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(NASA-TM-84998) THE HARD X-RAY ECST  
SPECTROMETER EVENT LISTING 1980, 1981 AND  
1982 (NASA) 143 p HC A07/PF A01 CSCI 03B

N83-24455

Unclas  
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## Technical Memorandum 84998

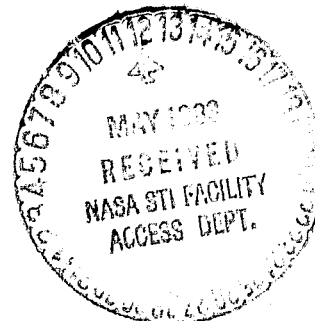
# The Hard X-Ray Burst Spectrometer Event Listing 1980, 1981 and 1982

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**MARCH 1983**

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1980, 1981 and 1982

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## The Hard X-Ray Burst Spectrometer Event Listing

### 1. Introduction

This event listing is a comprehensive reference for the hard X-ray bursts detected with the Hard X-Ray Burst Spectrometer (HXRBS) on the Solar Maximum Mission (SMM) from the time of launch on February 14, 1980 to March, 1983. It is a revised and updated version of the previous HXRBS Event Listing issued as NASA Technical Memorandum 83925 in April 1982. This document completely supercedes that earlier listing. An additional table after the main listing gives the largest events detected with peak counting rates greater than 10,000 counts  $s^{-1}$ .

Over 6300 events were detected during the three years of operation covered by this listing. Histograms of the numbers of events recorded each day in 1980, 1981 and 1982 are shown in Figure 1. They reflect the changing solar activity. Many of the events detected in 1980 are also included in the Solar Maximum Mission Event Listing (Pryor et al., 1981), and the reader is referred to that catalog for more extensive data on those events. Nearly all of the events in this listing are solar flares. Perhaps ten are non-solar gamma-ray bursts and ~ 180 probably resulted from passage through regions of trapped charged particles.

The duty cycle for the detection of solar flares was about 60% as a result of the circular SMM orbit with an altitude of 500 km and an inclination of 33°. The orbital period is 95 minutes with 60-65 minutes in the sun and the remainder behind the earth. On 7 or 8 orbits per day, 5 to 30 minutes of data are lost as the satellite passes through the high charged-particle fluxes in the South Atlantic Anomaly and the HXRBS high voltage power supplies are commanded off.

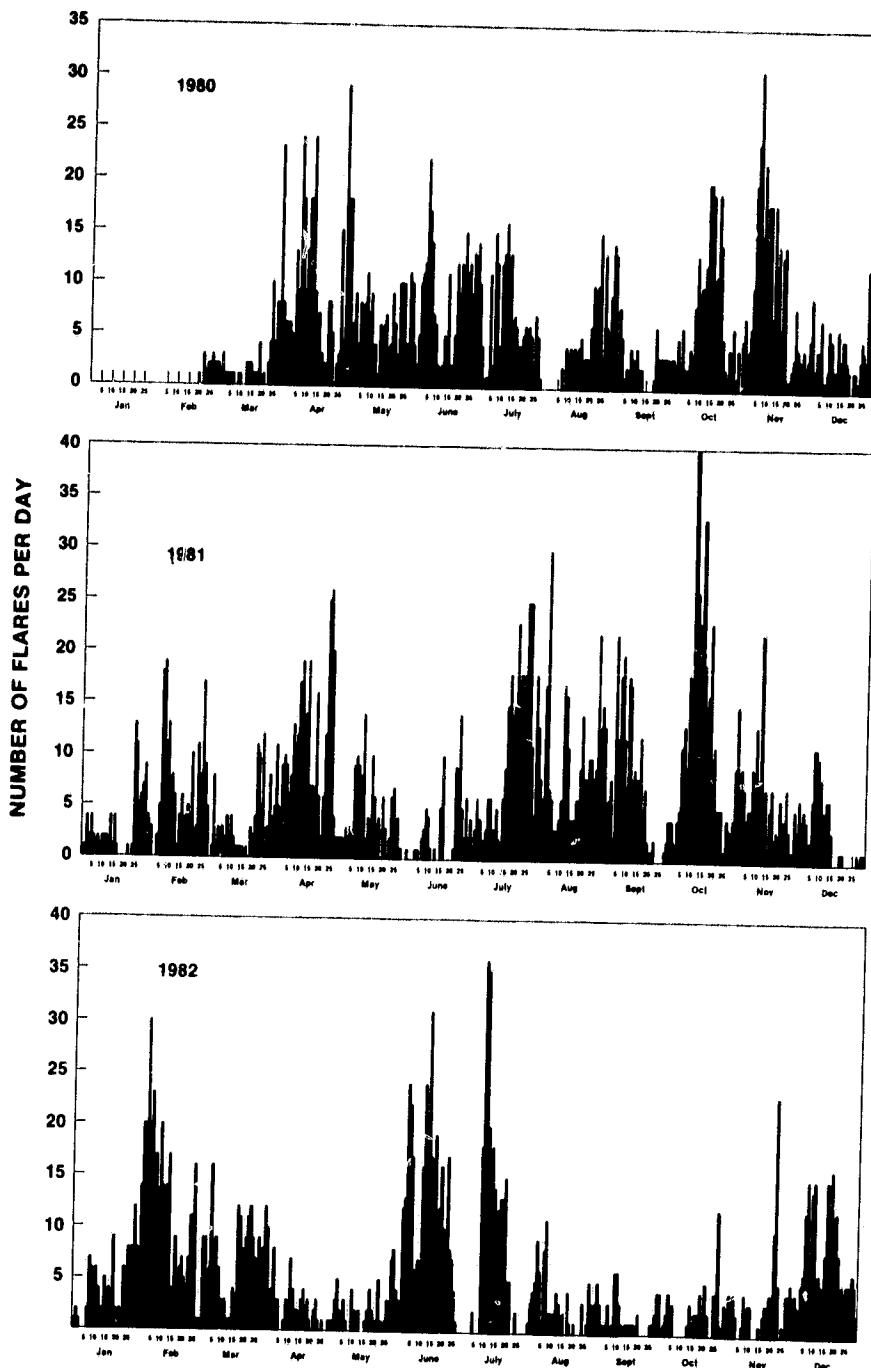


FIGURE 1: The number of flares observed each day with the HXRBS during 1980, 1981, and 1982. The numbers may differ slightly from the number of events in the listing since only flares discovered within 24 hours of their occurrence are included in this plot.

The HXRBS was turned off occasionally for longer intervals as a result of satellite difficulties. The two longest intervals were July 29 at 2100 to August 1 at 1500 UT and December 22 at 1800 to the 23 at 2000, both in 1980. All other off times were less than 24 hours in duration.

## 2. Instrumentation and Data Collection

The HXRBS has been described in detail by Orwig et al. (1980), and the reader is referred to that paper for a description of the X-ray detector and its various modes of operation. Briefly, the X-ray detector is an actively-shielded CsI(Na) scintillation crystal with a sensitive area of  $71 \text{ cm}^2$  and a circular field of view with a  $40^\circ$  FWHM. Thus, the whole sun is observed with no spatial information. With such a wide field of view, even the failure of the SMM fine pointing capability on November 25, 1980, did not seriously degrade the HXRBS flare observations. After this time the detector axis drifted as much as  $10^\circ$  from the sun but the only effect on the solar observations was a reduction in sensitive area of less than 25%.

The basic scientific data from the HXRBS consists of the counting rate recorded every 128 ms in each of 15 pulse-height channels. In-orbit calibration data showed that these channels covered the energy-loss range from 25 to 440 keV immediately after launch and then drifted slowly to higher energies since that time. This gradual change in range is documented in Table 1 where the best estimates of the energies of the channel edges are given for the 15th of each month from launch through 1982 and the predicted values through 1983. Note that the channel edges are significantly different from those given by Orwig et al. (1980).

In addition to these spectral data, an on-board circulating 32K-word memory stored count-rate data for the bigger flares with finer time resolution. The

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TABLE 1

The energy loss in the central detector corresponding to the edges of the 15 pulse-height channels of the HXRBS on the fifteenth day of each month from February, 1980 to December, 1983.

CHANNEL #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1980																
FEBRUARY	25.0	29.2	49.4	70.2	91.7	113.6	135.6	158.9	183.0	208.9	234.4	261.1	289.9	318.7	348.9	438.3
MARCH	25.9	30.4	51.3	72.9	95.2	117.9	140.8	165.0	190.0	216.9	243.3	271.1	301.0	330.9	362.3	435.0
APRIL	26.6	31.2	52.7	74.9	97.8	121.1	144.6	169.4	195.1	222.8	249.9	278.4	309.1	339.8	372.1	457.3
MAY	27.2	31.8	53.7	76.3	99.6	123.5	147.4	172.7	198.9	227.1	254.7	283.8	315.0	346.4	379.3	463.4
JUNE	27.6	32.3	54.5	77.5	101.2	125.4	149.7	175.5	202.1	230.7	258.8	288.3	320.1	351.9	385.2	433.9
JULY	27.9	32.7	55.2	78.5	102.5	127.0	151.6	177.7	204.6	233.7	262.1	292.0	324.2	356.4	390.2	490.1
AUGUST	28.3	33.1	55.9	79.4	103.7	128.5	153.4	179.7	206.9	236.3	265.1	295.3	327.8	360.4	394.6	495.7
SEPTEMBER	28.5	33.4	56.4	80.2	104.7	129.7	154.9	181.5	209.0	238.6	267.7	298.2	331.0	364.0	398.5	500.5
OCTOBER	28.8	33.7	56.9	80.9	105.6	130.8	156.2	183.0	210.8	240.7	269.9	300.7	333.8	367.1	401.9	504.8
NOVEMBER	29.0	33.9	57.3	81.5	106.4	131.9	157.4	184.5	212.4	242.6	272.1	303.1	336.5	369.9	405.1	508.7
DECEMBER	29.2	34.2	57.7	82.1	107.2	132.8	158.5	185.7	213.9	244.2	274.0	305.2	338.8	372.5	407.9	512.3
1981																
JANUARY	29.4	34.4	58.1	82.6	107.9	133.6	159.5	187.0	215.3	245.8	275.7	307.2	341.0	374.9	410.5	515.6
FEBRUARY	29.6	34.6	58.5	83.1	108.5	134.5	160.5	188.1	216.6	247.3	277.4	309.1	343.1	377.2	413.0	518.7
MARCH	29.7	34.8	58.8	83.5	109.1	135.1	161.3	189.0	217.7	248.6	278.8	310.6	344.8	379.1	415.1	521.4
APRIL	29.9	35.0	59.1	84.0	109.6	135.8	162.2	190.0	218.8	249.9	280.3	312.2	346.6	381.1	417.3	524.1
MAY	30.0	35.1	59.3	84.4	110.2	136.5	162.9	190.9	219.9	251.1	281.6	313.7	348.3	382.9	419.3	526.6
JUNE	30.2	35.3	59.6	84.7	110.7	137.1	163.7	191.8	220.9	252.2	282.9	315.2	349.9	384.7	421.2	529.0
JULY	30.3	35.4	59.9	85.1	111.1	137.7	164.4	192.6	221.8	253.3	284.1	316.5	351.4	386.3	423.0	531.3
AUGUST	30.4	35.6	60.1	85.5	111.6	138.3	165.1	193.4	222.7	254.3	285.3	317.8	352.8	387.9	424.7	533.5
SEPTEMBER	30.5	35.7	60.4	85.8	112.0	138.8	165.7	194.2	223.6	255.3	286.4	319.1	354.2	389.4	426.4	535.6
OCTOBER	30.6	35.8	60.6	86.1	112.4	139.3	165.3	194.9	224.4	256.3	287.4	320.2	355.5	390.8	427.9	537.5
NOVEMBER	30.8	36.0	60.8	86.4	112.8	139.8	166.9	195.6	225.2	257.2	288.5	321.4	356.8	392.2	429.5	539.4
DECEMBER	30.9	36.1	61.0	86.7	113.2	140.3	167.4	196.2	226.0	258.0	289.4	322.4	357.9	393.5	430.9	541.2
1982																
JANUARY	31.0	36.2	61.2	87.0	113.6	140.7	168.0	196.9	226.7	258.9	290.4	323.5	359.1	394.8	432.3	543.0
FEBRUARY	31.1	36.3	61.4	87.3	113.9	141.2	168.5	197.5	227.4	259.7	291.3	324.5	360.2	396.1	433.6	544.7
MARCH	31.1	36.4	61.5	87.5	114.3	141.6	169.0	198.0	228.0	260.4	292.1	325.4	361.2	397.1	434.8	546.2
APRIL	31.2	36.5	61.7	87.7	114.6	142.0	169.5	198.6	228.7	261.1	292.9	326.3	362.3	398.3	436.1	547.7
MAY	31.3	36.6	61.9	88.0	114.9	142.4	169.9	199.1	229.3	261.8	293.7	327.2	363.2	399.4	437.3	549.2
JUNE	31.4	36.7	62.1	88.2	115.2	142.7	170.4	199.7	229.9	262.6	294.5	328.1	364.2	400.5	438.5	550.7
JULY	31.5	36.8	62.2	88.4	115.5	143.1	170.8	200.2	230.5	263.2	295.3	328.9	365.2	401.5	439.6	552.1
AUGUST	31.6	36.9	62.4	88.7	115.8	143.5	171.3	200.7	231.1	263.9	296.0	329.8	366.1	402.5	440.7	553.5
SEPTEMBER	31.6	37.0	62.5	88.9	116.1	143.8	171.7	201.2	231.7	264.5	296.7	330.6	367.0	403.5	441.8	554.9
OCTOBER	31.7	37.1	62.7	89.1	116.3	144.2	172.1	201.6	232.2	265.1	297.4	331.3	367.8	404.4	442.8	556.1
NOVEMBER	31.8	37.2	62.8	89.3	116.6	144.5	172.5	202.1	232.7	265.8	298.1	332.1	368.7	405.3	443.8	557.4
DECEMBER	31.9	37.3	63.0	89.5	116.9	144.8	172.8	202.5	233.2	266.3	298.7	332.8	369.5	406.2	444.8	558.6
1983																
JANUARY	31.9	37.3	63.1	89.7	117.1	145.1	173.2	203.0	233.7	266.9	299.4	333.5	370.3	407.1	445.7	559.9
FEBRUARY	32.0	37.4	63.2	89.9	117.4	145.4	173.6	203.4	234.2	267.5	300.0	334.3	371.1	408.0	446.7	561.0
MARCH	32.1	37.5	63.3	90.0	117.6	145.7	173.9	203.8	234.7	268.0	300.6	334.9	371.7	408.7	447.5	562.1
APRIL	32.1	37.6	63.5	90.2	117.8	146.0	174.3	204.2	235.2	268.5	301.2	335.6	372.5	409.5	448.4	563.2
MAY	32.2	37.6	63.6	90.4	118.0	146.3	174.6	204.6	235.6	269.0	301.8	336.2	373.2	410.3	449.3	564.3
JUNE	32.2	37.7	63.7	90.6	118.3	146.5	174.9	205.0	236.1	269.5	302.3	336.8	373.9	411.1	450.1	565.4
JULY	32.3	37.8	63.8	90.7	118.5	146.8	175.2	205.4	236.5	270.0	302.9	337.4	374.6	411.9	450.9	566.4
AUGUST	32.4	37.8	63.9	90.9	118.7	147.1	175.6	205.7	236.9	270.5	303.4	338.1	375.3	412.6	451.8	567.4
SEPTEMBER	32.4	37.9	64.1	91.1	118.9	147.3	175.9	206.1	237.3	271.0	304.0	338.7	375.9	413.3	452.6	568.4
OCTOBER	32.5	38.0	64.2	91.2	119.1	147.6	176.2	206.4	237.7	271.5	304.5	339.2	376.6	414.0	453.8	569.4
NOVEMBER	32.5	38.0	64.3	91.4	119.3	147.8	176.5	206.8	238.1	271.9	305.0	339.8	377.2	414.7	454.1	570.4
DECEMBER	32.6	38.1	64.4	91.5	119.5	148.1	176.8	207.1	238.5	272.4	305.5	340.4	377.8	415.4	454.8	571.3

\*Several different gain settings were used during March 1981 - see event listing.

number of counts with a pulse-height between the bottom edge of channel 1 and the top edge of channel 15 were recorded in each fine time interval,  $\Delta t$ . From launch to April 1982,  $\Delta t$  was 10 ms and data were obtained for a period of 2 minutes before and 3 minutes after the time during a flare when the counting rate exceeded a trigger level of 400-1000 counts  $s^{-1}$ . From April to June 1982  $\Delta t$  was 1 ms and after June 1982  $\Delta t$  has been set to 5 ms with a proportionately shorter length of time covered by the data before and after the flare trigger. Data for only one such interval could be stored each satellite day. The absolute time of all the counting rate data is known to an accuracy of a few milliseconds, thus allowing detailed comparisons with other coincident observations.

### 3. Event Detection

Most of the events in this listing were discovered in the HXRBS data within a day after the observation. An average of about 90% of the SMM data were received at the Experimenters Operations Facility at Goddard Space Flight Center a few hours after data transmission to the various ground stations. This percentage has, on occasion, dropped significantly during 1982. The HXRBS data were stripped from the total bit stream and stored on a large disc capable of holding 24 hours of data. The oldest 10 hours of data on the disc were automatically written onto a magnetic tape (at 800 bpi) every 10 hours and the tapes are kept as archival records. (After December 1980, the OBC words were dropped and the archive tapes contain 18 hours of data). The 24-hour data base was scanned each day for flares by plotting the counting rate in channel 2 as a function of time with 16s time resolution. Other rates from the different parts of the instrument were plotted on the same graph, and hard copies of

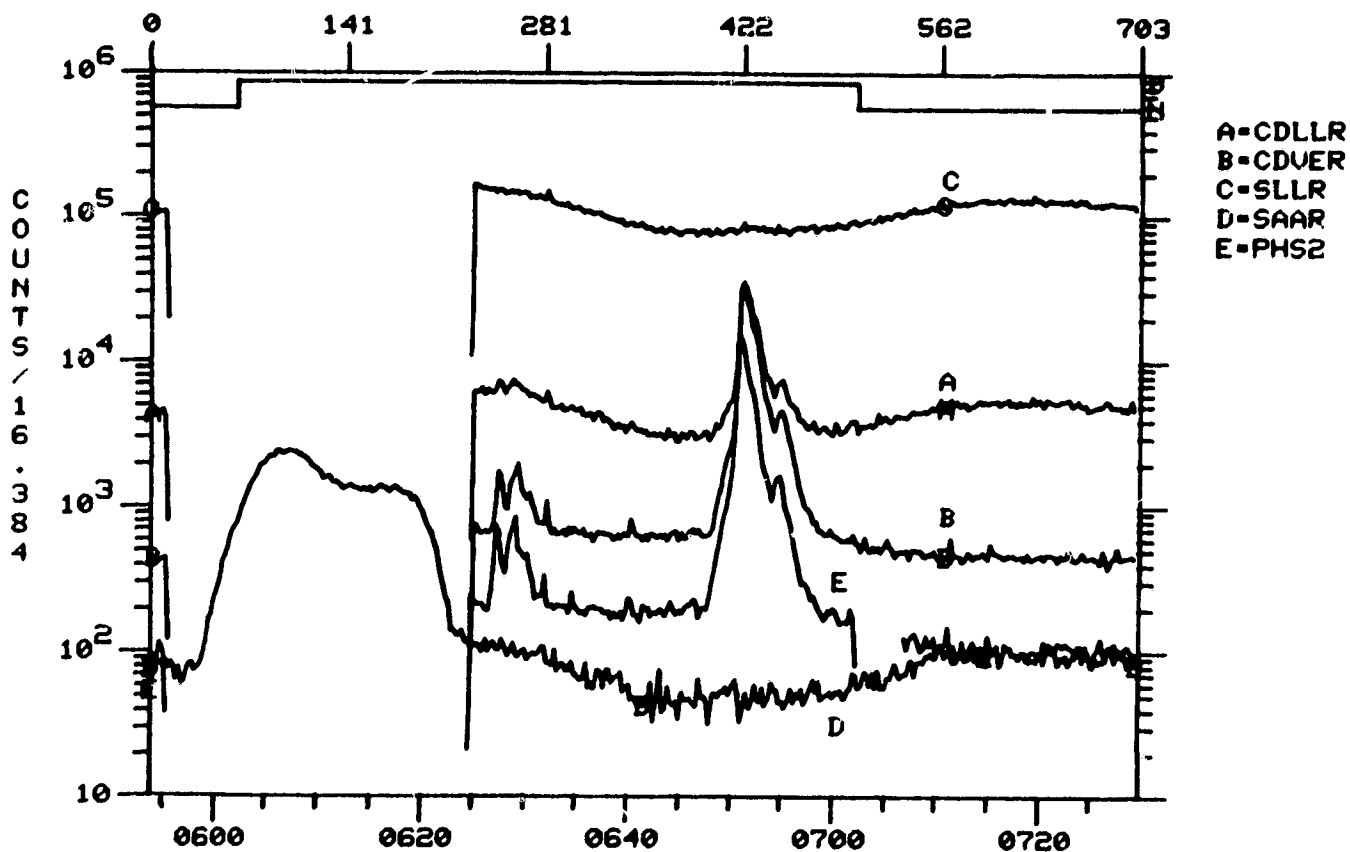


these housekeeping plots, one orbit per page, are saved as a permanent record. A typical example of such a plot for one orbit on 1980 November 6 is shown in Figure 2. Two flares can be seen in this plot during the satellite daytime part of the orbit. They are most clearly seen in the channel 2 rate marked 'E' but they are also evident in the other two central detector rates marked A and B. One flare starts at 0626 UT and is HXRBS event #1544 and the other starts at 0647 UT and is HXRBS event #1545. Any significant increase in the channel 2 counting rate above the average background level was examined with finer time resolution and recorded as an event unless it lasted for only one 128 ms interval. Such single-interval spikes are believed to be instrumental in origin and occur a few times per orbit on average. They most probably result from cosmic-ray interactions in the central detector which release so much energy that the anticoincidence electronics fails to completely reject the very large pulses generated. A flare which produces a 10% increase in counting rate lasting for a few seconds can be reliably detected above the  $\sim 12$  counts  $s^{-1}$  background rate in channel 2. This corresponds to a detection threshold level of  $\sim 10^{-3}$  photons  $cm^{-2} s^{-1} keV^{-1}$  at 30 keV.

Once an event has been discovered in this way a standard plot of counting rate versus time was made with the counts in all 15 channels added together. Generally, a time resolution of 1.024s was used for this plot with a time scale of 1 or 2 minutes per inch depending on the duration of the event. Hard copies of these plots are saved as a permanent record; an example is shown in Figure 3.

Each legitimate event is given a number, referred to as the HXRBS event number, that uniquely identifies the burst. The event numbers generally follow a chronological sequence as most events were identified within 24 hours of

SMM/HXRBS



DTIME=80/11/06, 0553:41.716 1ST MF= 443327 GRAN= 2 SF/MF= 64 CYC= 7  
 UTIME=80/11/06, 1340:03.480 TOT MF= 703 SARS=0927 SC1=8805

FIGURE 2: An example of a standard housekeeping plot containing counting rates versus Universal Time for one orbit. The following five counting rates, labelled A through E, are plotted with a time resolution of 16.384 s: A and B are central detector counting rates, C is a shield rate, D is the charged-particle rate, and E is the counting rate of X-ray events in pulse-height analyser channel #2. The double-peaked curve in the plot between 0600 and 0620 UT is the charged-particle rate in the South Atlantic Anomaly, when the high voltages were turned off and the other rates go to zero. The horizontal straight lines at two levels near the top of the plot indicate the day (upper line) and night (lower line) parts of the orbit.

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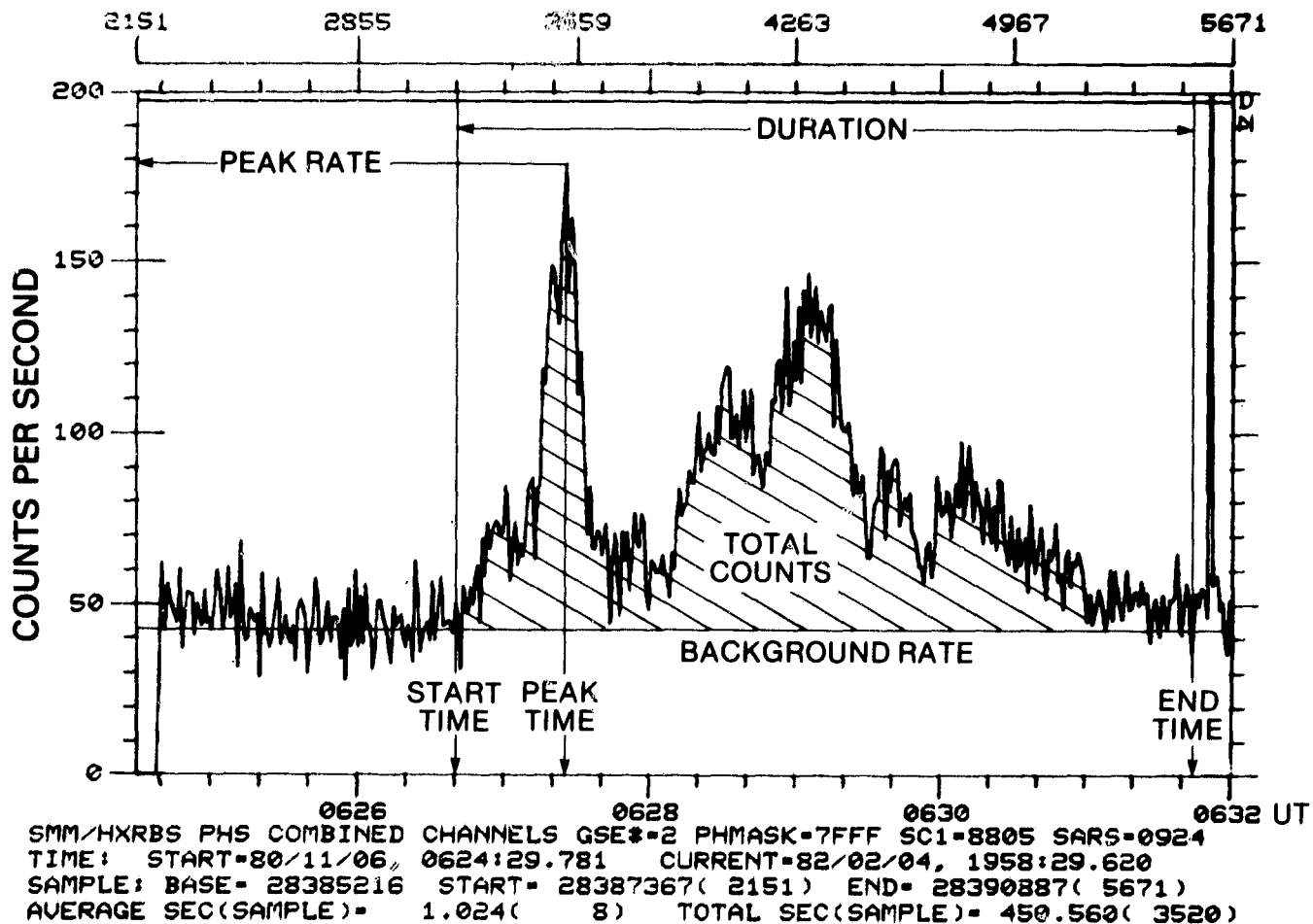


FIGURE 3: A standard plot of a hard X-ray burst (HXRBS event #1544) showing the rate of counts in channels 1 through 15 versus Universal Time. The time resolution is 1.024 s, the time scale is 1 inch per minute, and the counting rate is corrected for instrumental dead time. The start time, peak time, duration, peak rate and total number of counts are indicated as they are determined for inclusion in the event listing.

their occurrence. A few bursts, however, were only discovered several months later upon scanning through the complete data set provided on magnetic tape by the Information Processing Division (IPD) at GSFC. These IPD flares are marked in the listing with the letter "I", and their event numbers are generally out of sequence. A complete search of the IPD tapes has been made up until May 1981 but considerable gaps still exist after that time. Consequently, while this listing includes all events detected in 1980, many more events detected after that time are not included.

#### 4. The Event Listing

The HXRBS event number, the start time, the peak time and the duration are given for every event in the listing. These times are generally accurate to  $\sim 5$  s. The peak counting rate summed over all 15 channels is also listed. This rate was obtained from a rate-versus-time plot with a time resolution of 1.024 s. It is the total rate, as indicated in Figure 3; it is not the rate above the pre-flare background level of  $\sim 40$  counts  $s^{-1}$ . The highest channel number showing any increase in rate is also listed to give an idea of the X-ray spectral hardness of the event. This highest channel number is only approximate and is generally recorded as 2,5,10 or 15. The energy losses in the CsI(Na) detection crystal corresponding to these channels can be obtained from Table 1.

For the larger flares, i.e. those with peak rates exceeding 100 counts  $s^{-1}$  and/or durations of greater than 200 s, the total number of counts above the preflare background recorded during the flare is also listed. This gives an indication of the overall size of the burst. The data for these larger flares were written to individual files on flare tapes, numbered FTnnn. The tape number

(nnn) and file number are included in the listing for easy access to the data.

The event listing is arranged in chronological order with one line per event. Each column is labelled at the top of each page with the following column headings:

1. HXRBS EVENT# - a number assigned to each flare to uniquely identify it. An asterisk preceding the event number indicates that a note about that event is included at the end of the listing.
2. DOY - the day of the year in which the flare occurred with January the first as day one.
3. DATE expressed as year/month/day.
4. START TIME expressed as hour minute:second.
5. DURATION of the event in seconds.
6. PEAK RATE in counts per second. This is the total rate in the full energy range covered by the instrument and does not have the preflare background rate subtracted (see Figure 2).
7. TOTAL COUNTS detected by the HXRBS during the flare above the preflare rate (see Figure 2).
8. NOAA REGION #. A more complete listing of these region numbers for the 1980 events is given in the SMM Event Listing (Pryor et al. 1981).
9. MAX. CH.# - the highest channel showing any increase in rate during the flare. See Table 1 for the energy range of each channel.
10. FLARE TAPE #, FILE #- the tape and file numbers identifying the location of the event data on the HXRBS flare tapes.

11. NOTES. The meaning of the letters in this column are as follows:

M	Memory data available with $< 10$ ms time resolution.
I	Discovered later, in data provided by the Information Processing Division.
SN	Started in spacecraft night.
EN	Ended in spacecraft night.
IN	Interrupted by spacecraft night.
SA	Started when the SMM was in the South Atlantic Anomaly (SAA).
ES	Ended when the SMM was in the SAA.
IS	Interrupted by the SAA.
SG	Started in a data gap.
EG	Ended in a data gap.
DG	Data gap during event.
AX	Probably the result of passage through trapped charged particles.
ND	Noisy data.

A separate table of the largest events detected with peak counting rates greater than  $10,000 \text{ counts s}^{-1}$  is included in this document after the main listing. This table is in chronological order and is included for quick reference to the big events.

### Acknowledgements

The HXRBS was made possible by the efforts of many people previously acknowledged by Orwig et al. (1980). We are grateful to Tom Chewing, who was primarily responsible for the basic design and implementation of the computer system used for data collection and analysis. The following students contributed significantly to the collection of the data in this flare index: John Bonomo, Kathryn Lesh, Maya Yodh, Bob Hindsley, and Shawna Brooks. We are also grateful to Gloria Wharen for preparing the introduction to this document and to our Sperry-Univac V-77 minicomputer for processing and printing the event listing.

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- Pryor, L.H., Pierce, M.J., Speich, D.M., Fesq, L.M., Spear, K.A., Nelson, J.J., and McGovern, J.G. 1981, Solar Maximum Mission Event Listing, Internal document, NASA, GSFC.

THE HXRBS EVENT LISTING

2 February 1980 to 11 April 1983

Note that the X-ray counting rate time profiles with 1s resolution are available on microfiche for most of the events in this index. One plot is given for each event showing the total counting rate integrated over the full energy range of the instrument as a function of Universal Time. Copies of these microfiche can be obtained from the authors or from the National Space Science Data Center, Code 601, NASA/GSFC, Greenbelt, MD 20771.



HXRBS EVENT LISTING 83/04/14, 2337:19.400

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOVA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1	50	80/02/19	0746:50	0749:35	522	177	20080	2287		1, 1	
2	52	80/02/21	0321:21	0322:00	77	210	13967	2287		1, 2	
4	52	80/02/21	0447:03	0447:38	51	67				1, 3	
3	52	80/02/21	1712:40	1712:45	40	65		2287		1, 4	
5	53	80/02/22	1902:00	1904:35	180	145	3817	2292			
6	55	80/02/24	0506:44	0508:20	170	184				1, 6	
7	55	80/02/24	0918:10	0919:14	75	99				1, 7	
8	56	80/02/25	1715:20	1716:50	160	68				1, 8	
9	56	80/02/25	2202:20	2202:40	30	78				1, 9	
11	57	80/02/26	0027:05	0027:25	30	242		2294		1, 11	ES
10	57	80/02/26	0320:50	0321:30	90	88		2296		1, 10	
12	57	80/02/26	1859:00	1900:10	160	77		2296		1, 12	
13	58	80/02/27	0338:40	0341:50	190	227		2296		1, 13	EN
14	58	80/02/27	1303:30	1304:30	60	62	705				
15	58	80/02/27	2238:10	2238:15	15	60				1, 15	
16	59	80/02/28	0116:55	0117:00	10	66				1, 16	
17	59	80/02/28	1412:20	1412:27	15	58				2, 1	
18	60	80/02/29	0733:10	0733:46	60	176	3091			2, 2	
19	62	80/03/02	0306:48	0306:52	50	84		2314		2, 3	
20	62	80/03/02	0446:10	0446:40	100	56				2, 4	
21	62	80/03/02	1905:20	1905:40	45	160		2309		2, 5	
22	63	80/03/03	2050:25	2051:30	90	160				2, 6	
23	64	80/03/04	0121:53	0122:02	150	90	1273			2, 7	
24	65	80/03/05	2207:10	2208:20	70	55	270			2, 8	
25	65	80/03/05	2330:40	2331:00	330	99	7487			2, 9	
26	66	80/03/06	0419:00	0421:20	420	100	6370			2, 10	
27	67	80/03/07	0507:40	0508:25	47	129	1690			2, 11	
28	69	80/03/09	0435:50	0436:30	170	65	847			2, 12	
29	70	80/03/10	2226:20	2227:10	160	62	510	2326		2, 13	
4271	73	80/03/13	1445:20	1445:45	220	138	15000		5	143, 13	I
31	73	80/03/13	2158:00	2201:20	540	105	13800			2, 15	AX
32	74	80/03/14	1113:50	1114:00	50	71	100			3, 1	
33	74	80/03/14	2156:10	2158:00	660	119				3, 2	AX
4272	75	80/03/15	2017:35	2020:15	235	76			5	143, 14	I
34	75	80/03/15	2155:16	2156:57	540	120	16114			3, 3	AX
36	76	80/03/16	2016:09	2018:47	540	80				3, 5	AX
37	77	80/03/17	1445:47	1446:20	60	95	741			3, 6	
38	78	80/03/18	2324:30	2325:00	100	70	100			3, 7	
39	79	80/03/19	0319:20	0319:40	40	72				3, 8	
40	79	80/03/19	0805:45	0806:40	145	4460			9	3, 9	M
41	79	80/03/19	1436:30	1440:20	370	135		2339		3, 11	
42	79	80/03/19	1736:00	1737:20	320	130	5300			3, 12	
43	81	80/03/21	0134:55	0135:20	45	64				3, 13	
4266	81	80/03/21	1356:20	1356:40	180	68			2		I
44	83	80/03/23	1658:10	1658:10	600	95		2339	3	3, 14	SN
45	83	80/03/23	1921:00	1921:40	100	180	2660			3, 15	
46	84	80/03/24	0804:30	0805:20	75	490	12800			4, 1	
47	84	80/03/24	1358:05	1358:25	40	370	2261			4, 2	
48	84	80/03/24	1528:40	1529:00	40	120	1106			4, 3	
30	84	80/03/24	1535:40	1536:00	70	75				4, 3	
49	85	80/03/25	0124:00	0124:30	60				2	4, 4	

SUMMARY OF  
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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
50	85	80/03/25	0149:30	0149:50	270	130	2392	2341	3	4, 5	
51	85	80/03/25	0426:00	0428:30	190	520	25760	2339	8	4, 6	
52	85	80/03/25	0449:37	0449:40	30	78			3	4, 6	
53	85	80/03/25	1350:00	1353:00	240	65	1622	2358	2	4, 7	
54	85	80/03/25	1405:10	1405:27	30	63	254	2342	2	4, 7	
55	85	80/03/25	1716:40	1717:40	130	265	5800	2359	7	4, 8	
56	85	80/03/25	1924:30	1924:35	40	110			3	4, 9	
59	85	80/03/25	2043:00	2050:20	1080	80	5538	2351	2	4, 12	
57	85	80/03/25	2200:50	2203:00	100	95			3	4, 10	
58	86	80/03/26	0002:30	0007:20	400	700			11	4, 11	
60	86	80/03/26	1419:50	1421:03	160	400			8	4, 13	ND
61	86	80/03/26	2202:30	2205:10	300	60		2363	2	5, 1	
62	86	80/03/26	2338:00	2338:45	240	90		2351	3	5, 2	
63	87	80/03/27	0413:00	0419:20	1000	78		2363	2	5, 3	SA
64	87	80/03/27	0740:30	0741:20	60	110			3	5, 4	
65	87	80/03/27	0950:30	0951:20	110	79	1424		2	5, 5	
66	87	80/03/27	1045:20	1045:30	220	92	2188		3	5, 6	
67	87	80/03/27	1217:00	1259:00	3120	700	3.70E+05	2363	11	5, 7	EN
68	87	80/03/27	1837:30	1839:20	1080	6000	3.25E+05		11	5, 8	
69	87	80/03/27	2030:10	2030:40	100	260			7	5, 9	
70	87	80/03/27	2146:00	2146:20	40	400	4400		6	5, 10	
71	88	80/03/28	0636:20	0638:20	180	71	1080		2	5, 11	
72	88	80/03/28	0911:40	0912:10	80	94	1040		4	5, 12	
73	88	80/03/28	0947:50	0948:50	70	85	700		4	5, 13	
74	88	80/03/28	0954:20	0956:30	160	4100	1.20E+05		12	5, 13	M
75	88	80/03/28	2007:50	2008:20	720	65		2360	2	6, 1	SN
76	88	80/03/28	2053:20	2053:55	100	170	4162	2357	4	6, 2	
77	88	80/03/28	2157:20	2159:10	500	3000	2.57E+05	2357	12	6, 3	
78	89	80/03/29	0109:00	0111:00	360	77	19.6	2363	3	6, 4	
79	89	80/03/29	0125:00	0125:30	120	70			2	6, 4	
80	89	80/03/29	0329:10	0329:30	150	280	3031	2357	6	6, 5	
81	89	80/03/29	0436:50	0437:20	50	100	508		2	6, 6	
82	89	80/03/29	0446:40	0447:00	30	97	410		3	6, 6	
83	89	80/03/29	0554:50	0555:40	290	109	3038		4	6, 7	
84	89	80/03/29	0603:50	0604:10	40	140	600		4	6, 7	
85	89	80/03/29	0735:50	0736:15	160	900	27528		6	6, 8	M
86	89	80/03/29	0815:30	0816:43	90	135	1167		3	6, 9	
87	89	80/03/29	0917:00	0918:13	210	19000	2.50E+05	2363	15	6, 10	M
88	89	80/03/29	0940:05	0941:23	150	680	15852		6	6, 10	
89	89	80/03/29	0954:40	0955:15	100	8000	1.20E+05		15	6, 10	EN
90	89	80/03/29	1042:30	1042:40	40	56	598		2	6, 11	
91	89	80/03/29	1207:50	1208:10	50	71	377		2	6, 12	
92	89	80/03/29	1216:40	1217:00	30	96			2	6, 12	
93	89	80/03/29	1419:00	1420:10	170	93			4	6, 13	
94	89	80/03/29	1443:00	1443:55	80	108	2396		3	6, 14	EN
95	89	80/03/29	1521:00	1521:40	90	63	957		2	6, 15	
96	89	80/03/29	1729:20	1729:25	150	95			2	6, 16	
97	89	80/03/29	1854:50	1855:00	20	55			2	6, 17	
98	89	80/03/29	2014:10	2014:42	70	385	4375		4	6, 18	
99	89	80/03/29	2040:00	2041:40	240	210	6930		3	6, 19	
100	89	80/03/29	2046:00	2048:50	330	125	7299		3	6, 19	
101	90	80/03/30	0005:40	0006:10	50	90	563	2351	2	7, 1	
102	90	80/03/30	0252:35	0252:45	20	57	806		3	7, 2	

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
103	90	80/03/30	0302:20	0302:40	110	140	2970		3	7, 2	
104	90	80/03/30	0322:20	0322:35	30	82	390		3	7, 2	
105	90	80/03/30	0749:15	0750:00	55	62	470		2	7, 3	
106	90	80/03/30	1525:00	1525:40	100	134	1980		4	7, 4	
107	90	80/03/30	1841:10	1841:50	300	194			5	7, 5	ND
108	90	80/03/30	2049:15	2049:45	55	190	1416		6	7, 6	
109	91	80/03/31	0115:35	0117:40	140	210	1933		5	7, 7	
110	91	80/03/31	1123:40	1124:10	60	500	6761		6	7, 8	
35	91	80/03/31	1129:10	1129:30	75	280	2615			7, 8	
111	91	80/03/31	1705:15	1705:22	13	82	92		4	7, 9	
204	91	80/03/31	1706:40	1707:04	64	130	1049		4	7, 9	
880	91	80/03/31	1708:30	1708:39	40	1131			7	7, 9	
112	92	80/04/01	0300:25	0300:50	50	70	240		2	8, 1	
113	92	80/04/01	0943:10	0943:40	98	70	1190		4	8, 2	
114	92	80/04/01	1524:25	1525:45	245	200	12800		5	8, 3	
115	92	80/04/01	1539:55	1541:05	200	72	1240		2	8, 3	
116	92	80/04/01	2007:00	2018:30	720	110			2	8, 4	
117	92	80/04/01	2159:20	2200:00	150	72	819			8, 5	
118	93	80/04/02	0254:40	0255:00	40	78	295		2	8, 6	
119	93	80/04/02	0416:10	0416:40	340	160	3604	2363	4	8, 7	
120	93	80/04/02	0902:20	0903:35	160	380	13005	2363	6	8, 8	
121	93	80/04/02	1121:00	1121:30	70	950	11245	2363	6	8, 9	M
122	93	80/04/02	1659:30	1702:40	320	320	13940		4	8, 11	
123	93	80/04/02	1724:15	1724:30	35	49	400		2	8, 12	
124	93	80/04/02	2022:00	2024:15	190	72	1450		2	8, 13	
125	94	80/04/03	0117:00	0117:50	720	950			5	8, 14	
126	94	80/04/03	0633:20	0638:00	500	340	33300		7	8, 15	
127	94	80/04/03	0716:30	0719:05	960	1830	3.00E+05		12	8, 16	M
128	94	80/04/03	0758:30	0758:25	15	77	264		3	8, 17	
129	94	80/04/03	2039:40	2040:20	60	140	10000	2359	3	9, 2	
130	95	80/04/04	0721:40	0722:00	30	105			2	9, 3	
131	95	80/04/04	0858:50	0858:50	30	100				9, 4	
132	95	80/04/04	1101:30	1105:30	420	100				9, 5	
133	95	80/04/04	1515:50	1517:45	2160	600	2.64E+05	2363		9, 6	SN,ES
134	95	80/04/04	1654:55	1655:06	89	97	1350		2		ND
135	95	80/04/04	2156:20	2156:50	100	105		2362	4	9, 7	AX
136	96	80/04/05	0008:50	0009:25	60	880		2363	6	9, 8	M
137	96	80/04/05	0146:35	0146:47	37	90			5	9, 10	
138	96	80/04/05	0424:57	0425:40	73	80			2	9, 11	
139	96	80/04/05	0553:20	0556:30	910	87	13650	2372	2	9, 12	
140	96	80/04/05	0810:50	0810:57	30	90			2	9, 13	
141	96	80/04/05	0944:10	0944:30	180	150			4	9, 14	
142	96	80/04/05	1039:50	1041:30	410	460	15580		8	9, 15	
143	96	80/04/05	1111:20	1113:20	260	65			2	9, 16	
144	96	80/04/05	1541:30	1551:10	630	2100		2372		9, 17	M,ES
145	96	80/04/05	1710:00	1710:55	240	85			2	10, 1	
146	96	80/04/05	1849:45	1851:30	155	180	3500		4	10, 2	
147	96	80/04/05	2007:20	2008:40	160	80			2	10, 3	AX
148	96	80/04/05	2143:00	2145:15	720	110			2	10, 4	AX
149	97	80/04/06	0324:25	0325:35	105	88	450		2	10, 5	
150	97	80/04/06	0404:00	0413:20	2100	2360	7.28E+05		10	10, 6	M
151	97	80/04/06	0604:20	0605:00	120	80	710		2	10, 8	
152	97	80/04/06	0611:40	0612:35	100	175	5500		4	10, 8	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
153	97	80/04/06	0716:30	0748:20	2200	95	15122		3	10, 9	
154	97	80/04/06	1223:35	1225:10	320	78	2280		2	10, 10	
155	97	80/04/06	1350:40	1351:40	290	84	4260		10	10, 11	
156	97	80/04/06	1433:40	1434:30	260	2000	2.76E+05		10	10, 12	M, SA, EN
157	97	80/04/06	1539:20	1541:25	600	900	1.54E+05		3	10, 13	M
158	98	80/04/07	0050:00	0052:30	2000	430	2.90E+05		4	10, 14	EN
159	98	80/04/07	0129:20	0129:55	50	93	990		2	10, 14	
160	98	80/04/07	0139:10	0139:28	30	510	4669		6	10, 14	
161	98	80/04/07	0319:30	0320:05	70	83	1229			10, 15	
162	98	80/04/07	0401:30	0401:30	700	89	9830			10, 16	SN
163	98	80/04/07	0458:10	0500:00	200	77	778			10, 17	
164	98	80/04/07	0537:40	0538:15	1800	2300	6.10E+05			10, 18	M, SN
165	98	80/04/07	0540:35	0540:48	100	1970				10, 18	
166	98	80/04/07	0553:55	0555:40	165	370	8612			10, 18	
167	98	80/04/07	0603:40	0604:50	150	105	4465		2	10, 18	
168	98	80/04/07	0720:10	0720:45	50	60			2	11, 1	
169	98	80/04/07	1033:40	1034:50	120	130	3441		3	11, 2	
170	98	80/04/07	1220:50	1221:10	60	62	115		2	11, 3	
171	98	80/04/07	1243:50	1244:20	60	79	1786		2	11, 4	
172	98	80/04/07	1254:10	1254:30	40	170	999		3	11, 4	
173	98	80/04/07	1341:40	1342:20	120	54	1024		2	11, 5	
174	98	80/04/07	1652:00	1652:24	50	230	2773		2	11, 6	
175	98	80/04/07	1655:50	1656:10	40	105	1393		2	11, 6	
176	98	80/04/07	1840:50	1843:55	320	495	36370		3	11, 7	
177	98	80/04/07	2009:10	2009:25	40	70	336		2	11, 8	
178	98	80/04/07	2153:30	2153:35	10	108	290		4	11, 9	
179	98	80/04/07	2325:40	2327:35	200	70	973		2	11, 10	
180	98	80/04/07	2354:10	2354:30	30	96	1660		2	11, 11	
181	98	80/04/07	2359:25	2359:30	40	80	1100		2	11, 11	
182	99	80/04/08	0115:20	0117:40	540	190	13000		4	11, 12	
183	99	80/04/08	0131:10	0131:30	58	82	290		2	11, 13	
184	99	80/04/08	0140:10	0140:28	30	180	1124		2	11, 14	
185	99	80/04/08	0146:50	0147:30	55	105	737		2	11, 14	M
186	99	80/04/08	0238:10	0238:40	280	37			2	11, 15	
187	99	80/04/08	0259:15	0305:00	1525	3800	5.40E+05		6	11, 16	EN
188	99	80/04/08	0320:00	0320:30	60	90	967		2	11, 16	
189	99	80/04/08	0730:50	0731:40	90	75			2	11, 17	
190	99	80/04/08	0923:50	0924:30	80	70	664		2	11, 18	
191	99	80/04/08	0931:00	0931:10	30	67	277		2	11, 18	
192	99	80/04/08	1050:30	1051:30	140	75	1470		2	11, 19	
193	99	80/04/08	1215:30	1215:34	12	40			2	12, 1	
194	99	80/04/08	1218:00	1219:40	210	210			5	12, 1	
195	99	80/04/08	1230:30	1231:00	70	120			3	12, 1	
196	99	80/04/08	1532:45	1532:50	15	60	175		2	12, 2	
197	99	80/04/08	1702:50	1703:15	40	63	284		2	12, 3	
198	99	80/04/08	2155:10	2155:20	35	123	827		3	12, 4	
199	99	80/04/08	2206:00	2206:10	40	70	369		2	12, 5	
200	100	80/04/09	0128:00	0129:30	600	70			2	12, 8	
201	100	80/04/09	0359:25	0402:30	200	100	639		2	12, 6	SN
202	100	80/04/09	0409:20	0411:10	110	130	2482		2	12, 6	
203	100	80/04/09	0445:30	0445:50	40	66	319		2	12, 7	
4273	100	80/04/09	0757:40	0758:45	250	127	2438		2	143, 15	I
205	100	80/04/09	0807:15	0809:10	220	64			2	12, 9	

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HRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
4274	100	80/04/09	1045:40	1046:05	55	120	4300		5	143, 16	I
206	100	80/04/09	1209:03	1209:13	50	122	1303		3	12, 10	DG
207	100	80/04/09	1212:40	1213:50	100	76	836		2	12, 10	
208	100	80/04/09	1705:48	1706:00	20	67			2		
209	100	80/04/09	1837:24	1837:42	30	71					
210	100	80/04/09	2156:09	2156:23	50	85					
211	101	80/04/10	0116:48	0117:00	75	90					
212	101	80/04/10	0124:30	0125:30	104	340	4939	2370	8	12, 11	
213	101	80/04/10	0237:50	0238:18	120	93		2377	2	12, 12	
214	101	80/04/10	0247:30	0248:40	150	140	6268	2370	2	12, 12	
215	101	80/04/10	0250:50	0251:18	100	385	6822	2370	6	12, 12	
216	101	80/04/10	0437:56	0438:05	190	38		2372	2		
217	101	80/04/10	0755:54	0757:32	720	90	4188		4	12, 13	
218	101	80/04/10	0800:10	0800:40	45	80			4	12, 13	
219	101	80/04/10	0916:00	0918:50	720	4400	3.00E+05	2372	8	12, 14	M
220	101	80/04/10	1024:10	1027:10	230	115	4131	2372	6	12, 15	AX
221	101	80/04/10	1251:34	1252:50	192	170	5358	2372	2	12, 16	
222	101	80/04/10	2013:25	2013:40	50	84			2		
223	101	80/04/10	2156:15	2157:50	230	91	3890	2375	2	13, 1	
224	102	80/04/11	0058:30	0058:50	115	85			2		
225	102	80/04/11	0126:15	0126:20	10	100			2		DG
226	102	80/04/11	0412:00	0416:05	320	210	14560		4	13, 2	M
227	102	80/04/11	0427:45	0428:50	170	150	4060		4	13, 2	
228	102	80/04/11	0533:20	0533:40	65	70			2		SN
229	102	80/04/11	0618:15	0618:40	85	70			2		
230	102	80/04/11	0630:15	0631:20	155	100			2	13, 4	M, EN
231	102	80/04/11	0850:00	0850:01	70	72			2		
232	102	80/04/11	0902:50	0907:10	490	180	23200		3	13, 5	
233	102	80/04/11	1105:15	1105:15	10	72			2		
234	102	80/04/11	1348:30	1350:10	205	1150	77000		6	13, 6	
235	102	80/04/11	1510:30	1511:15	130	265	10400		6	13, 7	
236	102	80/04/11	1702:55	1703:00	35	72			2		
237	102	80/04/11	1821:10	1821:40	360	260	11000		6	13, 8	
238	102	80/04/11	2033:25	2033:50	65	91			2		
239	102	80/04/11	2132:15	2142:50	800	480	10400		10	13, 9	
240	102	80/04/11	2202:55	2203:00	40	70			10		
241	102	80/04/11	2308:10	2310:50	530	360	32000		4	13, 10	SN
242	103	80/04/12	0054:10	0056:30	205	115	4640		2	13, 11	
243	103	80/04/12	0220:00	0220:30	85	66			2		
244	103	80/04/12	0454:00	0454:10	15	70			2		
245	103	80/04/12	0541:30	0541:40	130	490	7680		8	13, 12	
246	103	80/04/12	0552:00	0555:30	715	345	34100		6	13, 12	
247	103	80/04/12	0630:10	0630:50	75	43			2		
248	103	80/04/12	0846:15	0846:50	85	80			2		
249	103	80/04/12	0907:40	0920:40	1250	70	20000		2	13, 13	
250	103	80/04/12	0940:00	0940:05	22	140			3	13, 14	
251	103	80/04/12	1337:55	1338:25	210	76	2600	2373	2	13, 15	
252	103	80/04/12	1428:05	1428:15	200	145		2375	2	13, 16	DG, EG
253	103	80/04/12	1508:10	1508:30	85	60			2		
254	103	80/04/12	1524:20	1524:40	30	70			2		
255	103	80/04/12	1526:50	1527:00	30	58			2		
256	103	80/04/12	1645:00	1645:20	40	60			2		
257	103	80/04/12	1709:20	1709:35	20	75			2		

ORIGINAL COPY OF PEAK CATALOG

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
258	103	80/04/12	2014:40	2015:20	75	115			2	13, 17	
259	103	80/04/12	2307:00	2307:22	155	195	5977	2375	4	14, 1	SN
260	104	80/04/13	0228:50	0231:10	220	530	11103		8	14, 2	
261	104	80/04/13	0402:30	0405:20	990	800	60211		6	14, 3	M
262	104	80/04/13	0420:00	0420:40	180	100	1725		4	14, 3	
263	104	80/04/13	0453:00	0453:30	120	550	9683		5	14, 4	
264	104	80/04/13	0545:48	0545:54	50	115			4		
265	104	80/04/13	0546:30	0546:40	40	68			2		
266	104	80/04/13	0547:20	0547:26	33	82			4		
267	104	80/04/13	0900:20	0900:45	38	62			3	14, 5	
268	104	80/04/13	0902:00	0902:15	35	140	506		4	14, 5	
269	104	80/04/13	0903:20	0904:10	158	2006	34898		10	14, 5	M
270	104	80/04/13	0906:30	0906:45	30	85			2	14, 5	
271	104	80/04/13	0907:10	0907:32	55	75			2	14, 5	
272	104	80/04/13	0913:22	0913:34	22	73			4	14, 5	
273	104	80/04/13	1023:45	1023:58	75	260	2956		4	14, 6	
274	104	80/04/13	1111:50	1113:00	130	92			2		
275	104	80/04/13	1227:25	1229:42	234	490	11760		6	14, 7	
276	104	80/04/13	1239:45	1240:10	60	140	1052		5	14, 7	
277	104	80/04/13	1244:10	1247:20	200	87			4	14, 7	
278	104	80/04/13	1652:30	1653:20	120	54		2391	2		
279	104	80/04/13	1710:20	1711:30	100	82			3		
280	104	80/04/13	1851:00	1854:00	247	160	5825		4	14, 9	
281	104	80/04/13	2130:00	2134:00	315	90			2		SN, AX
282	104	80/04/13	2150:10	2150:52	110	96			2		
283	104	80/04/13	2315:00	2316:20	116	93			2		
284	105	80/04/14	0557:40	0557:50	40	57			2		
285	105	80/04/14	0715:50	0717:15	190	62			2		
286	105	80/04/14	1107:10	1107:30	36	62		2390	2		
287	105	80/04/14	1110:20	1111:50	145	102		2390	4		
288	105	80/04/14	1153:10	1153:40	60	170	1321	2377	4	14, 10	SN
289	105	80/04/14	2004:10	2005:10	260	420	13500	2390	10	14, 11	
290	105	80/04/14	2025:20	2028:35	280	115	2466	2375	4	14, 12	
291	105	80/04/14	2030:45	2033:40	280	105	4039		2	14, 12	
292	105	80/04/14	2136:00	2138:20	380	350	37724	2375	5	14, 13	
293	106	80/04/15	0547:30	0548:50	210	780	21791		10	14, 14	M
294	106	80/04/15	0851:20	0851:35	20	65					ND
295	106	80/04/15	1508:00	1510:25	700	19000	9.50E+05	2389	11	14, 16	M
296	107	80/04/16	0100:40	0103:30	270	108			3		ND
297	107	80/04/16	0115:20	0116:10	150				2		ND
298	107	80/04/16	0255:40	0256:00	30	91			2		
299	107	80/04/16	0402:00	0407:00	420	280			5	15, 1	ND
300	107	80/04/16	0538:00	0540:30	380	120	5358		3	15, 2	
301	108	80/04/17	0104:05	0105:15	80	77			2		
4267	108	80/04/17	0249:15	0250:30	145	76			5		I
302	108	80/04/17	0436:50	0437:50	185	75			2		
303	108	80/04/17	0622:15	0622:40	65	70			2		
304	108	80/04/17	1958:00	2005:30	540	91	3560		2	15, 3	
305	108	80/04/17	2314:10	2314:20	40	84			2		
306	109	80/04/18	0620:05	0626:20	205	75			2	15, 4	EN
307	109	80/04/18	2001:00	2003:05	270	220			4		
* 308	110	80/04/19	0119:45	0119:48	3	2500			15	15, 5	
309	110	80/04/19	0240:00	0240:40	90	140			2		

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
310	111	80/04/20	0108:10	0108:40	75	75			2		
311	111	80/04/20	0248:15	0248:25	145	105	1960	2396	3	15, 6	
312	111	80/04/20	1508:15	1508:20	15	90			3		
313	111	80/04/20	1553:55	1554:05	50	135	710		3	15, 7	
314	111	80/04/20	1956:05	1956:09	10	97		2404	2		
315	111	80/04/20	2019:40	2020:00	210	90			2		
316	111	80/04/20	2133:00	2137:10	540	60		2375	2		
317	111	80/04/20	2152:20	2152:55	60	60			2		
* 318	112	80/04/21	0308:04	0308:09	27	670	5622		15	15, 8	
319	112	80/04/21	0405:50	0407:00	120	70			2		
320	112	80/04/21	0539:27	0539:43	50	160	2327		5	15, 9	
321	112	80/04/21	0541:45	0542:07	50	540	5145		5	15, 9	
322	112	80/04/21	0542:56	0543:02	80	280	4702		5	15, 9	
323	112	80/04/21	0552:40	0553:40	110				2		
324	112	80/04/21	1827:15	1827:58	50	125	860		2	15, 10	
325	112	80/04/21	2306:00	2306:50	150	90			2		
326	113	80/04/22	0100:50	0101:20	50	80			2	15, 11	
327	113	80/04/22	0117:10	0118:30	120	112	5161	2396	2	15, 11	
328	113	80/04/22	0521:30	0521:41	150	92		2396	2		SN
329	113	80/04/22	0531:28	0531:50	30	60			2		
330	113	80/04/22	0714:20	0719:10	400	60			5		AX
331	115	80/04/24	0550:30	0557:40	450	270	6835		3	16, 1	
4262	115	80/04/24	0930:10	0930:55	207	112	2211		5	143, 8	I
332	115	80/04/24	1807:50	1809:30	135	77			2		
333	116	80/04/25	1102:00	1104:05	185	80			2		
334	116	80/04/25	1910:00	1910:05	10	65			2		
335	116	80/04/25	2040:40	2041:00	50	88			2		
336	117	80/04/26	0057:40	0101:00	380	83	5243		2	16, 2	
337	117	80/04/26	0106:30	0107:50	200	98	3154		2	16, 2	
338	117	80/04/26	0110:00	0115:40	700	65	1720		2	16, 2	EN
339	117	80/04/26	0345:00	0345:30	60	63		2411	2		
340	117	80/04/26	0348:00	0348:30	100	68		2411	2		
341	117	80/04/26	0602:10	0603:25	470	305	9011	2411	5	16, 3	
342	117	80/04/26	0720:12	0720:50	135	125	3572		2	16, 4	SA
343	117	80/04/26	0932:30	0934:05	120	86		2411	2		
344	117	80/04/26	1143:30	1144:45	200	135	7938	2407	2	16, 5	ES
345	117	80/04/26	1229:00	1229:06	25	305	1680		5	16, 6	M
346	117	80/04/26	1244:35	1245:55	100	78		2411	2	16, 7	EN
347	117	80/04/26	2030:43	2031:40	555	4200	2.09E+05	2411	12	16, 8	M
348	117	80/04/26	2136:29	2137:33	155	165	4420		4	16, 9	
349	117	80/04/26	2146:37	2147:30	53	83			4		
350	117	80/04/26	2333:52	2334:00	30	88			6		
351	118	80/04/27	0106:10	0106:28	30	59		2411	4		
352	118	80/04/27	0109:15	0109:50	58	58		2411	4		
353	118	80/04/27	0228:00	0229:15	340	235	14830		7	16, 10	
354	118	80/04/27	0250:50	0252:05	610	390	27400	2396	6	16, 11	
355	119	80/04/28	0132:57	0133:12	40	80			5		EN
356	119	80/04/28	0237:50	0238:00	30	54		2407	2		
357	119	80/04/28	0344:50	0344:55	10	160	530	2407	4	16, 12	
358	119	80/04/28	0546:20	0547:00	80	34			3		
359	119	80/04/28	0725:00	0725:10	20	104			3		
360	119	80/04/28	0900:30	0902:24	300	700	18830		8	16, 13	
361	119	80/04/28	0916:30	0917:15	90	60			2		

UNION...  
OF POOR QUALITY

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
362	119	80/04/28	0926:45	0927:10	55	60			2		
363	119	80/04/28	0928:50	0928:58	25	74			2		
364	119	80/04/28	1038:20	1038:30	20	140	836		4	16, 14	
365	119	80/04/28	1041:10	1041:30	80	110			4	16, 14	
4277	119	80/04/28	1227:05	1227:50	278		1235		2	16, 15	I
366	119	80/04/28	1235:10	1238:50	480	900	87217	2407	7	16, 15	EN
367	119	80/04/28	1546:10	1546:40	60	97			2		
368	119	80/04/28	1712:15	1712:35	120	80			2	17, 1	SA, AX
369	119	80/04/28	1714:40	1715:30	300	92			2	17, 1	
370	119	80/04/28	1724:00	1724:30	90	112	1433		2	17, 1	
371	119	80/04/28	1727:10	1727:40	300	146	2968		2	17, 1	EN
372	119	80/04/28	1752:00	1752:33	100	101			2		
373	119	80/04/28	2026:00	2026:20	30	63			2	17, 2	
374	119	80/04/28	2031:50	2032:30	50	125	1114		5	17, 2	DG
375	119	80/04/28	2039:35	2040:00	254	10964	1.17E+05		15	17, 2	DG
376	119	80/04/28	2117:30	2118:35	120	200	5926		5	17, 3	
377	119	80/04/28	2137:15	2138:56	110	82			2		
378	119	80/04/28	2143:20	2143:40	60	82			2		
379	119	80/04/28	2302:20	2302:40	180	122	3790		2	17, 4	
380	119	80/04/28	2332:30	2333:50	140	92					
381	119	80/04/28	2353:40	2354:07	60	110					
382	120	80/04/29	0031:00	0031:10	30	72					
383	120	80/04/29	0034:50	0034:58	20	94					
384	120	80/04/29	0348:15	0348:20	15	85					
385	120	80/04/29	0355:10	0355:50	120	264	4729		2	17, 5	
386	120	80/04/29	0406:40	0407:55	150	663	12647		10	17, 5	
387	120	80/04/29	0426:40	0427:45	140	90					
388	120	80/04/29	0742:10	0742:27	100	82					
389	120	80/04/29	1047:00	1049:40	180	94					
390	120	80/04/29	1105:10	1105:30	20	92					
391	120	80/04/29	1238:30	1239:30	130	144			2	17, 6	
392	120	80/04/29	1322:25	1322:35	15	120			2	17, 7	DG
393	120	80/04/29	1402:42	1403:02	30	300	3170		5	17, 8	
394	120	80/04/29	1718:50	1720:15	170	100			2		
395	120	80/04/29	1814:35	1815:10	125	215	4150	2407	4	17, 9	
396	120	80/04/29	2016:10	2018:10	420	275	78100	2407	4	17, 10	
397	120	80/04/29	2158:20	2158:50	45	69			2		
398	120	80/04/29	2337:20	2339:55	195	115	1300		4	17, 11	
399	121	80/04/30	0215:10	0215:40	75	160	3110		5	17, 12	
400	121	80/04/30	0223:45	0223:50	25	78	522		2		
401	121	80/04/30	0238:15	0238:30	40	62			2		
402	121	80/04/30	0245:00	0245:20	60	125	1040		4	17, 13	
403	121	80/04/30	0345:00	0401:50	1500	110			15	17, 14	DG
404	121	80/04/30	0543:25	0546:20	410	210	22900		2	17, 15	
405	121	80/04/30	0610:30	0610:50	45	80			2		
406	121	80/04/30	0729:00	0729:10	35	90			3		
407	121	80/04/30	0731:15	0732:10	45	82			2		
408	121	80/04/30	0741:10	0742:30	115	79			2		
409	121	80/04/30	0902:20	0903:00	70	75			2		
410	121	80/04/30	1102:10	1103:05	185	195	12200		2	17, 16	EN
411	121	80/04/30	1141:40	1142:00	30	100			2		DG
412	121	80/04/30	1407:35	1407:45	35	340	4470		5	17, 17	
413	121	80/04/30	1531:35	1532:50	140	185	1760		5	17, 18	



HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPEN, FILE#	NOTES
414	121	80/04/30	1545:55	1548:45	440	150	11500		2	17, 19	EN
415	121	80/04/30	1719:50	1720:15	40	150	654		4	18, 1	
416	121	80/04/30	2021:10	2022:50	310	680	54000	2396	6	18, 2	
417	122	80/05/01	0047:20	0048:00	110	80			2		
418	122	80/05/01	0717:00	0717:05	8	80			2		
419	122	80/05/01	1627:00	1628:30	1100	1480	2.97E+05	2418	5	18, 3	SN,ES
420	122	80/05/01	1839:40	1841:10	135	100			2		
421	122	80/05/01	2117:50	2119:50	450	120	15000		6	18, 5	
422	123	80/05/02	0030:50	0033:45	265	115	4100	2423		18, 6	
423	123	80/05/02	0400:02	0402:00	115	96			2		
424	123	80/05/02	0436:20	0436:30	30	110	750		4	18, 7	
425	123	80/05/02	0531:50	0532:00	20	100	910		2	18, 8	
426	123	80/05/02	0537:30	0538:40	80	220	1920		5	18, 8	
427	123	80/05/02	0553:50	0555:20	160	66			2		
428	124	80/05/03	0204:10	0205:30	190	2080	81640	2411	8	18, 9	
429	124	80/05/03	0355:10	0355:25	70	105			2		
430	124	80/05/03	0419:08	0419:20	30	65			2		
431	124	80/05/03	0722:05	0722:12	40	72			2		
432	124	80/05/03	1312:40	1315:10	520	150	22400	2418	4	18, 10	SN,ES
433	124	80/05/03	1822:30	1822:42	70	88			2		
434	124	80/05/03	1829:40	1829:55	40	60			2		
435	124	80/05/03	2112:55	2124:25	800	130	10050		5	18, 11	
436	124	80/05/03	2317:00	2317:18	130	550	10900		6	18, 12	
437	125	80/05/04	0041:05	0041:35	245	240	6600		5	18, 13	
438	125	80/05/04	0427:30	0428:25	80	90			4		
439	125	80/05/04	1034:42	1034:46	8	100			2		
440	125	80/05/04	1201:30	1202:00	140	122	4300		2	18, 14	
441	125	80/05/04	1823:45	1824:45	240	290	11919	2411	5	18, 15	
442	125	80/05/04	2014:45	2014:55	25	122	651		5	18, 16	
443	125	80/05/04	2020:00	2020:35	130	65			2		
444	125	80/05/04	2111:00	2112:00	550	118	14458	2418	10	18, 17	M,SN,AX
445	125	80/05/04	2203:10	2203:48	60	275	3615	2418	10	18, 18	
446	125	80/05/04	2335:04	2338:55	250	75		2411	2		
447	126	80/05/05	0256:20	0256:55	55	260	2408		5	18, 19	EN
448	126	80/05/05	0407:00	0408:10	100	133	1679	2418	5	18, 20	
449	126	80/05/05	0430:00	0430:30	60	52			2		
450	126	80/05/05	0525:04	0525:12	50	82		2418	2		
451	126	80/05/05	1050:47	1051:15	90	76			2		
452	126	80/05/05	2109:00	2111:40	220	73			5		
453	126	80/05/05	2307:26	2307:46	50	69					
454	126	80/05/05	2333:10	2333:29	60	90					
455	127	80/05/06	0406:40	0407:04	60	140			5		
456	127	80/05/06	1808:30	1809:48	155	400			5		ND,DG
457	128	80/05/07	0240:00	0240:50	90	68					
458	128	80/05/07	0403:08	0403:39	470	2600	14062		15	19, 1	M
459	128	80/05/07	1032:59	1034:02	180	130			2		
460	128	80/05/07	1307:04	1308:33	145	113			5		
461	128	80/05/07	1455:19	1456:06	150	3600	66419		10	19, 2	M
462	128	80/05/07	1714:11	1714:30	75	66			2		
463	128	80/05/07	2118:04	2118:16	30	54			2		
464	128	80/05/07	2321:15	2323:10	545	220	13914	2418	5	19, 5	
465	129	80/05/08	0018:15	0018:30	30	78			3		
466	129	80/05/08	0056:25	0057:35	385	3550	1.94E+05	2418	12	19, 6	M

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
467	129	80/05/08	0419:37	0419:50	94	460	6260		5	19, 8	
468	129	80/05/08	0423:16	0423:25	72	71			2	19, 8	
469	129	80/05/08	0843:04	0843:20	45	130	929		4	19, 9	
470	129	80/05/08	0909:38	0910:30	130	110			3		
471	129	80/05/08	1340:00	1342:00	350	440	39340	2418	8	19, 10	
472	129	80/05/08	1404:28	1404:50	45	85		2418	3		EN
473	129	80/05/08	1935:50	1937:10	440	1980	66000	2418	7	19, 11	M
474	129	80/05/08	2104:45	2105:30	100	85			5		
475	129	80/05/08	2133:10	2134:00	280	85	3940		2	19, 13	
476	130	80/05/09	0338:55	0339:00	20	115	530		2	19, 14	
477	130	80/05/09	0531:30	0532:20	100	80			2		
478	130	80/05/09	0541:25	0541:50	60	82			2		
479	130	80/05/09	0711:05	0712:35	635	10800	6.94E+05	2418	15	20, 1	M
480	130	80/05/09	1032:40	1035:00	195	135	2210		2	20, 3	
481	130	80/05/09	1521:55	1523:25	140	110			2	20, 4	ND
482	130	80/05/09	2007:41	2008:09	600	70					
483	131	80/05/10	0200:09	0201:29	360	68		2423	2		
484	131	80/05/10	0518:00	0518:50	80	106	1319		3	20, 5	
485	131	80/05/10	0526:25	0526:50	80	135	1483		2	20, 5	
486	131	80/05/10	1505:10	1505:58	64	55			2		ND
487	131	80/05/10	1757:12	1757:13	200	440	7768		10	20, 6	
488	131	80/05/10	1951:28	1952:08	230	1750	96102		10	20, 7	
489	131	80/05/10	2004:20	2004:50	60	100					
490	131	80/05/10	2015:00	2015:05	60	100			2		
491	131	80/05/10	2021:10	2021:20	180	200	5031	2418	10	20, 8	
495	133	80/05/12	0555:40	0557:50	220	150	2138		5	20, 10	
492	133	80/05/12	1013:40	1014:36	130	610	15163		5	20, 9	
493	133	80/05/12	1339:45	1340:18	60	82		2418			
494	133	80/05/12	1628:48	1629:17	80	87					
496	134	80/05/13	0210:50	0211:15	60	42					
501	135	80/05/14	0853:00	0853:20	50	90					
497	135	80/05/14	1005:42	1006:00	50	60			2		
498	135	80/05/14	1009:19	1009:39	125	40			2		
499	135	80/05/14	1256:34	1257:25	960	1500	1.18E+05	2456	14	20, 11	
500	135	80/05/14	1332:00	1332:20	60	65					
4268	135	80/05/14	1437:50	1438:05	30	64			5		I
4269	135	80/05/14	1517:35	1520:19	280	78			2	143, 11	I
502	135	80/05/14	1920:00	1920:18	100	720	14381		5	20, 12	
503	136	80/05/15	1956:57	1959:56	240	87			2		
504	136	80/05/15	2139:20	2139:58	60	104			2		
505	137	80/05/16	0012:40	0013:20	100	160	2262		2	20, 13	
506	137	80/05/16	2058:20	2058:30	80	73			2		
507	137	80/05/16	2108:10	2108:20	40	93			5		
508	137	80/05/16	2230:20	2230:43	320	164	15466		5	20, 14	
509	137	80/05/16	2243:20	2244:04	260	123	1442		2	20, 14	
510	137	80/05/16	2250:00	2250:42	240	108	2777		5	20, 14	
511	138	80/05/17	0144:00	0144:32	80	250	2384		5	20, 15	
512	138	80/05/17	0202:25	0202:45	480	108			2		
513	138	80/05/17	0221:04	0221:54	100	80			2		
514	138	80/05/17	0540:19	0540:57	70	87			2		
515	138	80/05/17	0635:51	0637:07	185	96					SA
516	138	80/05/17	1009:20	1012:45	500	107		2455	5		
517	138	80/05/17	1322:55	1323:17	35	250	1507		5	20, 16	

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518	139	80/05/18	0349:20	0350:00	160	87			2		
4270	139	80/05/18	0817:50	0819:40	1630	122	69400		5	143, 12	M, I
519	139	80/05/18	1254:08	1254:45	90	115			2		
520	139	80/05/18	1342:20	1344:48	250	87	1193		2		
521	140	80/05/19	0538:40	0539:18	135	420	11207		5	21, 1	
522	140	80/05/19	1452:20	1452:42	40	108			5		
523	140	80/05/19	1520:20	1520:47	120	98			5		
524	140	80/05/19	1736:04	1737:04	87	42			2		
525	141	80/05/20	0210:00	0211:20	110	85	522		2	21, 2	
526	141	80/05/20	0216:00	0218:20	380	171	7225		5	21, 2	
527	141	80/05/20	0629:44	0630:40	65	114	1955		2	21, 3	
528	141	80/05/20	0956:45	0957:12	50	68			2		
529	141	80/05/20	1117:50	1120:00	90	76			2		
530	141	80/05/20	1205:40	1207:39	117	71			2		
531	141	80/05/20	1422:25	1426:20	3600	65			2		SN
532	141	80/05/20	1939:20	1939:56	60	198	1351		5	21, 4	
533	141	80/05/20	2304:25	2304:52	51	91			2		
534	142	80/05/21	0324:40	0325:41	160	46			2		
535	142	80/05/21	0519:42	0520:28	126	32			2		
536	142	80/05/21	1206:48	1207:48	100	39			2		
537	142	80/05/21	1448:15	1448:40	300	300	14867		2	21, 6	
538	142	80/05/21	2053:35	2055:53	2376	14300	3.01E+06		15	21, 7	M, ES
539	143	80/05/22	0200:30	0201:26	90	87			2		
540	143	80/05/22	2053:40	2100:15	665	171		2465	2	21, 8	
541	143	80/05/22	2257:10	2257:30	30	84			2		
542	144	80/05/23	0950:30	0950:40	10	95			2		
543	144	80/05/23	0953:50	0954:10	30	81			2		
544	144	80/05/23	1023:50	1024:00	10	76			2		
545	144	80/05/23	1156:40	1156:50	30	114			2		
546	144	80/05/23	1440:40	1441:15	100	345	8487	2470	5	21, 9	
547	144	80/05/23	1444:45	1444:52	15	75			2	21, 9	
548	144	80/05/23	1445:40	1445:50	40	160	1255		2	21, 9	
549	144	80/05/23	1450:18	1450:47	120	61					
550	144	80/05/23	2258:47	2259:10	90	204			2	21, 10	
551	144	80/05/23	2302:40	2302:45	10	6380			14	21, 10	AX
552	145	80/05/24	0018:12	0018:30	100	147			2		
553	145	80/05/24	0047:30	0050:30	260	185	9339		2	21, 11	ES
554	145	80/05/24	0622:40	0624:50	400	102	3877		2	21, 12	SN
555	145	80/05/24	0652:50	0653:40	160	149	3536		2	21, 13	
556	145	80/05/24	0829:50	0830:20	50	85			2		
557	145	80/05/24	0832:40	0833:30	70	117			2		
558	145	80/05/24	1135:50	1135:50	25	74			2		
559	145	80/05/24	1316:30	1316:50	40	48			2		
560	145	80/05/24	1319:10	1319:25	30	70			2		
561	145	80/05/24	1505:00	1510:10	360	83			5	22, 1	AX
562	146	80/05/25	0032:50	0038:20	780	70	2780		2	22, 2	
563	146	80/05/25	0127:30	0130:21	880	198			5	22, 3	SN, ES
564	146	80/05/25	0327:10	0327:50	110	212	5135		5	22, 4	
565	146	80/05/25	1238:50	1239:20	60	70			2		
566	146	80/05/25	1550:20	1550:40	80	90			2		SN
567	146	80/05/25	1727:30	1727:50	65	61			2		
568	146	80/05/25	1729:30	1729:35	35	66			2		
569	146	80/05/25	2052:40	2052:50	25	77			5		

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570	146	80/05/25	2354:20	2356:00	670	146	8537		5	22, 5	
571	147	80/05/26	1304:06	1305:38	170	80			2		
572	147	80/05/26	1424:13	1425:39	280	118	1280		2	22, 6	
573	147	80/05/26	1613:44	1614:58	135	77			2		
574	147	80/05/26	1727:47	1728:08	140	260	5502		5	22, 7	
575	148	80/05/27	0501:00	0502:32	168	92			5		
576	148	80/05/27	0821:00	0821:45	215	258	10780		5	22, 8	
577	148	80/05/27	1600:01	1600:40	147	590	16109		5	22, 9	
578	148	80/05/27	2103:41	2104:38	140	990	26857		5	23, 1	
579	149	80/05/28	0209:08	0209:48	95	375	12128		5	23, 2	
580	149	80/05/28	0213:20	0215:16	280	2334	1.18E+05		5	23, 2	
581	149	80/05/28	0938:21	0938:39	55	78			2		
582	149	80/05/28	1005:17	1005:23	20	98			2		
583	149	80/05/28	1007:44	1008:29	70	73			2		
584	149	80/05/28	1418:50	1419:25	90	595	16384		5	23, 3	
585	149	80/05/28	1550:00	1552:20	1090	315	35701		10	23, 4	
586	149	80/05/28	1719:58	1720:20	700	513	97500		5	23, 5	SN
587	149	80/05/28	2207:30	2207:45	403	228	18661		2	23, 6	
588	149	80/05/28	2219:25	2219:55	92	107			2	23, 6	
589	149	80/05/28	2343:30	2343:30	1070	1558			15		SN,ND
590	150	80/05/29	0332:52	0334:41	240	93	1125		2	23, 7	
591	150	80/05/29	0339:55	0340:20	600	89			5	23, 7	
592	150	80/05/29	0509:20	0510:50	1220	755	64502		11	23, 8	
593	150	80/05/29	0643:50	0644:10	40	88			2		
594	150	80/05/29	0755:35	0757:20	250	84			2	23, 9	
595	150	80/05/29	0947:50	0948:50	90	82			5		
596	150	80/05/29	1005:50	1006:20	50	79			5		
597	150	80/05/29	1111:50	1112:30	80	76			2		
598	150	80/05/29	1146:40	1147:10	50	80			2		
599	150	80/05/29	2351:40	2352:05	70	99			2		
600	151	80/05/30	0201:12	0201:25	30	120			5		
601	151	80/05/30	1055:50	1056:45		68			2		
602	151	80/05/30	2051:22	2052:24	114	117	1789		5	24, 1	
603	152	80/05/31	0612:20	0612:39	145	83			2		
604	152	80/05/31	0743:48	0744:18	110	253	5652		5	24, 2	
605	152	80/05/31	2047:40	2048:20	70	83			2		
606	153	80/06/01	0029:00	0029:10	30	97			5		
607	153	80/06/01	1719:00	1719:30	170	74					SN
608	153	80/06/01	1923:00	1926:20	190	195	13312		2	24, 3	ES
609	153	80/06/01	2057:10	2057:30	40	106			2		
610	153	80/06/01	2058:00	2058:20	60	120			5		
611	154	80/06/02	0012:30	0013:20	65	148			2		
612	154	80/06/02	0306:20	0306:50	40	92			2		
613	154	80/06/02	0821:00	0822:10	100	179	2964		2	24, 4	
614	154	80/06/02	0917:50	0918:30	380	85			2	24	
615	154	80/06/02	0933:00	0933:25	95	77			2		
616	154	80/06/02	1225:05	1225:25	30	82			2		
617	154	80/06/02	1406:50	1407:00	25	75			2		
618	154	80/06/02	1549:30	1550:00	55	77			2		
619	154	80/06/02	2357:42	2358:22	108	86			2		
620	155	80/06/03	0013:18	0017:07	383	88			2		
621	155	80/06/03	0740:04	0741:41	399	137	3407		5	24, 6	
622	155	80/06/03	0753:54	0754:52	510	106	6606		5	24, 6	

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623	155	80/06/03	0803:43	0807:24	551	144	19427		3	24, 6	
624	155	80/06/03	0934:13	0935:23	102	57			2		
625	155	80/06/03	0939:03	0942:08	362	197	12250		5	24, 7	
626	155	80/06/03	1139:12	1142:20	490	908	69495		5	24, 8	
627	155	80/06/03	1411:58	1414:04	337	336	23231		3	24, 9	
628	155	80/06/03	2042:56	2043:18	38	90			2		
629	155	80/06/03	2100:34	2100:57	130	137	1305		2	24, 10	
630	155	80/06/03	2103:40	2104:06	80	90			2	24, 10	
631	156	80/06/04	0002:05	0003:16	350	166	12497		2	24, 11	
632	156	80/06/04	0015:30	0016:28	264	97	2340		2	25, 1	
633	156	80/06/04	0207:49	0208:43	90	112	1523		2	25, 2	
634	156	80/06/04	0653:56	0654:37	279	35200	1.37E+06		15	25, 3	
635	156	80/06/04	0751:50	0834:14	2539	568	2.63E+05		10	25, 4	EN
636	156	80/06/04	0907:53	0911:02	480	104	7110		2	25, 5	
637	156	80/06/04	0954:31	0956:10	213	77			2		
638	156	80/06/04	1054:00	1054:40	80	128			2		
639	156	80/06/04	1405:40	1406:40	120	101	1232		2	25, 6	
640	156	80/06/04	1533:40	1534:05	30	128			5		
641	156	80/06/04	1738:00	1738:10	40	131			2		
642	156	80/06/04	2057:45	2058:05	30	80			2		
643	157	80/06/05	0021:50	0026:10	710	190	28700		2	25, 7	
644	157	80/06/05	0128:30	0129:25	90	109			2		
645	157	80/06/05	0246:50	0247:00	10	130			5		
646	157	80/06/05	0419:30	0422:00	210	85			2		
647	157	80/06/05	0448:10	0448:40	150	70			2	25, 8	
648	157	80/06/05	0453:20	0454:00	230	160	3219		2	25, 8	
649	157	80/06/05	0604:40	0605:50	160	220	5439		5	25, 9	
650	157	80/06/05	0629:30	0629:35	90	70			2		
651	157	80/06/05	0645:20	0645:40	50	525	6393		5	25, 10	
652	157	80/06/05	0652:00	0653:00	195	75			2		
653	157	80/06/05	0954:10	0954:40	60	95			2		
654	157	80/06/05	1135:40	1136:10	210	120	5121		2	25, 11	
655	157	80/06/05	1224:50	1225:10	40	90			2		
656	157	80/06/05	1314:10	1314:30	40	100			2		
657	157	80/06/05	1359:30	1400:30	110	170	1474		5	25, 12	
658	157	80/06/05	2027:40	2028:40	90	132			2		
659	157	80/06/05	2031:56	2032:10	20	105			5		
660	157	80/06/05	2039:20	2039:30	30	104			2		
661	157	80/06/05	2221:10	2221:20	30	88			2		
662	157	80/06/05	2230:05	2230:20	200	164	2482		5	25, 13	
663	157	80/06/05	2339:30	2339:40	20	131			2		
664	157	80/06/05	2340:20	2342:30	220	96	3017		2	26, 1	ND
665	158	80/06/06	0003:35	0005:20	166	81			2		
666	158	80/06/06	0018:40	0019:20	94	100			2		
667	158	80/06/06	0140:45	0141:20	87	166			2		
668	158	80/06/06	0244:30	0246:00	227	177	3564		5	26, 2	
669	158	80/06/06	0341:21	0344:18	245	216	4199		2	26, 3	
670	158	80/06/06	0434:42	0435:02	45	91			2		
671	158	80/06/06	0456:30	0456:45	91	79			2		
672	158	80/06/06	0951:45	0952:29	85	194	2384		5	26, 4	
673	158	80/06/06	1125:40	1126:34	280	250	2877	2495	5	26, 5	
674	158	80/06/06	1142:25	1142:33	35	8466	47208	2490	15	26, 6	
675	158	80/06/06	1217:02	1217:18	20	74			5		

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676	158	80/06/06	1355:30	1356:40	420	116	4032	2490	2	26, 7	
677	158	80/06/06	1550:40	1552:20	130	296	4581	2495	5	26, 8	ES
678	158	80/06/06	1710:30	1722:10	1474	201	13393	2495	5	26, 9	
679	158	80/06/06	2334:15	2334:47	93	3558	29485	2495	10	26, 10	M
680	158	80/06/06	2344:33	2345:01	94	102	703		2	26, 12	
681	158	80/06/06	2348:31	2349:14	65	74			2		ND
682	159	80/06/07	0027:19	0027:26	21	85			2		
683	159	80/06/07	0116:24	0117:27	368	8365	4.55E+05	2495	15	27, 1	M
684	159	80/06/07	0244:16	0244:43	56	79			5		
685	159	80/06/07	0247:57	0248:54	100	66			5		
686	159	80/06/07	0251:49	0252:30	97	68		2495	2	27, 3	
687	159	80/06/07	0253:41	0254:39	321	144	3331	2495	5	27, 3	
688	159	80/06/07	0310:51	0312:15	691	39391	1.33E+06	2495	15	27, 4	M
689	159	80/06/07	0554:02	0554:17	47	97	255		5	27, 5	
690	159	80/06/07	0615:15	0615:34	51	163	2553		5	27, 6	
691	159	80/06/07	0725:24	0725:45	104	398	4547	2495	10	27, 7	SN
692	159	80/06/07	1123:11	1125:40	200	103		2495	2	27, 8	SA
693	159	80/06/07	1228:37	1229:39	109	113		2495	2		ES
694	159	80/06/07	1358:49	1359:05	49	48			2		
695	159	80/06/07	1727:48	1727:58	29	78			2		
696	160	80/06/08	0427:05	0428:10	495	438	8027		5	27, 9	
697	160	80/06/08	0616:30	0617:10	64	78			2		
698	160	80/06/08	0727:15	0727:30	30	142			5		
699	160	80/06/08	1036:10	1036:45	750	347	81640		5	27, 10	SN,ES
700	160	80/06/08	1534:50	1535:00	20	84			2		
701	160	80/06/08	1900:15	1900:18	11	102			2		
702	161	80/06/09	0011:04	0011:22	63	128	2212		5	27, 11	
703	161	80/06/09	0108:01	0108:18	49	74			2		
704	161	80/06/09	0113:08	0113:33	39	106	375		5	27, 12	
705	161	80/06/09	0141:49	0142:42	70	72			2		
706	161	80/06/09	0251:16	0251:30	27	1102	6073		10	28, 1	
707	161	80/06/09	0255:22	0257:16	161	174	3515		5	28, 1	M
708	162	80/06/10	0252:56	0254:53	180	156	4640		2	28, 3	
709	162	80/06/10	0802:44	0803:36	70	73			2		
710	164	80/06/12	0130:10	0130:30	43	141			5		
4275	164	80/06/12	0559:25	0559:46	80	93			2		I
711	164	80/06/12	2206:10	2207:25	140	453	5494		5	28, 4	
712	165	80/06/13	0256:56	0257:07	20	138	1913		2	28, 5	
713	165	80/06/13	0257:56	0258:28	80	388	10759		5	28, 5	
714	165	80/06/13	0621:21	0622:25	140	112	2412		2	28, 6	
715	165	80/06/13	0811:35	0812:22	640	227	25687		5	28, 7	
716	165	80/06/13	2232:20	2234:03	200	1524	1.22E+05		5	28, 8	M,EN
4299	166	80/06/14	0111:20	0114:00	862	83	3056		2	144, 7	I
717	166	80/06/14	0623:35	0631:34	580	266	10912		5	28, 9	
718	166	80/06/14	1343:25	1347:30	600	108	24841		5	28, 10	ES
719	166	80/06/14	1650:00	1701:40	565	508	21518		10	28, 11	
720	167	80/06/15	0410:05	0414:15	480	88	4141		10	28, 12	
721	167	80/06/15	0423:40	0426:25	790	438	53530		5	28, 12	
722	167	80/06/15	0800:20	0800:40	65	174			2		
723	167	80/06/15	0802:40	0802:55	55	76			2		
724	167	80/06/15	0813:10	0813:35	87	100			2		
725	167	80/06/15	1131:30	1132:15	110	195	4380		5	28, 13	EN
726	167	80/06/15	1305:05	1305:25	91	40			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
727	167	80/06/15	1439:30	1439:55	75	99			2		
728	167	80/06/15	1530:25	1531:55	100	90			2		
729	167	80/06/15	1844:03	1844:57	178	307	9506		5	28, 14	
730	167	80/06/15	2028:00	2028:41	110	100	828		2	28, 15	
731	168	80/06/16	2144:16	2145:56	360	103	8729	2417	10	29, 1	M
732	168	80/06/16	2327:47	2331:16	440	100	55719	2417	2	29, 2	
733	169	80/06/17	0003:40	0016:03	1020	105	11561	2417	2	29, 3	
734	169	80/06/17	2143:20	2144:50	1170	70	13300		5	29, 5	
735	170	80/06/18	1852:10	1853:40	150	83			2		
4265	170	80/06/18	2139:40	2141:51	496	100			3	143, 10	I
736	170	80/06/18	2229:21	2229:57	60	82			5		
737	170	80/06/18	2317:00	2317:17	29	74			2		
738	170	80/06/18	2322:18	2322:34	55	85			2		
739	170	80/06/18	2336:59	2337:16	99	343	6315		10	29, 6	
740	171	80/06/19	0002:38	0004:18	200	87	2266		5	29, 7	
741	171	80/06/19	0007:35	0008:04	57	129	1115		5	29, 7	
742	171	80/06/19	0134:05	0134:15	22	86			2		
743	171	80/06/19	0223:47	0224:05	160	71					SN
744	171	80/06/19	0427:08	0429:07	161	64			5		
745	171	80/06/19	0500:18	0500:19	46	136	1089		5	29, 8	
746	171	80/06/19	1555:06	1556:38	205	103	2665		2	29, 9	
747	171	80/06/19	1831:49	1839:01	520	1317	63347		10	29, 10	
748	171	80/06/19	1854:16	1857:41	380	1265	73333		5	29, 10	M
749	171	80/06/19	2020:51	2023:07	200	192	6723		5	29, 11	
750	171	80/06/19	2135:00	2136:35	160	98	2449		5	29, 12	
751	171	80/06/19	2344:21	2348:44	240	76	1475		2	29, 13	
752	172	80/06/20	0320:33	0321:49	150	113	2599		2	29, 14	EN
753	172	80/06/20	0444:57	0445:09	60	109	623		2	29, 15	
754	172	80/06/20	0446:54	0447:32	100	143	929		2	29, 15	
755	172	80/06/20	0450:06	0451:17	140	165	4689		2	29, 15	
756	172	80/06/20	1254:18	1255:26	100	92			2		
757	172	80/06/20	1832:00	1832:17	52	92			2		
758	172	80/06/20	2009:45	2010:13	108	215	2300		5	30, 1	
759	172	80/06/20	2021:04	2022:21	148	168	1595		5	30, 2	
760	172	80/06/20	2133:12	2135:08	562	117	16801		5		
761	173	80/06/21	0045:18	0058:22	1523	435	1.99E+05		10	30, 3	SN
762	173	80/06/21	0112:40	0118:40	1352	141391	4.14E+06		15	30, 3	
763	173	80/06/21	0139:02	0140:12	386	103	80402		5	30, 3	EN,ND
764	173	80/06/21	0248:29	0252:27	392	309	15655		5	30, 4	
765	173	80/06/21	0447:24	0448:34	228	269	11619		5	30, 5	
766	173	80/06/21	0553:28	0554:12	235	735	12716		10	30, 6	M
767	173	80/06/21	0625:54	0626:23	72	83			2	30, 8	
768	173	80/06/21	0628:03	0629:26	181	125	1775		5	30, 8	
769	173	80/06/21	1044:17	1044:30	170	193	6549		2		SA
4263	173	80/06/21	1726:10	1727:03	137	161	5014		2	143, 9	I
4264	173	80/06/21	1733:05	1738:32	327	76			2	143, 9	I
770	173	80/06/21	2030:03	2030:30	175	162	3311		5	30, 9	
771	173	80/06/21	2215:05	2216:45	275	78	1933		2	30, 10	
772	173	80/06/21	2354:00	2357:10	365	76	2613		5	30, 11	
773	174	80/06/22	0432:25	0432:55	45	88			2		
774	174	80/06/22	1705:05	1705:15	40	81			2		
775	174	80/06/22	1857:30	1904:20	900	150	13541		5	30, 12	
776	174	80/06/22	2013:40	2014:15	40	72			2		

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777	174	80/06/22	2129:35	2133:10	540	98	16000		5	30, 13	
778	174	80/06/22	2155:20	2155:40	30	84			2		
779	174	80/06/22	2157:05	2157:20	40	88			2		
780	174	80/06/22	2212:20	2214:05	185	90	600		5	31, 1	
781	175	80/06/23	0221:05	0221:15	80	153	1970		2	31, 2	
782	175	80/06/23	0614:00	0615:25	100	110	894		5	31, 3	
783	175	80/06/23	0622:05	0624:35	340	490	28364		5	31, 3	
784	175	80/06/23	0731:40	0731:50	20	99			2		
785	175	80/06/23	0916:20	0917:20	410	81	1229		2	31, 4	
786	175	80/06/23	1054:00	1055:40	260	94	2621		2	31, 5	
787	175	80/06/23	1228:30	1229:10	140	76	522		2	31, 6	
788	175	80/06/23	1235:30	1238:25	870	136	13546		2	31, 6	
789	175	80/06/23	1516:35	1517:50	155	116	2132		2	31, 7	
790	175	80/06/23	1827:39	1828:16	80	74			2		
791	175	80/06/23	2127:14	2128:34	480	151	15984		5	31, 8	
792	175	80/06/23	2208:48	2211:06	260	78	1587		2	31, 9	
793	175	80/06/23	2309:50	2312:06	340	519	38057		2	31, 10	
794	175	80/06/23	2333:59	2335:47	760	647	1.32E+05		5	31, 10	
795	175	80/06/23	2359:30	2359:54	60	104	1996		2	31, 10	
796	176	80/06/24	0002:39	0003:04	90	79	642		2		
797	176	80/06/24	0255:08	0255:41	80	96			2		
798	176	80/06/24	0600:58	0601:27	50	87			5		
799	176	80/06/24	1042:57	1043:43	132	91			2		
800	176	80/06/24	1521:48	1522:51	280	517	30789		5	31, 11	
801	176	80/06/24	1649:48	1650:13	40	87			2		
802	176	80/06/24	1702:36	1702:56	30	76			2		
803	176	80/06/24	1943:23	1958:20	1621	1302	59079		10	31, 12	M
804	176	80/06/24	2124:52	2126:51	180	134	7146		5	31, 13	
805	176	80/06/24	2145:56	2147:46	150	72			2		
806	176	80/06/24	2303:24	2305:54	240	70	14680		2	32, 1	
807	177	80/06/25	0047:22	0048:06	220	136	2053		2	32, 2	
808	177	80/06/25	0355:04	0356:32	240	89	2176		2	32, 3	SA
809	177	80/06/25	1236:04	1238:11	448	275	22579		5	32, 4	
810	177	80/06/25	1548:27	1551:59	665	2880	3.97E+05		10	32, 5	
811	177	80/06/25	1710:20	1710:30	30	78			2		
812	177	80/06/25	1723:38	1724:32	121	116	43766		2	32, 6	
813	177	80/06/25	1939:50	1944:40	520	105			5	32, 7	SN,ND
814	177	80/06/25	1952:50	1953:05	25	94			2		
815	177	80/06/25	2121:50	2123:00	400	139	15131		10	32, 8	SN
816	177	80/06/25	2202:40	2204:40	340	66			2	32, 9	ND
817	177	80/06/25	2219:00	2219:10	20	67			5		
818	177	80/06/25	2345:30	2347:40	370	86	3170		5	32, 10	
819	178	80/06/26	0119:10	0119:20	60	97			5		
820	178	80/06/26	0354:50	0355:10	40	73			2		
821	178	80/06/26	0418:40	0419:30	60	118			2		
822	178	80/06/26	0742:30	0742:50	30	86			2		
823	178	80/06/26	0752:20	0752:50	55	75			2		
824	178	80/06/26	1822:10	1822:35	60	142	2176		5	32, 11	
825	178	80/06/26	1945:20	1945:40	145	153	2898		2	32, 12	SN
826	178	80/06/26	2159:50	2201:25	525	91	4535		5	32, 13	
827	178	80/06/26	2339:35	2340:25	470	95	6400		5	32, 14	
828	179	80/06/27	0036:15	0037:00	150	148	4805		5	33, 1	
829	179	80/06/27	0111:55	0113:00	525	135	6500		2	33, 2	



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830	179	80/06/27	0422:05	0422:30	50	86			2	33, 3	
831	179	80/06/27	0429:20	0430:10	125	65	1200		5	33, 3	
832	179	80/06/27	0433:20	0434:10	230	86	4715		5	33, 3	
833	179	80/06/27	0438:50	0439:50	210	84	4095		5	33, 3	EN
834	179	80/06/27	0606:05	0607:15	225	153	4368		5	33, 4	
835	179	80/06/27	1221:00	1221:15	45	69			2		
4276	179	80/06/27	1346:23	1348:17	190	125	4052		5		I
836	179	80/06/27	1704:40	1705:20	70	118	1828		5	33, 5	
837	179	80/06/27	1710:45	1710:50	30	95			5		
838	179	80/06/27	2032:00	2032:15	40	66			2		
839	179	80/06/27	2032:55	2033:00	20	60			2		
840	179	80/06/27	2331:10	2332:10	110	68			2		
841	180	80/06/28	0244:50	0246:00	1020	1283	1.16E+05		10	33, 6	
842	180	80/06/28	0745:30	0749:45	460	785	48900		10	33, 7	EN
843	180	80/06/28	1327:15	1328:45	415	247	13800		5	33, 8	
844	180	80/06/28	1513:50	1515:20	160	90			2		
845	180	80/06/28	1654:05	1655:00	140	67	530		5	33, 9	
846	180	80/06/28	1708:20	1708:50	55	83			2		
847	180	80/06/28	1845:20	1845:30	50	83			2		
848	180	80/06/28	1856:55	1857:30	160	107	1606		5	33, 10	
849	180	80/06/28	2259:20	2259:50	60	159	3809		5	33, 11	
850	180	80/06/28	2302:35	2302:40	20	65	213		2	33, 11	
851	181	80/06/29	0233:00	0234:50	1440	5556	6.30E+05		10	33, 12	
852	181	80/06/29	0413:30	0414:30	105	101	958		5	33, 13	
853	181	80/06/29	1040:10	1041:50	1110	9348	5.44E+05		15	33, 14	M
854	181	80/06/29	1702:00	1703:10	110	98					
855	181	80/06/29	1802:40	1803:10	370	441	25625		5	34, 1	SN
856	181	80/06/29	1822:00	1823:10	825	3177	3.88E+05		10	34, 2	
857	181	80/06/29	2021:30	2021:50	60	71			2		
858	181	80/06/29	2026:45	2027:05	20	66			2		
859	181	80/06/29	2130:30	2130:40	45	81			2		
860	181	80/06/29	2143:20	2146:10	300	97	1525		5	34, 3	
861	181	80/06/29	2158:50	2159:20	70	83			2		
862	181	80/06/29	2211:10	2211:50	80	189	4974		5	34, 4	ES
863	181	80/06/29	2322:10	2322:50	140	64			2		
864	181	80/06/29	2334:10	2335:40	180	73			2		
865	182	80/06/30	0108:20	0108:40	45	70			2		
866	182	80/06/30	0419:50	0420:25	270	114	3342		5	34, 5	
867	182	80/06/30	0721:40	0722:00	105	211	3235		5	34, 6	
868	182	80/06/30	0740:50	0741:50	250	98	5136		2	34, 7	EN
869	182	80/06/30	1045:20	1046:00	130	75			2		
870	182	80/06/30	1335:00	1338:50	285	180	12896		5	34, 8	
871	182	80/06/30	1521:10	1528:00	1020	207	13443		5	34, 9	
872	182	80/06/30	1818:20	1825:00	850	157	25845		5	34, 10	
873	182	80/06/30	1946:10	1947:45	260	181	1253		2	34, 11	
874	182	80/06/30	2132:10	2134:20	230	90	3542		2	34, 12	
875	183	80/07/01	0117:44	0118:05	130	121	1463		2	34, 13	
876	183	80/07/01	1350:52	1351:30	160	278	4571		5	34, 14	
877	183	80/07/01	1624:59	1627:29	831	27235	2.60E+06		15	35, 1	M
878	183	80/07/01	2253:31	2253:40	22	85	285		15	35, 2	
879	185	80/07/03	0022:22	0023:02	80	2344	25576		10	35, 3	
4284	185	80/07/03	0253:35	0254:05	60	69			2		I
4285	186	80/07/04	0659:15	0659:45	65	81			2		I

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
881	187	80/07/05	0015:12	0019:17	460	94	8058		5	35, 4	SN
882	187	80/07/05	0042:34	0042:42	16	192	811		5	35, 5	
883	187	80/07/05	0153:14	0153:38	53	200	1245		5	35, 6	
884	187	80/07/05	0156:35	0158:05	750	87	7200		3	35, 6	
885	187	80/07/05	0735:29	0738:21	186	382	29097		10	35, 7	M, EN
886	187	80/07/05	1009:53	1010:03	34	175	786		5	35, 8	
887	187	80/07/05	1025:34	1025:43	36	82			2		
888	187	80/07/05	1455:13	1456:26	149	85			2		
889	187	80/07/05	1615:16	1615:49	70	99			2		
890	187	80/07/05	1634:18	1636:22	140	70			2		
891	187	80/07/05	2237:24	2241:35	3195	6303	2.64E+06		10	35, 9	SN, ES
892	188	80/07/06	0418:04	0419:54	420	327	16610		5	35, 10	
893	188	80/07/06	0956:40	0958:06	80	93			2		
894	189	80/07/07	0104:26	0104:56	35	133	448		5	35, 11	
895	189	80/07/07	0536:33	0536:41	13	112			5		
896	189	80/07/07	1013:23	1014:09	120	114	2463		2	35, 12	
897	189	80/07/07	1017:28	1017:43	20	280	1169		5	35, 12	
898	189	80/07/07	1141:24	1143:46	180	237	1262		5	35, 13	
899	189	80/07/07	1146:27	1151:09	580	244	26159		5	35, 13	
900	189	80/07/07	1213:01	1213:18	40	74			2		
901	189	80/07/07	1355:03	1355:31	70	182	2163		5	35, 14	
902	189	80/07/07	1446:07	1450:03	320	89	2032		10	36, 1	
903	189	80/07/07	1615:12	1616:31	160	71			2		
904	189	80/07/07	1619:28	1620:28	120	70			2		
905	189	80/07/07	1629:07	1631:24	240	75	1550		5	36, 2	
906	189	80/07/07	1751:00	1753:10	610	309	18125		10	36, 3	SN
907	189	80/07/07	2113:40	2114:20	280	725	13425		5	36, 4	M
908	189	80/07/07	2246:20	2227:15	125	222					ND
909	190	80/07/08	0050:10	0051:10	225	193	5006		5	36, 5	
910	190	80/07/08	0057:40	0057:50	45	79			2		
911	190	80/07/08	0239:30	0239:50	45	239	1377		5	36, 6	
912	190	80/07/08	1447:30	1450:40	450	74			2		
913	190	80/07/08	1919:41	1920:08	40	65			2		
914	190	80/07/08	1933:22	1933:45	45	70			2		
915	190	80/07/08	1951:21	1952:37	101	84			2		
916	190	80/07/08	2058:52	2059:04	25	113	573		5	36, 7	
917	190	80/07/08	2102:50	2103:20	96	90			5	36, 7	
918	190	80/07/08	2106:05	2106:17	29	87			5	36, 7	
919	190	80/07/08	2112:17	2112:43	63	69			5		
920	190	80/07/08	2314:02	2314:25	76	94			2		ND
921	191	80/07/09	0145:31	0145:43	64	427	6046		10	36, 8	
922	191	80/07/09	0214:45	0215:12	115	523			10		
923	191	80/07/09	2112:45	2112:55	75	69			2		
924	191	80/07/09	2257:25	2259:50	305	138	2288		5	36, 9	
925	192	80/07/10	0150:15	0150:20	15	139	429		5	36, 10	
926	192	80/07/10	0227:40	0228:20	170	209	1500		5	36, 11	
927	192	80/07/10	0355:50	0356:55	180	535	7593		5	36, 12	
928	192	80/07/10	0501:35	0501:45	45	120	791		2	36, 13	
929	192	80/07/10	0943:20	0943:25	90	95			2		
930	192	80/07/10	1017:50	1018:15	155	79			2		
931	192	80/07/10	1259:40	1300:50	170	68			5		
932	192	80/07/10	1439:00	1441:45	275	67	1081		2	37, 1	
933	192	80/07/10	1558:05	1558:15	40	68			15		

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934	192	80/07/10	1738:55	1739:20	35	114	260		5	37, 2	
935	192	80/07/10	2122:05	2122:20	55	42			2		
936	192	80/07/10	2125:00	2126:05	120	53			5		
937	193	80/07/11	0153:25	0154:25	150	76			2		
938	193	80/07/11	0531:15	0531:35	40	103	501		5	37, 3	
939	193	80/07/11	0626:40	0629:15	200	70	747		2	37, 4	SN
940	193	80/07/11	0815:05	0817:50	315	68	3622		2	37, 5	
941	193	80/07/11	0823:40	0824:00	100	63	900		2	37, 5	
4286	193	80/07/11	1200:00	1201:00	163	185	4382		3	144, 2	I
942	193	80/07/11	1250:25	1250:50	50	197			5	143, 17	
943	193	80/07/11	1251:25	1253:00	145				5	37, 6	ND
944	193	80/07/11	1255:25	1255:45	475	408			5	37, 6	ND
4278	193	80/07/11	1511:58	1513:41	640	319	15189		10	143, 18	I
945	193	80/07/11	1912:12	1913:27	140	87			5		
946	193	80/07/11	1943:56	1944:41	130	224	8592		5	37, 7	
947	193	80/07/11	2223:44	2226:55	360	105	6636		2	37, 8	
948	194	80/07/12	0215:39	0216:55	760	90	19151		2	37, 9	
949	194	80/07/12	0528:44	0529:49	120	80			2		
950	194	80/07/12	0704:27	0706:03	140	81			2		
951	194	80/07/12	0805:40	0806:07	80	155	650		2	37, 10	
4280	194	80/07/12	0942:52	0943:06	80	228	940		5	143, 20	I
952	194	80/07/12	1110:40	1117:15	983	1406	2.62E+05		5	37, 11	M
953	194	80/07/12	1254:09	1255:00	140	100			5		ND
4279	194	80/07/12	1341:36	1343:10	200	1621	42967		5	143, 19	I
954	194	80/07/12	1433:07	1436:01	300	93	5952		5	37, 12	
955	194	80/07/12	1444:10	1444:56	130	66			2		
956	194	80/07/12	1735:25	1736:15	265	2799	63124		10	37, 13	M
957	194	80/07/12	1921:05	1921:10	25	67			2	37, 14	
958	194	80/07/12	1922:45	1923:30	140	115	2604		5	37, 14	
959	194	80/07/12	2225:50	2226:05	35	84			2		
960	194	80/07/12	2230:15	2230:35	110	78			2		
961	194	80/07/12	2237:10	2240:20	215	84	1043		2	38, 1	
962	194	80/07/12	2257:50	2258:15	85	74			2		
963	194	80/07/12	2300:40	2301:30	60	71			2		
964	195	80/07/13	0027:30	0027:40	35	40			2		ND
965	195	80/07/13	0028:50	0029:05	40	90			2		
966	195	80/07/13	0351:20	0352:15	160	72			2		
967	195	80/07/13	0356:05	0356:10	45	61			2		
968	195	80/07/13	0626:05	0629:25	200	71	924		5	38, 2	
969	195	80/07/13	1116:10	1117:00	95	64			10		
970	195	80/07/13	1430:25	1433:15	555	140	15180		5	38, 3	
971	195	80/07/13	1604:00	1604:55	155	91			2		
972	195	80/07/13	1759:50	1801:00	295	278	12666		2	38, 4	
973	195	80/07/13	1915:50	1918:10	625	841	42024		5	38, 5	M
974	195	80/07/13	1929:55	1930:35	155	137	1689		2	38, 5	
975	196	80/07/14	0038:35	0039:00	35	73			2		
976	196	80/07/14	0042:20	0042:35	85	93			5		
977	196	80/07/14	0134:45	0134:55	15	99			2		
978	196	80/07/14	0149:15	0149:35	205	197	2460		5	38, 6	
979	196	80/07/14	0317:33	0317:39	20	86			2		
980	196	80/07/14	0355:44	0357:06	150	172	3657		5	38, 7	
981	196	80/07/14	0503:36	0503:46	20	71			2		
982	196	80/07/14	0646:24	0647:14	110	106	999		5	38, 8	

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983	196	80/07/14	0822:04	0825:55	440	5332	4.15E+05		15	38, 9	M
984	196	80/07/14	1015:08	1016:46	220	186	692		5	38, 10	
985	196	80/07/14	1246:04	1248:03	220	79	2687		5	38, 11	
986	196	80/07/14	1326:35	1330:42	440	78	3804		2	38, 12	
987	196	80/07/14	1424:53	1430:15	840	110	21781		5	38, 13	
988	197	80/07/15	0129:30	0130:15	105	292	4157		5	38, 14	
989	197	80/07/15	0845:00	0845:25	115	307	4441		5	39, 1	
990	197	80/07/15	0937:30	0937:40	100	66			2		
991	197	80/07/15	0953:00	0953:30	140	320	5062		5	39, 2	
992	197	80/07/15	1423:02	1426:57	440	85	4255		5	39, 3	
993	197	80/07/15	2247:05	2247:50	190	166	5711		5	39, 4	
994	198	80/07/16	0633:50	0634:25	115	57			2		
995	198	80/07/16	0636:30	0637:35	170	106	3545		2	39, 5	
996	198	80/07/16	1422:32	1423:25	80	103	1060		2	39, 6	
997	198	80/07/16	1511:00	1511:17	140	454	12452		5	39, 7	SA
998	198	80/07/16	1733:06	1733:17	50	117	1389		2	39, 8	
999	198	80/07/16	1750:46	1751:04	99	71			2		
1000	198	80/07/16	1923:46	1924:10	35	83			2		
1001	199	80/07/17	0141:36	0142:28	100	70			2		
1002	199	80/07/17	0610:51	0615:09	380	110	8493		5	39, 9	
1003	199	80/07/17	0659:32	0700:16	102	141	2408		2	39, 10	
1004	199	80/07/17	0923:25	0924:56	182	85			5		AX
1005	199	80/07/17	1104:33	1105:52	150	86			5		AX
1006	199	80/07/17	1330:55	1333:26	267	74	2394		2	39, 11	
4287	200	80/07/18	0020:25	0021:40	75	76			2		I
4288	200	80/07/18	0203:30	0204:15	70	76			2		I
1007	200	80/07/18	0454:38	0455:20	110	87			5		
1008	200	80/07/18	0612:49	0613:05	40	67			2		
1009	200	80/07/18	0655:08	0655:30	60	211	2443		5	39, 12	
1010	200	80/07/18	0919:52	0922:49	250	94	3328		10	39, 13	
1011	201	80/07/19	0007:20	0007:40	120	239	3120		5	39, 14	
1012	201	80/07/19	0027:15	0035:55	775	101	19000		5	39, 14	ES
1013	201	80/07/19	0655:10	0657:10	255	75	390		2	40, 1	
1014	201	80/07/19	0754:20	0755:20	125	70			2		
4289	202	80/07/20	0029:45	0031:00	139	119	1995		2	144, 3	I
1015	202	80/07/20	0817:00	0818:20	130	356	11694		5	40, 2	
1016	202	80/07/20	0914:45	0915:58	260	94	4985		5	40, 3	
1017	202	80/07/20	1229:41	1233:58	500	72	3797		5	40, 4	
1018	202	80/07/20	1922:43	1925:08	417	2624	1.04E+05		10	40, 5	
1019	202	80/07/20	2237:20	2237:36	29	162	819		5	40, 6	
1020	203	80/07/21	0032:34	0032:47	36	74			2		
1021	203	80/07/21	0136:10	0136:19	28	75			2		
1022	203	80/07/21	0253:43	0256:13	612	12443	7.99E+05		15	40, 7	M
1023	203	80/07/21	0946:13	0946:21	57	62			2		
4290	203	80/07/21	1413:15	1414:20	135	84			2		I
4291	203	80/07/21	1422:50	1423:30	65	67			2		I
1024	203	80/07/21	1919:40	1920:36	340	160	10404		5	40, 9	
1025	203	80/07/21	2213:56	2214:28	90	86			2		
1026	205	80/07/23	0008:50	0010:50	220	83	1957		2	40, 10	
1027	205	80/07/23	0109:30	0112:05	2025	319	7.11E+06		10	40, 10	M, SN
1028	205	80/07/23	0303:20	0304:25	120	200	4720		5	40, 12	
1029	205	80/07/23	0620:10	0621:50	135	72			2		
1030	205	80/07/23	0741:45	0742:20	120	71			5		

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1031	205	80/07/23	1010:15	1010:45	55	247	3558		5	40, 13	
1032	205	80/07/23	1635:40	1635:55	40	76			2		
1033	205	80/07/23	2156:45	2157:45	105	110	1907		5	40, 14	
1034	205	80/07/23	2210:35	2212:00	265	74	1061		2	40, 14	
1035	206	80/07/24	0001:05	0001:20	185	70			2		
1036	206	80/07/24	0303:10	0303:35	40	84			2		
1037	206	80/07/24	0648:30	0648:50	35	83			2		
1038	206	80/07/24	0908:30	0909:05	60	228	2216		5	41, 1	
1039	206	80/07/24	1138:55	1139:10	235	93	1840		2	41, 2	
1040	207	80/07/25	1538:25	1541:10	360	90	3830		2	41, 3	
1041	207	80/07/25	2057:31	2058:10	126	91			2		ES
1042	208	80/07/26	0116:18	0119:42	433	189	57065		5	41, 4	ND
1043	208	80/07/26	0152:29	0152:45	31	123	639		2	41, 5	
1044	208	80/07/26	1136:08	1136:40	95	65			2		
1045	208	80/07/26	1306:33	1307:25	179	94			2		
1046	208	80/07/26	1731:17	1732:04	146	88			2		
1047	208	80/07/26	2328:16	2328:50	43	89			5		
1048	208	80/07/26	2351:22	2352:19	90	78			5		
1049	209	80/07/27	0641:07	0642:12	90	75			2		
1050	209	80/07/27	0959:35	1000:41	130	59			2		
1051	209	80/07/27	1045:15	1045:52	100	68			2		ES
1052	209	80/07/27	1222:24	1222:54	50	288	3462		10	41, 6	
1053	209	80/07/27	2041:35	2042:05	115	62			2		
1054	210	80/07/28	0437:40	0444:40	745	70	2261		2	41, 7	
4332	219	80/08/06	0002:55	0003:45	145	63			2		I
4335	219	80/08/06	0549:30	0552:15	482	89			2	145, 4	I, ND
1055	220	80/08/07	0743:05	0746:00	390	67	1376		2	41, 8	
1056	220	80/08/07	1116:25	1118:05	120	99			2		EN, ND
1057	222	80/08/09	2014:23	2014:55	340	121	4719		2	41, 9	
1058	222	80/08/09	2332:25	2332:46	50	66		2605	2	41, 10	
1059	222	80/08/09	2338:03	2342:22	450	74	2067	2605	2	41, 10	
1060	222	80/08/09	2348:53	2349:10	30	114		2605	2	41, 10	
1061	223	80/08/10	2125:42	2126:24	239	119	6348		10	41, 11	
1062	223	80/08/10	2201:54	2203:14	166	72			2		
1063	223	80/08/10	2342:02	2346:22	345	96	4325		5	41, 12	
1064	224	80/08/11	0051:20	0102:27	667	772	77856		15	41, 13	
1065	224	80/08/11	1034:16	1034:55	223	202	3326		5	42, 1	
1066	224	80/08/11	1049:40	1052:20	749	300	15999		5	42, 1	
1067	224	80/08/11	2119:00	2121:24	280	155	12336		5	42, 2	
1068	225	80/08/12	0604:01	0605:17	240	128	3807		5	42, 3	
1069	225	80/08/12	2136:18	2137:49	150	65			2		
1070	226	80/08/13	0112:02	0113:14	120	60			2		
1071	226	80/08/13	1314:52	1315:08	400	96	8495		2	42, 4	ES
1072	226	80/08/13	1658:00	1659:10	140	69			5		
1073	226	80/08/13	2121:25	2122:55	110	56			2		
1074	227	80/08/14	1217:00	1217:35	55	68			2		
4364	227	80/08/14	2311:40	2312:10	67	204	2154		4	145, 16	I
1075	228	80/08/15	0116:53	0118:13		92			2		ND
1076	228	80/08/15	0216:11	0218:07	150	129	2737		15	42, 5	
1077	228	80/08/15	1820:09	1821:43	190	81			5		
1078	228	80/08/15	2144:36	2145:49	130	63			2		
1079	229	80/08/16	1229:24	1229:35	50	71			2		
1080	229	80/08/16	1352:01	1353:47	160	58			2		

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1081	229	80/08/16	1512:40	1513:40	150	57			2		
1082	229	80/08/16	1804:45	1806:10	110	66			2		
1083	229	80/08/16	1932:00	1933:45	275	463	29500		5	42, 6	
1084	231	80/08/18	0153:40	0154:10	60	73			2		
1085	231	80/08/18	1044:52	1045:37	114	176	3932		2	42, 7	
1086	231	80/08/18	2006:40	2007:20	85	60			2		
1087	232	80/08/19	0220:10	0220:20	50	64			2		
1088	232	80/08/19	1523:05	1525:25	200	71	924		2	42, 8	
1089	232	80/08/19	1527:15	1528:05	180	67	659		2	42, 8	
1090	234	80/08/21	1312:05	1312:30	95	220	2768		5	42, 9	
1091	234	80/08/21	1331:06	1331:09	10	80	240		2		
1092	234	80/08/21	1342:00	1343:40	710	90		2629	2	42, 10	ND
1093	234	80/08/21	1650:05	1650:20	120	75	630	2635	2		
1094	234	80/08/21	1743:00	1743:25	45	90	225	2635	2		
1095	234	80/08/21	1750:58	1751:08	30	284	1282	2635	5	42, 11	
1096	235	80/08/22	0031:12	0031:34	230	79	1033	2635	5	42, 12	
1097	235	80/08/22	0227:07	0227:30	110	77		2629	2		
1098	235	80/08/22	0241:09	0241:44	70	74			2		
1099	235	80/08/22	0344:11	0345:29	80	80		2626	2		
1100	235	80/08/22	0347:02	0347:42	70	72		2626	2		
1101	235	80/08/22	0514:58	0517:03	926	310	39322	2675	2	42, 13	
1102	235	80/08/22	0828:06	0829:12	300	1367	75906		10	42, 14	
1103	235	80/08/22	1126:15	1127:58	160	289	8446		5	42, 15	
4377	235	80/08/22	1308:20	1309:35	109	61			2		I
1104	235	80/08/22	1652:47	1654:20	360	53	2949	2635	2		
1105	235	80/08/22	1948:40	1949:06	36	66			2		
1106	235	80/08/22	2121:54	2125:28	834	2091	76784	2635	10	43, 1	M
1107	236	80/08/23	0636:47	0636:56	36	95		2629	2		
1108	236	80/08/23	1156:18	1156:53	459	124	7127	2629	5	43, 2	
1109	236	80/08/23	1204:34	1205:10	391	227	5620	2629	2	43, 2	
1110	236	80/08/23	1449:56	1450:49	118	149	2621	2629	5	43, 3	
1111	236	80/08/23	1804:20	1806:09	150	81			2		
1112	236	80/08/23	1816:31	1817:26		84			2		ES
1113	236	80/08/23	2126:39	2128:33	480	903	73859		5	43, 4	
1114	237	80/08/24	0022:52	0024:41	190	98			2		
1115	237	80/08/24	0223:53	0224:42	70	72			2		
1116	237	80/08/24	0525:10	0529:13	660	194	25392		2	43, 5	
1117	237	80/08/24	0823:56	0827:55	540	104	9361		2	43, 6	
1118	237	80/08/24	1323:37	1323:59	40	94			2		
1119	237	80/08/24	1604:29	1609:22	1065	312	44451		5	43, 7	
1120	237	80/08/24	1642:23	1645:09	340	74	3633		2	43, 8	AX
1121	237	80/08/24	1810:38	1811:02	40	74			2		
1122	237	80/08/24	1944:17	1945:39	700	608	74210		5	43, 9	M, ES
1123	237	80/08/24	2238:55	2239:11	30	62			2		
1124	238	80/08/25	0008:40	0008:49	50	79			2		
1125	238	80/08/25	0021:40	0022:22	130	232	3524		5	43, 10	
1126	238	80/08/25	0217:11	0223:52	600	100	6906		2	43, 11	
1127	238	80/08/25	0339:30	0340:05	120	69			2		
1128	238	80/08/25	0400:18	0401:39	110	342	11723		5	43, 12	
1129	238	80/08/25	0632:23	0635:46	360	74			2		
1130	238	80/08/25	1017:30	1019:49	220	301			5	43, 13	
1131	238	80/08/25	1253:38	1254:25	78	247	4320		5	43, 14	
1132	238	80/08/25	1256:17	1302:15	840	161	32706		2	43, 14	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1133	238	80/08/25	1457:00	1457:40	220	87	3902		2	43, 15	
1134	238	80/08/25	1623:20	1623:47	80	77			2		
1135	238	80/08/25	1753:00	1753:40	360	125	4105		2	43, 16	
1136	238	80/08/25	1915:35	1915:55	45	61			2		
1137	238	80/08/25	2057:10	2057:55	55	85			2	44, 1	
1138	238	80/08/25	2059:05	2059:55	130	106	1156		2	44, 1	
1979	239	80/08/26	0353:45	0354:10	166	148	1884		4	146, 15	I
4418	239	80/08/26	0406:10	0407:25	103	168	1764		2	146, 15	I
1139	239	80/08/26	1026:55	1028:15	135	85			2		
1140	239	80/08/26	1029:30	1030:10	104	74			2		
1141	239	80/08/26	1142:31	1142:32	1	1245			10	44, 2	M, AX
1142	240	80/08/27	0039:00	0039:30	30	78			2		
1143	240	80/08/27	0226:10	0226:15	15	79			2		
1144	240	80/08/27	0508:55	0509:05	20	63			2		
1145	240	80/08/27	0658:30	0658:35	40	84			2		
1146	240	80/08/27	0803:40	0804:20	60	134	1020		2	44, 4	M
1147	240	80/08/27	0818:45	0819:12	90	518	4500		5	44, 5	M
1148	240	80/08/27	1021:50	1022:10	90	45			2		
1149	240	80/08/27	1136:05	1137:25	270	294	12150		5	44, 6	M
1150	240	80/08/27	1226:20	1226:45	60	60			2		
1151	240	80/08/27	1322:20	1327:15	1025	165	35875		2	44, 9	M
1152	240	80/08/27	1610:50	1612:20	150	222	5100		5	44, 11	
1153	240	80/08/27	1738:40	1738:55	40	62			2		
1154	240	80/08/27	2243:40	2244:15	90	84			2		
1155	241	80/08/28	0028:25	0029:20	120	136	2040		2	44, 12	
1156	241	80/08/28	0356:55	0357:10	60	70			2		
1157	241	80/08/28	1157:45	1158:05	60	114	780		2	44, 13	M
1158	241	80/08/28	1248:05	1249:30	250	149	6750		10	44, 14	M
1159	241	80/08/28	1556:05	1556:30	80	73			2		
1160	241	80/08/28	1726:30	1726:50	65	205	1820		5	44, 16	
1161	242	80/08/29	0803:10	0803:40	60	68			2		
1162	242	80/08/29	0931:50	0932:05	60	95			2		
1163	242	80/08/29	1238:20	1238:50	80	69			2		
1164	243	80/08/30	0140:10	0140:20	35	81			2		
1165	243	80/08/30	0301:15	0301:25	30	72			2		
1166	243	80/08/30	0304:20	0305:05	80	470	6600		5	45, 1	M
1167	243	80/08/30	0529:30	0529:45	60	104	750		2	45, 3	M
1168	243	80/08/30	0623:05	0624:45	190	97			2		
1169	243	80/08/30	0647:20	0647:50	100	197	3550		5	45, 4	M
4419	243	80/08/30	0803:10	0809:15	520	122	6702		2	146, 16	I
1170	243	80/08/30	0950:55	0951:10	60	66			5		
1171	243	80/08/30	1236:50	1243:00	620	208	14260		2	45, 6	M
1172	243	80/08/30	1922:30	1922:49	60	99			2		
1173	244	80/08/31	0012:10	0012:50	220	174	6160		2	45, 8	
1174	244	80/08/31	0316:05	0316:30	65	85			2		
1175	244	80/08/31	0840:55	0841:15	60	94			2		
1176	244	80/08/31	0923:20	0923:50	90	1255	14220		10	45, 9	
1177	244	80/08/31	0925:00	0925:35	205	1115	27675		10	45, 9	
1178	244	80/08/31	0959:05	1000:20	90	94			2		
1179	244	80/08/31	1059:30	1100:25	180	51			2		
1180	244	80/08/31	1237:40	1239:40	295	99	5458		10	45, 11	
1181	244	80/08/31	1247:55	1248:50	120	7360	91200	2346	15	45, 11	
1182	244	80/08/31	1251:00	1252:15	170	3673	1.24E+05	2346	15	45, 11	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1183	244	80/08/31	1302:35	1302:55	60	65			2		
1184	244	80/08/31	1324:45	1329:30	300	1791	1.89E+05		5	45, 12	M
1185	244	80/08/31	1730:00	1730:29	60	64			2		
1186	244	80/08/31	1749:10	1749:18	14	205	849		5	45, 13	M
1187	245	80/09/01	0001:51	0001:51	37	164	1446		5	45, 14	
1188	245	80/09/01	0345:20	0345:35	25	70			2		
1189	245	80/09/01	0521:00	0523:45	380	161	12165		2	45, 16	
1190	245	80/09/01	0639:44	0640:16	48	71			2		
1191	245	80/09/01	0701:31	0701:40	27	85			2		
1192	245	80/09/01	0921:03	0921:11	20	84			2		
1193	245	80/09/01	0937:51	0939:14	600	90			2		
1194	245	80/09/01	1122:48	1123:02	60	86			2		
1195	245	80/09/01	1255:00	1256:03	115	86			2		AX
1196	245	80/09/01	1410:34	1410:41	18	70			2		AX
1197	245	80/09/01	1723:55	1724:40	80	179	1920		5	46, 1	
1198	245	80/09/01	1854:15	1855:05	140	122	2380		2	46, 2	
1199	245	80/09/01	2232:55	2233:15	80	130	560		2	46, 3	
1200	246	80/09/02	0015:40	0016:25	180	147	2520		5	46, 4	
1201	247	80/09/03	0135:50	0136:15	60	120	1080		2	46, 5	
1202	247	80/09/03	0138:00	0138:30	60	81			2		
1203	247	80/09/03	0316:55	0318:20	120	71			2		
1204	247	80/09/03	0510:45	0512:30	195	82			2		
1205	247	80/09/03	0633:40	0635:20	160	42			2		
1206	247	80/09/03	1420:30	1421:20	100	285	9300		5	46, 6	M
1207	247	80/09/03	1736:15	1737:05	75	110	825		2	46, 8	
1208	247	80/09/03	1858:55	1859:30	50	104	500		2	46, 9	
1209	247	80/09/03	2051:10	2056:30	540	121	12420		2	46, 10	
1210	248	80/09/04	0155:05	0201:20	795	12860	1.11E+06		10	46, 11	
1211	248	80/09/04	0246:35	0248:55	170	73			2		
1212	248	80/09/04	0301:15	0301:40	60	71			2		
1213	248	80/09/04	1057:15	1057:30	40	130	760		2	46, 2	
1214	248	80/09/04	1106:00	1106:10	30	87			2		
1215	248	80/09/04	2215:00	2216:54	440	1801	1.20E+05	2645	5	46, 3	
1216	249	80/09/05	0011:45	0011:55	35	84			2		
1217	250	80/09/06	0900:40	0901:15	100	132			2	46, 14	SN
1218	250	80/09/06	0955:25	0956:25	110	57			2		
* 1219	251	80/09/07	0322:30	0323:40	225	287	5625		5	46, 15	M
* 1220	252	80/09/08	0501:05	0503:50	505	3346	1.99E+05		10	47, 1	M
* 1221	252	80/09/08	0545:10	0545:20	95	78			2		
* 1222	252	80/09/08	1043:20	1043:50	70	72			2		
* 1223	252	80/09/08	1442:55	1443:50	95	135	2945		2	47, 2	
* 1224	253	80/09/09	0146:20	0147:00	100	67			2		
* 1225	253	80/09/09	1527:55	1530:30	175	80			2		
1226	253	80/09/09	2320:45	2321:35	115	75			2		
1227	254	80/09/10	2152:40	2157:35	1030	310	34680		2	47, 3	
1228	255	80/09/11	0142:55	0146:15	305	72	2135		2	47, 5	
1229	255	80/09/11	0634:45	0635:30	80	104	2080		2	47, 6	
1230	255	80/09/11	0748:40	0748:50	75	48			2		
1231	255	80/09/11	2215:00	2216:00	60	106	780		2	47, 7	
1232	256	80/09/12	0047:00	0052:10	500	81	4500		2	47, 8	
1233	256	80/09/12	0546:00	0546:35	260	350	12480		5	47, 9	
1234	257	80/09/13	0922:05	0922:45	140	139	2800		5	47, 11	
1235	257	80/09/13	2144:05	2145:10	115	48	345		2		



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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1236	263	80/09/19	0727:10	0727:45	70	111	910		5	47, 12	
1237	264	80/09/20	0256:00	0256:55	190	77			2		
1238	264	80/09/20	1409:40	1410:00	175	99			2		
1239	264	80/09/20	1938:45	1940:40	180	95			2		
1240	264	80/09/20	2013:15	2014:30	235	163	3878		2	47, 13	
1241	264	80/09/20	2119:50	2121:55	435	185	10875		10	47, 14	AX
1242	264	80/09/20	2342:50	2344:30	175	65			2		
1243	265	80/09/21	0111:15	0111:40	70	69			2		
5480	265	80/09/21	1058:03	1058:18	92	99			2		
1244	266	80/09/22	0539:00	0540:00	180	152	6480		5	47, 15	
1245	266	80/09/22	2022:10	2022:55	185	70			2		
1246	266	80/09/22	2136:20	2136:50	110	73			2		
1247	267	80/09/23	0221:25	0222:30	180	76			2		
1248	267	80/09/23	0549:35	0550:25	165	82			2		
1249	267	80/09/23	2152:30	2153:50	170	36			2		
1250	268	80/09/24	0353:05	0353:30	115	44			2		
1251	268	80/09/24	0727:20	0732:47	825	720	60200		10	48, 1	M
1252	268	80/09/24	1226:30	1226:45	55	152	800		2	48, 2	M
1253	269	80/09/25	1631:15	1633:35	500	147			2		
1254	269	80/09/25	2145:10	2145:20	40	99			2		
1255	270	80/09/26	0859:15	0859:35	70	73			2		
1256	270	80/09/26	1037:40	1037:50	50	349	2800		5	48, 3	
1257	270	80/09/26	1517:45	1521:00	210	100	840		2	48, 4	
1258	271	80/09/27	0156:30	0157:30	125	90			2		
1259	271	80/09/27	1459:20	1459:40	65	148	1820		5	48, 5	
1260	271	80/09/27	2314:55	2315:20	65	96			2		
1261	272	80/09/28	0711:35	0712:15	75	128	450		2	48, 6	
1262	272	80/09/28	2324:30	2324:50	60	71			2		
1263	273	80/09/29	0041:55	0042:05	25	71			2		
1264	273	80/09/29	0218:40	0219:35	50	87			2		
1265	273	80/09/29	0504:00	0505:05	210	161	7560		2	48, 7	
1266	273	80/09/29	2239:15	2240:40	105	715	7245		10	48, 8	
1267	273	80/09/29	2244:35	2245:55	180	201	3960		5	48, 8	
1268	274	80/09/30	1148:20	1149:15	435	558	14790		5	48, 9	
1269	275	80/10/01	0022:35	0023:10	75	60			2		
1270	275	80/10/01	0035:50	0037:55	235	136	2585		5	48, 10	
1271	275	80/10/01	1009:50	1010:40	80	42			2		
1272	275	80/10/01	1304:05	1306:05	190	65			2		
1273	275	80/10/01	1506:15	1507:15	170	142	3570		5	48, 11	
1274	275	80/10/01	2001:00	2002:35	310	62	1240		2	48, 12	
1275	276	80/10/02	0156:15	0159:05	370	83	3700		2	48, 13	
1276	276	80/10/02	0312:25	0313:20	140	141	5320		5	48, 14	
1277	277	80/10/03	0820:30	0822:00	250	115	2750		2	48, 15	
1278	277	80/10/03	1735:30	1735:55	75	56			2		AX
1279	278	80/10/04	0512:55	0513:15	55	201	1375		2	48, 16	
1280	278	80/10/04	1643:05	1643:25	50	61			2		
1281	279	80/10/05	1251:10	1251:30	75	94			2		
1282	279	80/10/05	1603:18	1603:20	30	95			2		
1283	279	80/10/05	1614:03	1614:04	30	75			2		
1284	279	80/10/05	1754:40	1755:15	90	75			2		
1285	280	80/10/06	0120:15	0123:30	295	294	10915		5	49, 1	
1286	280	80/10/06	1436:00	1436:55	330	112	1320		5	49, 2	
1287	280	80/10/06	2114:35	2115:30	160	318	5280		5	49, 3	

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HXBBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX UH. #	FLARE TAPE#. FILE#	NOTES
1288	281	80/10/07	0007:15	0007:35	155	65			2		
1289	281	80/10/07	0029:40	0030:40	130	138	2210		2	49, 4	
1290	281	80/10/07	0203:40	0204:25	105	79			2		
1291	281	80/10/07	0302:35	0303:50	155	107	1240		2	49, 5	
1292	281	80/10/07	0926:25	0928:50	735	485	73500	2725	5	49, 6	
4281	281	80/10/07	1409:55	1412:50	595	479	27174		4	144, 1	I
4282	281	80/10/07	1422:10	1430:30	1049	241	20263		2	144, 1	I
4283	281	80/10/07	1502:40	1503:40	90	57			2	144, 1	I
1293	281	80/10/07	1558:15	1608:50	1162	119	17835	2712	2	201, 1	
1294	281	80/10/07	1719:55	1721:10	135	372	5265		5	49, 8	
1295	281	80/10/07	1855:00	1856:10	120	64			2		
1296	282	80/10/08	0138:15	0141:35	555	736		2725	5	49, 9	
1297	282	80/10/08	0206:10	0207:10	155	88			2		
1298	282	80/10/08	0258:00	0258:50	185	92			2		
1299	282	80/10/08	0334:05	0335:35	210	135			2	49, 10	
1300	282	80/10/08	0822:30	0823:30	125	75			2		
1301	282	80/10/08	0955:05	0956:00	135	66			2		
1302	282	80/10/08	1051:20	1052:35	155	88			2		
1303	282	80/10/08	1058:40	1059:50	155	74			2		
1304	282	80/10/08	1311:50	1313:15	180	79		2726	2		
1305	282	80/10/08	1411:35	1412:45	155	247	3565		5	49, 11	
1306	282	80/10/08	1534:45	1536:05	410	1070	72160	2717	5	49, 12	
1307	282	80/10/08	1914:25	1916:20	365	219	7665		5	49, 14	
1308	282	80/10/08	2022:30	2027:30	1350	2443	3.58E+05	2725	10	49, 15	M
1309	283	80/10/09	0742:05	0743:20	190	72			2		
1310	283	80/10/09	1109:35	1110:45	125	63			2		
1311	283	80/10/09	1123:25	1124:55	1440	26608	1.83E+06	2726	5	50, 1	
1312	283	80/10/09	1405:25	1406:10	85	78			2		
1313	283	80/10/09	1748:30	1749:45	360	184	4320		2	50, 2	
1314	283	80/10/09	1929:20	1929:55	90	143	1710		2	50, 3	
1315	283	80/10/09	2218:50	2219:59	190	202	8170		2	50, 4	
1316	284	80/10/10	0022:30	0023:50	180	70			2		
1317	284	80/10/10	0126:00	0126:50	130	156	1560		2	50, 5	
1318	284	80/10/10	0133:15	0133:50	190	77			2		
1319	284	80/10/10	0330:40	0333:15	320	91	4160		2	50, 6	
1320	284	80/10/10	0628:30	0631:50	600	76	3600		2	50, 7	
1321	284	80/10/10	0649:00	0650:30	180	96			2		
1322	284	80/10/10	1049:05	1050:45	830	495	43990	2725	5	50, 8	
1323	284	80/10/10	1126:05	1127:15	385	110	4620	2725	2	50, 9	
1324	284	80/10/10	1136:35	1137:20	135	66		2725	2		
1325	284	80/10/10	1713:10	1713:30	120	96		2726	2		
5668	284	80/10/10	1918:29	1918:46	34	206	1391		4	181, 1	I
1326	285	80/10/11	0452:55	0454:23	150	68		2726	2		
1327	285	80/10/11	0503:10	0506:55	355	78	1775	2726	2	50, 10	
1328	285	80/10/11	0610:00	0610:40	80	298	2960		5	50, 11	
1329	285	80/10/11	0814:25	0815:30	145	91		2726	2		
1330	285	80/10/11	0819:00	0819:45	70	116	1330	2726	2	50, 12	
1331	285	80/10/11	1303:35	1304:40	130	84			2		
1332	285	80/10/11	1405:55	1408:45	435	91	6090		10	50, 13	AX
1333	285	80/10/11	1740:00	1741:40	215	1606	62995	2725	5	50, 14	
1334	285	80/10/11	2015:05	2018:35	305	102	3355	2724	2	50, 15	
1335	285	80/10/11	2343:50	2346:20	310	109	4340	2724	2	50, 16	
1336	286	80/10/12	0006:10	0007:10	150	72			2		

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OF POOR QUALITY.

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1337	286	80/10/12	0156:25	0157:10	85	142	1785	2724	2	51, 1	
1338	286	80/10/12	0158:40	0159:25	110	193	1650	2724	2	51, 1	
1339	286	80/10/12	0429:25	0430:10	85	78		2713	2		
1340	286	80/10/12	0559:45	0601:00	155	92			2		
1341	286	80/10/12	0726:45	0728:00	240	156	5280		2	51, 2	
1342	286	80/10/12	0806:15	0807:00	95	75			2		
1343	286	80/10/12	0927:20	0931:20	230	75	840	2725	2	51, 3	
1344	286	80/10/12	1047:30	1048:10	120	70			2		
1345	286	80/10/12	1218:50	1219:30	95	114	855		2	51, 4	
1346	286	80/10/12	1552:50	1553:55	150	697	13050	2725	5	51, 5	
1347	286	80/10/12	2148:10	2148:55	105	74			2		
1348	287	80/10/13	0311:25	0312:10	100	75		2724	2		
1349	287	80/10/13	0323:20	0324:10	75	167	1425	2724	2	51, 6	
1350	287	80/10/13	0411:35	0416:40	600	756	88800	2725	5	51, 7	
1351	287	80/10/13	0616:40	0617:45	205	729	22960	2717	5	51, 8	
1352	287	80/10/13	0742:55	0745:35	320	76	960	2724	2	, 9	
1353	287	80/10/13	0749:30	0751:35	310	69	630	2724	2	51, 9	
1354	287	80/10/13	0821:10	0821:55	190	76		2724	2		
1355	287	80/10/13	0940:50	0943:51	781	1982	1.16E+05	2724	5	51, 10	M
1356	287	80/10/13	1110:20	1111:40	160	70			2		
1357	287	80/10/13	1357:20	1357:45	60	90			2		
1358	287	80/10/13	1547:50	1548:20	85	122	1627	2725	2	51, 11	
1359	287	80/10/13	1842:55	1844:15	190	59			2		
1360	287	80/10/13	2009:25	2010:05	125	74		2725	2		
1361	287	80/10/13	2012:20	2013:25	170	62			2		
1362	287	80/10/13	2018:30	2019:00	65	126	1625	2717	2	51, 12	
1363	287	80/10/13	2034:30	2035:45	170	204	3740	2717	5	51, 13	
1364	287	80/10/13	2213:45	2215:30	250	289		2717	2	51, 14	
1365	287	80/10/13	2321:40	2321:55	60	133		2724	2	51, 15	
1366	287	80/10/13	2338:20	2339:35	95	75		2725	2		
1367	287	80/10/13	2345:40	2347:10	300	80		2725	2	51, 16	
1368	288	80/10/14	0010:45	0011:30	125	175		2736	5	52, 1	M
1369	288	80/10/14	0237:10	0237:45	60	162		2724	2	52, 2	
1370	288	80/10/14	0245:05	0245:30	350	266		2724	5	52, 3	
1371	288	80/10/14	0253:00	0257:40	440	75		2724	2	52, 4	
1372	288	80/10/14	0412:55	0413:15	35	712		2724	5	52, 5	
1373	288	80/10/14	0544:15	0546:15	515	399		2725	5	52, 6	SN
1374	288	80/10/14	0557:50	0608:55	2110	39583			15	52, 6	M
1375	288	80/10/14	0800:50	0801:35	110	248			2	52, 7	
1376	288	80/10/14	0805:50	0808:05	300	94			2	52, 8	
1377	288	80/10/14	0919:15	0919:40	55	70			2		
1378	288	80/10/14	0942:55	0943:50	195	167			5	52, 9	
1379	288	80/10/14	1100:30	1101:55	180	78			2		
1380	288	80/10/14	1344:00	1345:00	205	147			2	52, 10	
1381	288	80/10/14	1400:25	1403:50	295	310		2724	2	52, 11	
1382	288	80/10/14	1548:00	1549:30	155	83			2		
1383	288	80/10/14	1553:00	1553:50	100	83			2		
1384	288	80/10/14	1857:00	1858:00	120	90		2724	2		
1385	288	80/10/14	2203:45	2204:05	50	81			2		
1386	288	80/10/14	2222:00	2223:05	95	177	380		2	52, 12	
1387	288	80/10/14	2224:15	2224:50	80	84			2		
1388	289	80/10/15	0057:00	0057:45	95	93			2		
1389	289	80/10/15	0107:00	0107:55	80	95			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1390	289	80/10/15	0116:25	0116:50	90	329	1800		5	52, 13	
1391	289	80/10/15	0229:40	0230:25	135	157	3915		2	52, 14	
1392	289	80/10/15	0240:00	0240:45	65	160	715	2725	5	52, 15	
1393	289	80/10/15	0303:40	0305:20	255	102	9180		2	52, 16	
1394	289	80/10/15	0309:50	0310:10	115	127	1035		2	52, 16	
1395	289	80/10/15	0423:10	0423:25	45	90		2741	2		
5696	289	80/10/15	0627:27	0630:06	187	82			2		I
5697	289	80/10/15	0640:12	0640:48	120	74			2		I
1396	289	80/10/15	0805:20	0806:30	140	87		2724	2		
1397	289	80/10/15	1036:50	1037:20	115	73			2		
1398	289	80/10/15	1116:20	1117:05	140	90			2		
1399	289	80/10/15	1122:05	1122:35	140	70			2		
1400	289	80/10/15	1204:40	1205:05	50	63			2		
1401	289	80/10/15	1242:05	1247:10	710	531	83780	2724	5	53, 1	
1402	289	80/10/15	1529:45	1530:45	195	71	975		2	53, 2	
1403	289	80/10/15	1548:50	1549:45		152	3400		2	53, 3	M, IS, ES
1404	289	80/10/15	2021:35	2022:05	90	91			2		
1405	289	80/10/15	2030:50	2031:30	70	89			2		
1406	289	80/10/15	2344:35	2346:15	150	88			2		
1407	290	80/10/16	0453:20	0453:55	90	94			2		
1408	290	80/10/16	0750:40	0751:15	170	97			2		
1409	290	80/10/16	0935:50	0936:30	150	87			2		
1410	290	80/10/16	1339:55	1340:10	40	107	549	2734	2	53, 4	
1411	290	80/10/16	1651:50	1652:55	145	130	1740	2724	2	53, 5	
1412	290	80/10/16	2013:45	2014:20	65	110	910		2	53, 6	
1413	290	80/10/16	2015:50	2016:35	95	89			2		
1414	290	80/10/16	2345:50	2346:35	120	399	6480	2724	5	53, 7	
1415	291	80/10/17	1039:00	1039:55	190	164	1900		5	53, 8	
1416	291	80/10/17	1102:25	1103:00	70	73			2		
1417	291	80/10/17	1200:05	1200:15	105	86			2		
1418	291	80/10/17	1339:45	1341:20	185	71		2725	2		
5698	291	80/10/17	1349:02	1349:33	90	147	2365		2	181, 15	I
1419	291	80/10/17	1837:50	1838:40	110	72			2		
1420	291	80/10/17	2012:20	2013:00	200	442	13200	2744	5	53, 9	
1421	291	80/10/17	2136:55	2143:35	545	80	5450		2	53, 10	
1422	291	80/10/17	2154:20	2155:10	125	73		2744	2		
1423	291	80/10/17	2218:00	2218:20	65	83		2744	2		
1424	291	80/10/17	2336:00	2336:15	205	524	23985	2744	5	53, 11	
1425	291	80/10/17	2353:00	2353:15	30	121	240	2744	2	53, 12	
1426	292	80/10/18	0125:10	0125:40	80	74			2		
1427	292	80/10/18	0137:55	0142:00	330	167	7920	2744	2	53, 13	ES
1428	292	80/10/18	0236:35	0239:55	325	250	5200	2725	5	53, 14	
1429	292	80/10/18	0318:45	0319:55	135	147	2430		2	53, 15	
1430	292	80/10/18	0358:00	0358:10	180	82		2744	2		
1431	292	80/10/18	0416:20	0416:55	145	94			2		
1432	292	80/10/18	0425:55	0427:00	165	119	1815	2725	2	53, 16	
1433	292	80/10/18	0438:20	0439:25	200	286	5000	2725	2	54, 1	
1434	292	80/10/18	0539:45	0540:10	75	69			2		
1435	292	80/10/18	0542:00	0543:00	145	71			2		
1436	292	80/10/18	0731:40	0732:00	55	67			2		
1437	292	80/10/18	0739:50	0741:20	130	76			2		
5704	292	80/10/18	0939:40	0939:51	26	130	888		3	182, 4	I
5705	292	80/10/18	1040:26	1044:20	382	291	20075		5	182, 5	I

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5706	292	80/10/18	1117:05	1117:31	82	86			2		I
5707	292	80/10/18	1252:42	1253:09	109	107	896		2	182, 6	I
5708	292	80/10/18	1506:54	1507:15	174	183	3048		2	182, 7	I
1438	292	80/10/18	1522:45	1525:10	200	211	6400	2744	5	54, 2	
1439	292	80/10/18	1819:30	1823:25	1770	370	35400	2744	5	54, 3	
1440	292	80/10/18	2023:20	2023:30	45	95		2744	2		
1441	292	80/10/18	2130:10	2130:35	220	212	7260	2744	5	54, 4	SN
1442	292	80/10/18	2142:20	2143:30	150	154	3000	2744	2	54, 5	
1443	292	80/10/18	2145:35	2146:00	560	1061	43120	2744	5	54, 5	M
1444	292	80/10/18	2329:20	2330:25	190	82		2744	2		
1445	293	80/10/19	0046:25	0046:45	115	140	1610	2739	2	54, 6	
4300	293	80/10/19	0230:55	0231:05	45	89			2		I
4301	293	80/10/19	0301:10	0301:45	180	72			2		I
1446	293	80/10/19	0313:20	0313:50	180	112	1440	2744	2	54, 7	
1447	293	80/10/19	0358:45	0359:45	75	78			2		
1448	293	80/10/19	0532:35	0540:40	865	155	9515		2	54, 8	
1449	293	80/10/19	0552:30	0553:05	70	144	700	2744	5	54, 8	
1450	293	80/10/19	0608:25	0608:40	80	161	1200	2739	2	54, 9	
4302	293	80/10/19	0713:25	0713:35	35	75			2		I
1451	293	80/10/19	0743:00	0743:30	70	75			2		
1452	293	80/10/19	0746:55	0747:35	80	75			2		
4303	293	80/10/19	0754:10	0759:40	400	73	1696		2	144, 8	I
1453	293	80/10/19	0848:20	0849:10	150	109	1800		2	54, 10	
1454	293	80/10/19	0900:25	0900:55	190	77		2744	2		
1455	293	80/10/19	0916:30	0917:10	230	174	2070	2744	2	54, 11	
1456	293	80/10/19	0937:55	0938:45	165	910	20460	2739	5	54, 12	M
1457	293	80/10/19	1237:55	1238:30	230	275	16330		5	54, 13	
1458	293	80/10/19	1525:55	1526:30	70	76			2		
1459	294	80/10/20	0901:30	0903:00	180	201		2744	2	54, 14	
1460	294	80/10/20	1032:50	1033:35	420	101			2	54, 15	
1461	294	80/10/20	1149:40	1151:05	130	66			2		
1462	294	80/10/20	1831:15	1832:10	245	4922	60025	2744	10	54, 16	M
1463	294	80/10/20	2305:35	2306:15	85	168	975		2	55, 1	
1464	295	80/10/21	0042:40	0043:35	95	230	2375	2744	2	55, 2	
1465	295	80/10/21	0536:40	0537:30	180	80		2744	2		
1466	297	80/10/23	0735:00	0738:25	940	4365	3.77E+05		10	55, 3	M
1467	297	80/10/23	1032:50	1033:55	270	1174	40500		10	55, 4	
1468	297	80/10/23	1042:55	1043:45	155	91			2		
1469	297	80/10/23	1225:25	1226:10	185	235	4810		5	55, 5	
5712	298	80/10/24	0029:50	0031:04	166	93			2		I
1470	299	80/10/25	0536:50	0539:30	405	247	23490		5	55, 6	M
1471	299	80/10/25	0819:45	0820:30	205	148	6150		2	55, 7	SN
1472	299	80/10/25	0955:55	0956:20	695	1325	1.95E+05		5	55, 8	M, SN, ES
1473	300	80/10/26	0033:20	0033:35	30	99			2		
1474	300	80/10/26	0101:35	0102:00	125	83			2		
1475	300	80/10/26	0714:15	0714:30	35	70			2		
1476	300	80/10/26	0716:20	0717:20	110	108	5720		2	55, 9	
1477	300	80/10/26	1439:45	1441:25	145	85			2		
1478	300	80/10/26	2238:30	2240:12	280	104	2800		2	55, 10	
1479	301	80/10/27	1129:25	1129:30	40	83			2		
1480	302	80/10/28	0045:55	0046:25	90	81			2		
1481	302	80/10/28	0223:30	0224:00	55	73			2		
1482	302	80/10/28	1216:05	1216:20	50	97			2		

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1483	302	80/10/28	2128:05	2129:05	90	80			2		
4304	303	80/10/29	0148:15	0148:30	55	66			2		I
1484	304	80/10/30	0031:00	0031:40	105	66			2		
1485	304	80/10/30	1525:00	1525:50	120	110	720		2	55, 11	
1486	304	80/10/30	1759:20	1800:45	280	136	4760		2	55, 12	
1487	304	80/10/30	1916:30	1917:05	110	114	1650		2	55, 13	
1488	304	80/10/30	2049:05	2052:55	765	40	6885		2	55, 14	
1489	305	80/10/31	0201:55	0202:30	80	103	960		2	55, 15	
1490	305	80/10/31	0204:35	0204:50	40	1018	22400		5	55, 15	
1491	305	80/10/31	0205:35	0206:15	100	94			2	55, 15	
5715	305	80/10/31	0319:59	0322:07	462	116	5119		2	182, 11	I
1492	305	80/10/31	0936:20	0937:10	245	135	3185		2	55, 16	
1493	305	80/10/31	1254:15	1254:30	35	204	875		5	56, 1	
1494	305	80/10/31	2051:35	2052:00	65	67			2		
1495	305	80/10/31	2249:45	2250:15	50	73			2		
1496	306	80/11/01	0518:30	0519:15	180	72			2		
1497	306	80/11/01	1419:45	1420:00	45	72			2		
1498	306	80/11/01	1915:05	1919:15	565	1004			5	56, 2	M
1499	307	80/11/02	0205:40	0211:05	580	241		2772	2	56, 3	
1500	307	80/11/02	1418:35	1419:00	115	1627	21390	2774	10	56, 6	M
1501	307	80/11/02	1603:40	1604:50	135	100	1485	2772	2	56, 7	
5716	307	80/11/02	1904:50	1905:27	76	155	2257		4	182, 12	I
5717	307	80/11/02	1910:53	1911:52	102	69			2		I
1502	307	80/11/02	2358:15	0001:55	540	133	12420	2773	5	56, 8	
1503	308	80/11/03	0157:10	0159:25	885	469		2776	5	56, 9	
1504	308	80/11/03	0331:15	0338:10	960	1002	1.14E+05	2773	10	56, 10	M
1505	308	80/11/03	1548:40	1554:35	600	74	4800		2	56, 11	
1506	308	80/11/03	1949:15	1950:00	145	85			2		
1507	308	80/11/03	2117:45	2118:10	40	92			2		
1508	308	80/11/03	2257:25	2257:50	50	62			2		
1509	309	80/11/04	0131:35	0132:05	60	62			2		
1510	309	80/11/04	0148:20	0149:50	1260	475	1.34E+05		5	56, 12	
1511	309	80/11/04	1000:45	1001:10	30	90			2		
5718	309	80/11/04	1501:30	1501:48	63	362	3035		3	182, 13	I
5719	309	80/11/04	1505:08	1507:13	247	191	17432		2	182, 14	EN, I
1512	309	80/11/04	1551:40	1551:50	145	81			2		
1513	309	80/11/04	1602:10	1602:25	40	113	560		2	56, 13	
1514	309	80/11/04	1812:50	1813:10	50	98			2		
1515	309	80/11/04	1952:55	1954:25	195	97			2		
1516	309	80/11/04	2050:40	2052:30	230	97	2990		2	56, 14	
1517	309	80/11/04	2114:15	2114:45	50	105	450		2	56, 15	
1518	309	80/11/04	2123:30	2123:50	35	86			2		
1519	310	80/11/05	0135:10	0135:45	65	130	1690		2	56, 16	
1520	310	80/11/05	0139:35	0141:00	150	64			2		
1521	310	80/11/05	0304:30	0305:25	125	94			2		
1522	310	80/11/05	0505:05	0506:35	145	95			2		
1523	310	80/11/05	0635:35	0636:00	90	546	5220		5	57, 1	
1524	310	80/11/05	0825:35	0832:30	1020	241	68340		2	57, 2	M, EN
1525	310	80/11/05	1131:20	1132:25	260	229	7800		2	57, 3	
1526	310	80/11/05	1234:20	1234:35	25	70			2		
1527	310	80/11/05	1236:55	1237:10	65	94			2		
1528	310	80/11/05	1405:55	1406:15	900	1176	2.32E+05		2	57, 4	M, ES
5720	310	80/11/05	1544:42	1545:34	85	87			2		I

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1529	310	80/11/05	1721:10	1722:15	110	62			2		
1530	310	80/11/05	1934:40	1936:20	755	202			2	57, 5	
1531	310	80/11/05	2123:05	2123:10	30	69			2		
1532	310	80/11/05	2126:10	2126:35	60	80			2		
1533	310	80/11/05	2225:40	2226:30	230	3151	62560		10	57, 6	M
1534	310	80/11/05	2232:10	2233:05	350	12730	4.61E+05		10	57, 6	
1535	310	80/11/05	2257:40	2258:00	55	95			2		
1536	310	80/11/05	2301:05	2301:20	45	447	2205		5	57, 7	
1537	310	80/11/05	2345:10	2347:20	160	110	2080		2	57, 9	
1538	310	80/11/05	2353:00	2353:25	70	85			2		
1539	311	80/11/06	0026:25	0027:15	230	139	2300		2	57, 10	
1540	311	80/11/06	0115:35	0116:30	180	70			2		
1541	311	80/11/06	0128:25	0147:30	2700	1072	3.00E+05		5	57, 11	M
1542	311	80/11/06	0322:05	0322:50	105	74			2		
1543	311	80/11/06	0324:10	0348:00	7395	155347	7.39E+07		15	202, 2	IS, IN, EN
1544	311	80/11/06	0626:20	0627:25	330	172	11550		5	57, 12	
1545	311	80/11/06	0647:30	0650:55	640	2613	2.37E+05		10	57, 13	M
1546	311	80/11/06	0950:15	0950:30	140	188	2100		5	57, 14	
4305	311	80/11/06	1000:35	1001:05	45	71			2		I
1547	311	80/11/06	1139:05	1145:05	515	98	4120		2	57, 15	
1548	311	80/11/06	1226:30	1234:25	490	497	56350		2	57, 16	M, ES
1549	311	80/11/06	1404:15	1416:20	750	1553	1.16E+05		5	58, 1	M, ES
1550	311	80/11/06	1454:25	1501:30	3840	1553	2.46E+05		5	58, 2	M, ES, IN
1551	311	80/11/06	1624:50	1625:15	105	123	1365		2	58, 3	
1552	311	80/11/06	1713:45	1727:22	1570	1236	1.62E+05		5	58, 4	M, ES
1553	311	80/11/06	1758:55	1759:00	85	137	1615		2	58, 4	
1554	311	80/11/06	1931:55	1941:15	975	5614	8.79E+05		5	58, 5	M, EN
1555	311	80/11/06	2024:40	2026:50	300	227	7800		2	58, 6	
1556	311	80/11/06	2037:05	2038:50	455	353	25480		2	58, 6	
1557	311	80/11/06	2100:15	2101:00	115	69			2		
1558	311	80/11/06	2104:35	2104:45	25	88			2		
1559	311	80/11/06	2217:00	2221:55	1240	1020	2.33E+05		5	58, 7	M
1560	311	80/11/06	2243:20	2249:15	565	101	3955		2	58, 7	
1561	311	80/11/06	2343:05	2344:10	65	70			2		
1562	312	80/11/07	0121:10	0123:20	275	116	2200		2	58, 8	
1563	312	80/11/07	0134:55	0204:55	2170	86574	1.18E+07		15	58, 8	M, EN
4386	312	80/11/07	0135:45	0136:20	75	256	1125		2	58, 8	I
4387	312	80/11/07	0137:15	0139:05	220	85	1980		2	58, 8	I
4388	312	80/11/07	0141:50	0142:30	195	98			2	58, 8	I
4389	312	80/11/07	0145:35	0146:25	160	139	4160		2	58, 8	I
4390	312	80/11/07	0149:40	0150:40	180	406	5940		5	58, 8	I
4391	312	80/11/07	0156:35	0157:40	155	291	5735		5	58, 8	I
1564	312	80/11/07	0332:15	0333:40	215	307	7955		5	58, 9	
1565	312	80/11/07	0437:35	0454:30	1745	272	71545		2	58, 10	
1566	312	80/11/07	0516:20	0516:40	50	99			2	58, 10	
1567	312	80/11/07	0651:10	0654:45	280	70	1400		2	58, 11	
1568	312	80/11/07	0807:55	0808:20	80	226	2880		2	58, 12	
1569	312	80/11/07	0812:10	0812:25	85	102	595		2	58, 12	
1570	312	80/11/07	0817:35	0817:45	20	106	260		2	58, 12	
1571	312	80/11/07	1000:40	1001:25	70	88			2		
1572	312	80/11/07	1007:35	1007:55	40	154	880		2	58, 13	M
1573	312	80/11/07	1132:40	1134:40	500	365	26000		2	58, 14	
1574	312	80/11/07	1259:55	1301:55	710	953	1.61E+05		2	59, 1	SA

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1575	312	80/11/07	1315:30	1316:35	170	89			2		
1576	312	80/11/07	1408:50	1410:30	235	178	3995		2	59, 2	M,ES
1577	312	80/11/07	1439:20	1440:00	525	1267	1.03E+05		5	59, 3	SA
1578	312	80/11/07	1454:25	1455:05	140	89			2		
1579	312	80/11/07	1536:05	1536:50	255	654	12750		5	59, 4	
1580	312	80/11/07	1713:00	1713:15	40	113	720		2	59, 5	
1581	312	80/11/07	1726:10	1733:20	2280	6859	1.70E+06		10	59, 6	M, DG
1582	312	80/11/07	1849:30	1850:10	80	71			2		
1583	312	80/11/07	1849:40	1850:05	65	62			2		
1584	312	80/11/07	2032:45	2033:00	60	80			2		
1585	312	80/11/07	2223:50	2224:15	50	76			2		
1586	312	80/11/07	2226:00	2227:25	490	78	4900		2	59, 7	
1587	313	80/11/08	0118:15	0119:25	300	489	31800		5	59, 8	M
1588	313	80/11/08	0157:45	0158:40	180	157	7200		5	59, 10	
1589	313	80/11/08	0457:30	0503:00	685	940	50005		2	59, 11	
1590	313	80/11/08	1121:20	1121:40	40	302	2480		5	59, 12	
1591	313	80/11/08	1123:30	1125:10	140	1283	10080		5	59, 12	M
1592	313	80/11/08	1438:40	1440:20	180	103	540		2	59, 14	
1593	313	80/11/08	1447:55	1452:15	360	2460	78840		10	59, 15	M,ES
1594	313	80/11/08	1536:30	1537:00	75	73			2		
1595	313	80/11/08	1540:45	1541:00	55	132	495		2	59, 16	
1596	313	80/11/08	1617:25	1619:25	245	125	3430		2	60, 1	
1597	313	80/11/08	1727:15	1728:45	205	305	7790		5	60, 2	
1598	313	80/11/08	2051:00	2052:30	310	124	4340		2	60, 3	
1599	313	80/11/08	2110:15	2113:00	300	194	6000		2	60, 4	M
1600	313	80/11/08	2116:15	2116:45	55	379	935		5	60, 4	M,EN
1601	313	80/11/08	2330:20	2330:25	185	97			2		
1602	314	80/11/09	0135:35	0136:35	115	100			2		
1603	314	80/11/09	0430:30	0430:30	75	95			2		SA
1604	314	80/11/09	0459:00	0459:15	60	100			2		
1605	314	80/11/09	0632:35	0633:00	50	67			2		
1606	314	80/11/09	0635:25	0635:50	55	65			2		
1607	314	80/11/09	0817:45	0818:20	50	80			2		
1608	314	80/11/09	0819:40	0820:10	110	99			2		
1609	314	80/11/09	1132:10	1134:05	190	128	3040		5	60, 5	
1610	314	80/11/09	1403:30	1403:55	60	80			2		EN
1611	314	80/11/09	1622:20	1622:30	30	78			2		
1612	314	80/11/09	1624:50	1625:00	30	90			2		
1613	314	80/11/09	1702:50	1703:10	55	68			2		
1614	314	80/11/09	1713:45	1715:00	140	146	4060		2	60, 6	
1615	314	80/11/09	1758:25	1758:40	35	672	2555		5	60, 7	
1616	314	80/11/09	1759:45	1759:55	25	456	550		5	60, 7	
1617	314	80/11/09	1911:05	1912:05	120	222	6840		2	60, 8	
1618	314	80/11/09	1915:05	1921:10	560	111	6720		2	60, 9	
1619	314	80/11/09	1928:00	1928:55	95	130	1045		2	60, 9	
1620	314	80/11/09	2032:25	2033:25	150	63			2		
1621	314	80/11/09	2052:50	2053:25	65	63			2		
1622	314	80/11/09	2054:45	2055:00	50	87			2		
1623	314	80/11/09	2216:20	2217:00	145	89			2		
1624	315	80/11/10	0258:45	0259:15	280	1359	41440		5	60, 10	M
1625	315	80/11/10	0426:35	0426:35	100	87			2		SA
1626	315	80/11/10	0438:20	0440:00	190	73			2		
1627	315	80/11/10	0447:05	0447:35	80	61			2		



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1628	315	80/11/10	0804:10	0808:10	460	341	47840		5	60, 12	
1629	315	80/11/10	0929:55	0935:00	435	97	20445		2	60, 13	
1630	315	80/11/10	1300:35	1301:25	115	92			2		
1631	315	80/11/10	1606:55	1611:50	660	783	62040		5	60, 14	M
1632	315	80/11/10	1835:20	1835:30	30	129	390		2	60, 15	
1633	315	80/11/10	2150:10	2150:45	65	226	1820		5	60, 16	
1634	315	80/11/10	2151:20	2157:50	570	132	13110		2	60, 16	
1635	315	80/11/10	2351:55	2352:25	60	102	1080		2	61, 1	
1636	316	80/11/11	0625:30	0627:15	320	526	54080		5	61, 2	
1637	316	80/11/11	0815:10	0815:40	95	326	3800		5	61, 3	M
1638	316	80/11/11	0922:30	0924:15	245	158			2	61, 4	SA
1639	316	80/11/11	0941:00	0941:35	50	92			2		
1640	316	80/11/11	1212:30	1213:10	90	70			2		
1641	316	80/11/11	1439:20	1440:50	185	143	6845		2	61, 5	M, EN
1642	316	80/11/11	1518:50	1519:40	300	1791	72300		5	61, 6	M
1643	316	80/11/11	1552:10	1552:10	440	202			2	61, 8	SA
1644	316	80/11/11	1711:05	1712:40	250	88	52500		2	61, 9	
1645	316	80/11/11	1722:55	1724:20	310	3694	1.07E+05		10	61, 10	M
1646	316	80/11/11	1737:30	1742:30	950	4382	9.48E+05		15	61, 10	EN
1647	316	80/11/11	1908:10	1909:00	225	125	8550		2	61, 11	
1648	316	80/11/11	2016:00	2016:05	10	84			2		
1649	316	80/11/11	2041:30	2041:50	40	112	280		5	61, 12	
1650	316	80/11/11	2042:25	2045:25	420	429	24360		2	61, 12	
1651	316	80/11/11	2053:00	2054:35	820	894	2.66E+05		5	61, 12	M, EN
1652	316	80/11/11	2339:35	2341:00	545	388	19075		5	61, 13	
1653	316	80/11/11	2352:20	2353:25	115	82			2		
1654	317	80/11/12	0002:50	0003:40	155	200	4030		2	61, 13	
1655	317	80/11/12	0236:00	0236:25	170	120	3400		2	61, 14	SA
1656	317	80/11/12	0242:55	0249:30	965	968	1.05E+05		5	61, 14	M
1657	317	80/11/12	0300:10	0300:35	230	161	460		5	61, 14	
1658	317	80/11/12	0311:00	0312:25	160	103	2720		2	61, 14	
1659	317	80/11/12	0317:45	0318:05	85	86			2		
1660	317	80/11/12	0424:55	0425:05	45	79			2		
1661	317	80/11/12	0445:50	0452:00	1045	50219	4.17E+06		15	61, 15	M, EN
4306	317	80/11/12	0801:35	0802:10	65	66			2		I
1662	317	80/11/12	0918:35	0919:45	165	96			2		
1663	317	80/11/12	0943:40	0945:35	150	83			2		
1664	317	80/11/12	1102:20	1102:55	195	198			2	61, 16	
1665	317	80/11/12	1659:45	1702:15	390	653	64740		5	62, 1	
4307	317	80/11/12	1732:25	1735:35	372	66	2421		2	144, 9	I
1666	317	80/11/12	2003:00	2003:40	135	68			2		
1667	317	80/11/12	2138:55	2139:55	125	80			2		
1668	317	80/11/12	2151:50	2152:45	215	890	34615		5	62, 2	M
1669	317	80/11/12	2230:35	2231:10	50	99			2		
1670	317	80/11/12	2334:10	2344:25	755	155	9815		2	62, 4	
1671	317	80/11/12	2351:20	2355:55	795	102	23055		2	62, 4	
1672	318	80/11/13	0007:10	0008:20	305	95	3660		2	62, 4	
1673	318	80/11/13	0049:15	0057:00	1750	6915	9.45E+05		10	62, 5	
1674	318	80/11/13	0257:10	0257:25	50	86			2		
1675	318	80/11/13	0301:30	0314:30	1360	234	57120		2	62, 6	
1676	318	80/11/13	0937:35	0946:40	545	1593	2.72E+05		10	62, 7	M, EN
1677	318	80/11/13	1912:00	1916:40	620	483	1.34E+05		2	62, 8	EN
1678	318	80/11/13	2031:05	2031:35	120	88			2		

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1679	319	80/11/14	0102:35	0104:50	195	76			2		
1680	319	80/11/14	0108:05	0108:50	130	60			2		
1681	319	80/11/14	0110:35	0117:30	515	93	2060		2	62, 9	
1682	319	80/11/14	0130:25	0131:25	140	71			2		
1683	319	80/11/14	0248:30	0249:20	195	61			2		
1684	319	80/11/14	0256:50	0258:40	180	209	6840		2	62, 10	
1685	319	80/11/14	0454:40	0455:40	145	794	27985		5	62, 11	M
1686	319	80/11/14	0731:00	0748:20	7945	396	8.10E+05		5	202, 1	M, SN, EN
1687	319	80/11/14	1252:30	1253:30	195	109	2730		2	62, 12	M
1688	319	80/11/14	1428:10	1429:40	40	78			2		
1689	319	80/11/14	1516:50	1517:30	80	90			2		
1690	319	80/11/14	1539:35	1539:50	775	1499	1.81E+05		5	62, 13	M
1691	319	80/11/14	1557:30	1558:20	180	99			2		
1692	319	80/11/14	1601:50	1602:20	100	120	8000		2	62, 13	
1693	319	80/11/14	1827:00	1830:25	1140	716	1.35E+05		5	62, 14	
1694	319	80/11/14	1847:35	1849:40	400	817	38400		5	62, 14	
1695	319	80/11/14	2211:45	2216:05	485	131	15035		2	62, 15	
1696	319	80/11/14	2350:30	2359:10	930	3520	1.17E+06		5	62, 16	M
1697	320	80/11/15	0100:55	0101:10	45	77			2		
1698	320	80/11/15	0559:30	0559:55	60	150	1140		2	63, 1	
1699	320	80/11/15	0755:10	0755:55	70	143	1120		2	63, 2	
1700	320	80/11/15	1335:50	1337:10	330	134	7920		2	63, 3	
1701	320	80/11/15	1412:45	1414:40	760	109	9120		2	63, 4	
1702	320	80/11/15	1516:15	1543:30	2860	12939	5.65E+06		10	63, 5	M
1703	320	80/11/15	1715:45	1716:20	100	123	1300		2	63, 6	
1704	320	80/11/15	1950:10	1959:45	1475	1593	3.05E+05		5	63, 7	M
1705	320	80/11/15	2133:15	2133:45	65	120	1495		5	63, 9	
1706	320	80/11/15	2145:40	2146:25	220	1219	37400		5	63, 10	
1707	320	80/11/15	2322:10	2323:40	105	69			2		
1708	321	80/11/16	0301:05	0301:55	155	1115	41540		5	63, 11	M
1709	321	80/11/16	0311:00	0311:45	110	182	3080		5	63, 11	
1710	321	80/11/16	0901:15	0904:25	720	3909	3.90E+05		10	63, 12	M
1711	321	80/11/16	1048:20	1048:45	80	135	2320		2	63, 14	
1712	321	80/11/16	1330:45	1331:00	70	78			2		
1713	321	80/11/16	1819:00	1819:10	80	132	1680		2	63, 15	
1714	321	80/11/16	1907:45	1908:20	70	75			2		
1715	321	80/11/16	1953:40	1955:20	120	70			2	63, 16	
1716	321	80/11/16	1955:50	1957:35	145	69			2	63, 16	
1717	321	80/11/16	1959:00	1959:20	35	101	525		2	63, 16	
1718	321	80/11/16	2000:35	2001:15	170	622	12920		5	63, 16	
1719	321	80/11/16	2005:45	2006:55	230	169	6900		2	63, 16	
1720	321	80/11/16	2016:35	2022:20	960	1572	2.28E+05		10	63, 16	
1721	321	80/11/16	2147:35	2148:40	175	66			2		
1722	322	80/11/17	0542:10	0546:25	500	160	15332		2	64, 1	
1723	322	80/11/17	0917:35	0921:35	380	131	7600		2	64, 2	
1724	322	80/11/17	1333:50	1337:50	1170	3110	7.21E+05		5	64, 3	M
1725	322	80/11/17	1544:10	1546:25	200	207	6720		5	64, 4	
1726	322	80/11/17	1548:15	1548:45	66	110	799		2	64, 4	
1727	322	80/11/17	2023:25	2024:30	119	203	4882		2	64, 5	
1728	323	80/11/18	0418:45	0420:10	115	92			2		
1729	323	80/11/18	0544:15	0545:50	165	1002	26065		5	64, 6	M
1730	323	80/11/18	0614:00	0614:40	110	72			2		
1731	323	80/11/18	0716:15	0718:20	535	1445	55943		10	64, 8	M

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5721	323	80/11/18	0904:24	0905:38	133	79			2		I
1732	323	80/11/18	1003:15	1003:50	125	114			2		SN,ES
1733	323	80/11/18	1037:50	1039:00	135	99			2		
1734	323	80/11/18	1140:55	1141:15	180	289	9100		5	64, 10	M
1735	323	80/11/18	1145:20	1145:35	55	76			2		
1736	323	80/11/18	1416:55	1417:25	56	140	585		2	64, 11	M
1737	323	80/11/18	1450:20	1452:05	590	6890	3.42E+05		10	64, 12	M
1738	323	80/11/18	1534:30	1535:05	100	71			2		
1739	323	80/11/18	1652:45	1653:05	90	95			2		
1740	323	80/11/18	2213:35	2214:25	90	71			2		
1741	324	80/11/19	0029:35	0030:15	102	292	5215		5	64, 14	
1742	324	80/11/19	0241:40	0242:00	45	83			2		
1743	324	80/11/19	0434:25	0439:05	300	321	33035		2	64, 15	EN
1744	324	80/11/19	0533:00	0542:05	1008	1480	2.80E+05		5	64, 16	M
1745	324	80/11/19	0851:40	0852:00	50	95			2		
1746	324	80/11/19	1236:15	1237:15	127	440	14894		5	65, 1	M
1747	324	80/11/19	1335:55	1336:10	26	150	927		5	65, 2	
1748	324	80/11/19	1336:30	1336:50	44	147	1020		5	65, 2	
1749	324	80/11/19	1447:50	1448:05	40	129	927		2	65, 3	
1750	324	80/11/19	1706:05	1706:15	34	121	431		15	65, 4	
1751	324	80/11/19	2122:15	2122:50	59	111	887		2	65, 5	
1752	324	80/11/19	2132:15	2143:35	1159	78	11934		2	65, 6	
1753	324	80/11/19	2202:40	2203:00	47	107	682		2	65, 7	
1754	324	80/11/19	2204:00	2204:35	195	78			2	65, 7	
1755	325	80/11/20	0528:35	0529:05	61	145	1751		2	65, 8	
1756	326	80/11/21	0743:05	0743:30	134	2676	52056		5	65, 9	M
1757	327	80/11/22	0529:35	0532:55	341	87	2756		2	65, 10	
1758	327	80/11/22	0541:45	0543:55	528	297	36494		5	65, 10	
5730	327	80/11/22	1528:50	1529:01	43	62			2		I
1759	328	80/11/23	0209:35	0209:45	20	69			2		
1760	328	80/11/23	1839:50	1844:40	623	183	27754		2	65, 11	M,EN
1761	328	80/11/23	2117:25	2117:40	72	137	1422		2	65, 12	
1762	329	80/11/24	0228:35	0229:10	10	80	84		2		
1763	329	80/11/24	0840:15	0840:35	45	71			2		
1764	329	80/11/24	0843:00	0843:30	93	110	1288		2	65, 13	
1765	329	80/11/24	1345:05	1348:20	611	203	21457		2	65, 14	
1766	329	80/11/24	1433:35	1434:00	195	275	7559		5	65, 15	M
1767	329	80/11/24	1701:00	1702:05	168	123	3177		2	66, 1	
1768	329	80/11/24	1928:10	1931:10	1091	254	37758		10	66, 2	
1769	329	80/11/24	2251:55	2252:10	110	75			10		
1770	330	80/11/25	0228:15	0230:00	165	95			2		
1771	330	80/11/25	0649:40	0650:10	89	108	995		2	66, 3	
1772	330	80/11/25	0654:50	0656:20	158	205	6086		5	66, 4	
1773	330	80/11/25	0901:15	0902:25	149	113	1650		2	66, 5	
1774	331	80/11/26	0813:05	0813:30	45	79			2		
1775	331	80/11/26	1036:15	1036:25	20	81			2		
1776	331	80/11/26	1604:15	1604:35	125	80			2		
5731	332	80/11/27	0232:52	0233:10	30	74			2		I
1777	332	80/11/27	0951:30	0952:15	75	72			2		
1778	332	80/11/27	1136:20	1136:40	54	143	853		2	66, 6	
1779	333	80/11/28	0147:30	0147:50	110	39			2		
1780	333	80/11/28	0937:40	0949:00	3473	544	1.97E+05		5	66, 7	EN
1781	333	80/11/28	1230:00	1230:55	115	71			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1782	333	80/11/28	1429:50	1436:20	1311	405	1.18E+05		10	66, 8	
1783	334	80/11/29	1440:20	1440:55	71	139	1439		5	66, 9	
1784	335	80/11/30	0630:30	0631:00	85	72			2		
1785	335	80/11/30	1447:00	1447:35	92	112	891		2	66, 10	
1786	335	80/11/30	1512:05	1513:00	150	180	10687		5	66, 11	EN
1787	336	80/12/01	0009:25	0011:35	165	108	2711		2	66, 12	
1788	336	80/12/01	0625:05	0626:00	190	84			2		
1789	336	80/12/01	1132:35	1133:50	215	77	1448		2	66, 13	
1790	336	80/12/01	1329:30	1330:15	155	76			2		
1791	336	80/12/01	1929:30	1930:50	165	1313	20077		5	66, 14	M
1792	337	80/12/02	0619:15	0619:50	128	139	4566		2	66, 15	
1793	337	80/12/02	0624:45	0627:10	310	184	10269		2	66, 15	
1794	337	80/12/02	0745:40	0746:10	40	316	1862		5	66, 16	
1795	337	80/12/02	0748:40	0749:05	35	594	5067		10	66, 16	
1796	337	80/12/02	1118:55	1123:45	1362	6489	1.23E+06		6	202, 2	M
1797	337	80/12/02	1236:55	1243:10	938	814	2.02E+05		5	67, 1	
1798	337	80/12/02	1727:40	1728:15	80	99			2		
1799	337	80/12/02	1920:30	1921:40	255	160	5481		2	67, 2	
1800	337	80/12/02	2354:45	2358:00	338	124	6382		2	67, 3	
1801	338	80/12/03	0022:55	0023:35	93	103	1080		2	67, 4	
1802	338	80/12/03	1058:05	1058:15	60	93			2		
1803	339	80/12/04	0610:45	0611:40	145	99			2		
1804	339	80/12/04	0614:35	0615:10	65	74			2		
1805	339	80/12/04	1119:10	1119:20	70	127	775		2	67, 5	
1806	339	80/12/04	1228:40	1229:25	105	85			2		
1807	340	80/12/05	0443:45	0444:15	129	575	14852		5	67, 6	
1808	340	80/12/05	1106:00	1106:25	60	78			2		
1810	340	80/12/05	1131:50	1132:10	98	135	1368		2		
1809	340	80/12/05	1226:35	1126:50	113	342	4673		5	67, 7	
5753	341	80/12/06	1134:26	1135:03	61	89			2		I
1811	341	80/12/06	1241:45	1242:20	75	72			2		
1812	341	80/12/06	1310:55	1311:25	65	78			2		
1813	341	80/12/06	1445:25	1446:50	177	133	4203		5	67, 8	M
1814	341	80/12/06	2150:15	2151:10	123	105	1027		2	67, 9	
1815	341	80/12/06	2158:25	2159:00	58	130	1030		2	67, 10	
1816	341	80/12/06	2216:30	2217:00	85	80			2		
1817	341	80/12/06	2338:40	2338:45	25	97			2		
1818	342	80/12/07	0149:55	0150:25	100	85			2		
1819	343	80/12/08	0721:30	0722:10	100	73			2		
1820	344	80/12/09	0124:50	0128:10	332	78	1422		2	67, 11	
1821	344	80/12/09	2142:05	2142:35	45	91			2		
1822	345	80/12/10	0311:05	0312:35	120	137	2904		2	67, 12	
1823	345	80/12/10	0914:10	0919:25	619	95	7452		2	67, 13	
1824	345	80/12/10	0940:15	0941:10	185	81			2		
1825	345	80/12/10	2006:10	2006:50	82	115	1374		2	67, 14	
1826	345	80/12/10	2144:05	2146:20	208	102	2096		2	67, 15	
1827	345	80/12/10	2148:30	2150:15	142	104	1469		2	67, 15	
1828	346	80/12/11	0710:30	0711:25	122	111	2221		2	67, 16	
1829	346	80/12/11	0718:30	0719:05	71	107	964		2	67, 16	
1830	346	80/12/11	0722:20	0722:40	35	77			2		
1831	346	80/12/11	1247:50	1248:50	125	72			2		
1832	346	80/12/11	1507:35	1508:05	65	84			2		
1833	347	80/12/12	1955:30	1957:15	140	99			2		

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1834	347	80/12/12	2121:50	2123:50	180	51			2		
1835	348	80/12/13	0305:15	0306:20	195	75			2		
1836	348	80/12/13	0543:30	0544:05	80	86			2		
1837	349	80/12/14	1053:00	1053:45	65	80			2		
1838	349	80/12/14	1408:05	1408:25	45	83			2		
1839	349	80/12/14	1450:10	1450:40	70	73			2		
1840	349	80/12/14	1452:35	1454:55	204	118	3027		2	68, 1	
1841	349	80/12/14	1504:35	1505:05	96	179	3396		2	68, 1	M
1842	350	80/12/15	0051:05	0052:20	135	116	3548		2	68, 2	
1843	350	80/12/15	0740:05	0740:25	35	85			2		
1844	350	80/12/15	1817:40	1817:45	18	133	367		5	68, 3	
1845	350	80/12/15	2135:55	2136:25	68	202	1668		5	68, 4	
1846	351	80/12/16	0101:05	0101:25	143	765	20890		5	68, 5	M
1847	351	80/12/16	0352:40	0353:00	50	81			2		
1848	351	80/12/16	0906:30	0907:40	285	213	14856		5	68, 6	
1849	351	80/12/16	0954:35	0956:25	363	768	1.11E+05		5	68, 7	M, SN, ES
1850	351	80/12/16	1451:45	1453:30	379	3958	1.00E+05		10	68, 8	M, ES
1851	352	80/12/17	0422:50	0423:35	91	324	3865		5	68, 9	M
1852	352	80/12/17	0845:05	0845:45	118	3601	43674		15	68, 10	M
1853	352	80/12/17	1132:20	1132:55	55	166	1114		5	68, 12	M
1854	352	80/12/17	1206:50	1208:30	670	2365	2.05E+05		5	68, 13	M, SA
1855	352	80/12/17	2255:10	2257:35	242	404	24271		5	68, 14	
1856	353	80/12/18	0147:15	0147:40	169	217	7289		2	68, 15	SN
1857	353	80/12/18	1921:10	1921:20	41	6038	27052		15	68, 16	
1858	353	80/12/18	1933:55	1934:05	35	98			2		
1859	354	80/12/19	1608:05	1627:15	1161	128	32516		5	69, 1	ES
1860	354	80/12/19	2012:15	2012:40	138	288	11757		5	69, 2	
1861	356	80/12/21	0359:50	0400:30	127	113	2506		2	69, 4	
1862	356	80/12/21	2133:05	2133:15	37	108	764		2	69, 5	
1863	357	80/12/22	0204:35	0205:50	80	71			2		
1864	357	80/12/22	1501:05	1501:20	64	108	1184		2		
1865	358	80/12/23	2114:10	2115:50	262	1600	72137		10	69, 6	
1866	359	80/12/24	1002:25	1002:40	30	75			2		
1867	359	80/12/24	1054:30	1054:55	45	70			2		
1868	359	80/12/24	2230:40	2230:45	40	95			2		
1869	360	80/12/25	0125:55	0128:00	571	165	20124		10	69, 7	
1870	360	80/12/25	0649:00	0649:35	70	94			2		
1871	360	80/12/25	1912:45	1913:25	145	119	2339		2	69, 8	
1872	360	80/12/25	2031:00	2031:30	60	81			2		
1873	360	80/12/25	2051:35	2052:00	53	130	1646		2	69, 9	
1874	361	80/12/26	0032:25	0033:40	130	72			2		
1875	361	80/12/26	0330:15	0330:30	22	109	205		2	69, 10	
1876	361	80/12/26	0623:30	0624:05	79	184	3360		5	69, 11	
1877	361	80/12/26	0815:30	0815:40	20	70			2		
1878	362	80/12/27	0822:40	0822:55	30	80			2		
1879	362	80/12/27	2241:15	2241:40	44	167	1351		5	69, 15	
1880	362	80/12/27	2329:50	2330:40	180	99			5		
4261	363	80/12/28	0250:40	0250:45	12	125			4	143, 7	I
1881	363	80/12/28	0451:30	0452:35	145	74			2		
1882	363	80/12/28	1129:05	1130:45	115	121	1519		2	69, 16	
1883	363	80/12/28	1431:25	1431:40	29	110	415		2	70, 1	
1884	363	80/12/28	1712:00	1712:45	124	209	4578		5	70, 2	
1885	363	80/12/28	1757:20	1757:55	45	110	739		2	70, 3	

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1886	363	80/12/28	1903:55	1906:45	337	1889	86541		10	70, 4	
1887	363	80/12/28	1919:45	1920:10	49	208	1398		5	70, 4	
1888	363	80/12/28	2145:10	2145:20	30	74			2		
1889	363	80/12/28	2229:25	2229:40	45	82			2		
1890	363	80/12/28	2243:40	2243:50	30	65			2		
1891	363	80/12/28	2339:00	2340:00	219	167	5003		5	70, 5	
1892	363	80/12/28	2355:30	2355:50	85	277	2647		5	70, 6	
1893	364	80/12/29	0105:45	0106:40	420	225	34304		10	70, 7	
1894	364	80/12/29	0132:05	0132:15	20	76			2		
1895	364	80/12/29	0424:10	0424:55	135	778	12088		10	70, 8	
1896	364	80/12/29	1031:40	1033:20	107	305	6075		5	70, 9	ES
1897	364	80/12/29	1125:00	1127:30	336	202	12794		2	70, 10	
1898	364	80/12/29	1305:30	1305:40	57	357	5293		5	70, 11	
1899	364	80/12/29	1425:50	1426:40	130	86			2		
1900	364	80/12/29	1429:50	1430:05	205	206	3885		5	70, 12	
1901	364	80/12/29	2032:05	2032:35	90	72			2		
5779	365	80/12/30	1917:47	1917:58	40	81			2		I

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1902	1	81/01/01	0051:50	0052:55	105	83			5		
1903	2	81/01/02	0038:55	0038:55	70	94			10		SA
1904	3	81/01/03	0036:45	0038:20	120	95			2		
1905	3	81/01/03	0252:10	0253:15	130	87			2		
1906	3	81/01/03	1550:30	1551:15	150	92			2		
1907	3	81/01/03	1838:20	1838:40	65	62			2		
1909	4	81/01/04	0024:55	0024:55	70	137			10	70, 14	SA
1908	4	81/01/04	0922:40	0923:30	88	163	1436		2	70, 13	
1910	5	81/01/05	1619:10	1619:20	539	186	25680		2	70, 15	SN
1911	5	81/01/05	2002:34	2006:05	288	80			2	71, 1	
1912	5	81/01/05	2012:50	2013:20	85	212	3707		2	71, 1	
1913	5	81/01/05	2138:45	2139:05	96	757	15314		5	71, 2	M
1914	6	81/01/06	0426:15	0428:40	515	163	17562		5	71, 4	
1915	6	81/01/06	1202:15	1202:10	250	133	4712		2	71, 5	
1916	7	81/01/07	1534:55	1535:10	90	67			2		
1917	8	81/01/08	1223:25	1224:40	135	132	3686		2	71, 6	
1918	8	81/01/08	1313:45	1314:50	125	77			2		
1919	10	81/01/10	0458:00	0459:10	243	335	17215		5	71, 7	
1920	10	81/01/10	1255:15	1256:10	127	452	9207		5	71, 8	
1921	11	81/01/11	0958:50	0959:15	40	79			2		
1922	11	81/01/11	1200:20	1200:35	50	83			2		
1923	12	81/01/12	0512:40	0513:10	64	112	466		2	71, 9	
1924	12	81/01/12	0515:10	0515:25	45	97			2	71, 9	
1925	14	81/01/14	0937:40	0938:25	135	86			2		
1926	14	81/01/14	1232:50	1234:10	165	95			2		
1927	14	81/01/14	2058:50	2100:25	193	340	17334		5	71, 10	
1928	14	81/01/14	2226:50	2226:55	93	114	1609		10	71, 11	
1929	15	81/01/15	1721:30	1722:00	65	69			2		
1933	16	81/01/16	0307:35	0307:55	45	81			2		
1930	16	81/01/16	0606:40	0607:20	55	82			2		
1931	16	81/01/16	0657:00	0657:25	25	74			2		
1932	16	81/01/16	0834:35	0835:00	54	336	4641		5	71, 12	
1934	17	81/01/17	1423:15	1423:45	75	65			2		
1935	22	81/01/22	1516:50	1517:30	60	83			2		
1936	24	81/01/24	0712:30	0713:30	150	68			2		
1937	25	81/01/25	0109:25	0110:35	99	423	3774		5	71, 13	
1938	25	81/01/25	0120:30	0121:50	170	95			2		
1939	25	81/01/25	0217:50	0221:30	387	613	71410		5	71, 14	
1940	25	81/01/25	0406:35	0408:35	510	341	22496		2	71, 15	
1941	25	81/01/25	0615:05	0616:40	210	180	12305		2	71, 16	EN
1942	25	81/01/25	0709:25	0710:50	274	254	14968		2	72, 1	
1943	25	81/01/25	0744:15	0747:00	551	31930	2.35E+06		10	72, 2	M
5795	25	81/01/25	0830:28	0830:41	113	753	16886		3	184, 9	I
5796	25	81/01/25	0832:34	0833:24	109	262	9083		2	184, 9	I
5797	25	81/01/25	0846:36	0905:31	2597	1281	1.16E+06		15	184, 10	I
1944	25	81/01/25	1029:10	1029:40	95	83			2		
1945	25	81/01/25	1047:35	1048:40	142	105	2013		2	72, 3	
1946	25	81/01/25	1639:35	1647:10	656	556	53094		2	72, 4	M
1947	25	81/01/25	1959:10	2000:00	133	117	1566		2	72, 5	
1948	25	81/01/25	2308:05	2308:50	190	76			2		
1949	25	81/01/25	2321:20	2322:30	223	114	3267		2	72, 6	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
1950	26	81/01/26	0205:15	0209:30	668	826	68507		5	72, 7	M
1951	26	81/01/26	0250:05	0255:40	734	394	55083		5	72, 7	
1952	26	81/01/26	0402:10	0402:55	125	79			2		
1953	26	81/01/26	0407:55	0411:50	326	177	10049		2	72, 8	
1954	26	81/01/26	0723:00	0723:25	68	147	1549		2	72, 9	
1955	26	81/01/26	1013:10	1015:00	255	178	3400		2	72, 10	
1956	26	81/01/26	1029:35	1031:00	210	305	12068		2	72, 10	
1957	26	81/01/26	1234:05	1235:05	139	240	8201		2	72, 11	M
1958	26	81/01/26	1318:40	1319:10	70	65			2		
1959	26	81/01/26	1321:50	1321:55	80	63			2		
1960	26	81/01/26	2005:35	2006:00	45	82			2		
1961	27	81/01/27	0031:05	0031:30	35	74			2		
1962	27	81/01/27	0402:00	0402:30	110	83			2		
1963	27	81/01/27	0532:45	0535:20	386	305	17629		2	72, 12	
1964	27	81/01/27	1540:55	1542:15	91	197	4386		5	72, 13	M, EN
1965	27	81/01/27	2312:30	2312:50	55	99			2		
1966	28	81/01/28	0204:05	0213:35	1239	381	88176		5	72, 14	
1967	28	81/01/28	0244:45	0245:35	70	90			2		
1968	28	81/01/28	0409:35	0413:20	1101	10450	1.08E+06		12	72, 15	M
1969	28	81/01/28	0516:05	0516:25	45	63			2		
1970	28	81/01/28	0831:45	0832:00	60	98			2		
1971	28	81/01/28	1953:00	1953:20	40	100			2		
1972	29	81/01/29	0024:15	0024:55	72	226	2320		5	72, 16	
1973	29	81/01/29	0026:10	0028:20	330	181	11001		2	72, 16	
1974	29	81/01/29	0408:45	0409:20	274	310	9721		5	73, 1	
1975	29	81/01/29	1023:00	1023:20	45	53			2		
1976	29	81/01/29	1209:20	1209:40	50	89			2		
1977	29	81/01/29	1444:00	1444:05	47	110	755		2	73, 2	
1978	29	81/01/29	1445:20	1446:15	81	540	7390		10	73, 2	M
1980	30	81/01/30	0010:05	0010:30	35	83			2		
1981	30	81/01/30	0320:25	0320:50	50	76			2		
1982	30	81/01/30	0327:10	0328:00	91	140	1215		2	73, 3	
1983	30	81/01/30	0401:25	0401:30	20	69			2		
1984	30	81/01/30	0848:55	0849:20	99	118	1795		2	73, 4	
1985	30	81/01/30	1038:35	1038:55	60	61			2		
1986	30	81/01/30	1121:35	1122:05	94	247	3284		5	73	M
1987	30	81/01/30	1622:40	1623:15	77	121	1204		2	73, 6	
1988	30	81/01/30	2119:30	2120:15	70	64			2		
1989	31	81/01/31	0703:20	0703:40	50	93			2		
1990	31	81/01/31	1029:30	1030:35	222	104	3898		2	73, 7	
1991	31	81/01/31	1932:35	1933:35	112	723	9611		5	73, 8	
1992	31	81/01/31	2358:55	2359:35	198	274	5120		5	73, 9	
1993	32	81/02/01	0334:55	0335:20	47	179	1487		2	73, 10	
1994	32	81/02/01	0346:25	0346:40	75	97			2		
1995	33	81/02/02	1241:30	1241:50	30	69			2		
1996	33	81/02/02	1242:20	1242:30	25	62			2		
1997	33	81/02/02	1549:25	1549:50	125	65			2		
1998	33	81/02/02	1904:15	1904:55	70	70			2		
1999	36	81/02/05	1003:40	1004:05	45	76			2		
2000	36	81/02/05	2225:15	2234:15	1653	120	17321		5	74, 1	
2001	37	81/02/06	0027:05	0028:20	178	176	8172		2	74, 2	M
2002	37	81/02/06	1621:05	1621:15	47	137	980		2	74, 3	
2003	37	81/02/06	2057:35	2057:55	65	75			2		



HXRBS EVENT	UCY	START DATE YY/MM/DD	START TIME HH:MM:SS	ORIGINAL PAGE #1 QUALITY			TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
				PEAK TIME HH:MM:SS	POSITION SEC	QUALITY RATE C/S					
2004	37	81/02/06	2159:20	2200:00	164	187	9071		2	74, 4	
2005	37	81/02/06	2338:35	2339:15	132	327	6135		5	74, 6	M
2006	38	81/02/07	0117:05	0118:15	312	122	7502		5	74, 7	
2007	38	81/02/07	0319:00	0319:27	80	69			2		
2008	38	81/02/07	0325:45	0325:55	35	80			2		
2009	38	81/02/07	0332:35	0333:10	190	1135	32644		5	74, 8	M
2010	38	81/02/07	0503:30	0503:50	65	108	1131		2	74, 9	
2011	38	81/02/07	1348:15	1348:4^	103	2069	35404		10	74, 10	
2012	38	81/02/07	1352:55	1355:10	338	102	4009		2	74, 11	
2013	38	81/02/07	1534:20	1535:05	153	214	4402		5	74, 12	
2014	38	81/02/07	1708:25	1708:45	40	79			2		
2015	38	81/02/07	1754:55	1755:45	115	74			2	74, 13	
2016	38	81/02/07	1757:10	1757:45	105	101	1781		2	74, 13	
2017	38	81/02/07	1835:00	1835:10	220	447	26322		5	74, 14	SN
2018	38	81/02/07	1845:45	1845:55	35	87			2		
2019	38	81/02/07	1848:00	1849:35	130	143	1550		2	74, 15	
2020	38	81/02/07	2058:20	2058:30	162	256	6564		5	74, 16	
2021	38	81/02/07	2155:00	2155:50	208	84	3382		5	75, 1	
2022	38	81/02/07	2217:45	2218:50	19^	196	7164		2	75, 2	
2023	38	81/02/07	2225:10	2229:40	555	235	34125		2	75, 2	
2024	39	81/02/08	0103:00	0103:20	45	95			2	75, 3	
2025	39	81/02/08	0109:35	0110:50	287	171	9317		5	75, 3	
2026	39	81/02/08	0116:40	0117:20	84	143	2040		5	75, 3	
2027	39	81/02/08	0118:20	0120:30	222	150	3824		5	75, 3	
2028	39	81/02/08	0129:25	0137:35	555	138	7140		2	75, 3	
2029	39	81/02/08	0138:45	0140:40	306	602	29307		5	75, 3	
2030	39	81/02/08	0325:20	0329:20	437	866	71962		5	75, 4	
2031	39	81/02/08	0421:25	0422:20	166	423	11779		5	75, 5	
2032	39	81/02/08	0449:45	0450:05	45	77			2		
2033	39	81/02/08	0757:30	0757:50	55	89			2		
2034	39	81/02/08	0759:20	0759:45	60	87			2		
2035	39	81/02/08	0938:40	0939:10	68	784	3735		5	75, 6	
2036	39	81/02/08	0940:25	0940:55	125	425	2073		5	75, 6	
2037	39	81/02/08	1348:35	1349:35	153	307	8191		5	75, 7	
2038	39	81/02/08	1523:05	1523:20	35	82			2		
2039	39	81/02/08	1708:20	1708:30	20	142	575		2	75, 8	
2040	39	81/02/08	1839:50	1839:55	25	81			2		
2041	39	81/02/08	2027:45	2028:15	47	117	948		5	75, 9	
2042	39	81/02/08	2150:20	2153:25	336	228	15638		10	75, 10	
2043	40	81/02/09	0236:15	0237:30	130	88			2		
2044	40	81/02/09	0302:35	0302:50	50	80			2		
2045	40	81/02/09	0403:35	0414:05	985	140	27214		10	75, 11	AX
5798	40	81/02/09	1121:18	1121:49	64	1680	21656		9	184, 11	I
2046	40	81/02/09	1254:40	1255:00	31	62	210		2		
2047	40	81/02/09	1522:45	1523:25	90	68			2		
2048	40	81/02/09	1612:10	1612:15	25	60			2		
2049	40	81/02/09	1648:55	1649:30	115	73			2		
2050	40	81/02/09	2008:20	2009:10	170	67			5		
2051	40	81/02/09	2042:15	2051:15	758	101	5160		5	75, 12	
2052	40	81/02/09	2142:40	2143:40	313	244	18634		10	75, 13	
2053	40	81/02/09	2351:40	2352:05	60	62			2		
2054	41	81/02/10	0006:00	0006:45	95	58			2		
2055	41	81/02/10	0057:50	0058:55	150	92			5		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
2056	41	81/02/10	0138:25	0139:15	156	127	2966		2	75, 14	
2057	41	81/02/10	0141:25	0141:50	65	66			2	75, 14	
2058	41	81/02/10	0222:40	0223:45	135	965	22494		10	75, 15	
2059	41	81/02/10	0251:45	0252:35	205	510	7741		10	75, 16	
2060	41	81/02/10	0308:40	0309:20	110	160	3903		5	76, 1	M
2061	41	81/02/10	0316:00	0321:00	365	1217	31002		10	76, 1	
2062	41	81/02/10	0437:35	0438:30	165	71			2		
2063	41	81/02/10	0559:30	0601:10	190	284	6518		5	76, 2	
2064	41	81/02/10	0927:10	0927:30	81	130	850		5	76, 3	
2065	41	81/02/10	1333:25	1333:50	45	77			2		
2066	41	81/02/10	1913:25	1914:10	65	64			2		
2067	42	81/02/11	0119:20	0131:50	960	84	7361		2	76, 4	
2068	42	81/02/11	0245:15	0245:55	95	90			2		
2069	42	81/02/11	0610:35	0611:05	65	57			2		
2070	42	81/02/11	1053:05	1053:30	50	99			2		
2071	42	81/02/11	2003:05	2003:25	40	85			2		
2072	43	81/02/12	0121:35	0122:20	225	494	9845		5	76, 5	
2073	43	81/02/12	0412:50	0413:30	68	218	1982		5	76, 6	
2074	43	81/02/12	0432:55	0433:50	140	136	4553		2	76, 7	
5842	43	81/02/12	0929:17	0931:18	208	295	9988		3	185, 8	I
2075	43	81/02/12	1048:15	1049:15	137	360	8410		5	76, 8	
2076	43	81/02/12	1241:00	1242:20	169	1043	36119		10	76, 9	M
2077	43	81/02/12	1731:10	1731:25	75	125	1611		2	76, 11	M
2078	43	81/02/12	1809:25	1810:30	100	66			2		
2079	43	81/02/12	2000:25	2002:25	180	91			2		
2080	44	81/02/13	0042:15	0044:35	259	89	6504		2	76, 12	
2081	44	81/02/13	0412:45	0416:15	400	132	12355		2	76, 13	
2082	44	81/02/13	0549:40	0550:10	57	103	1471		2	76, 14	
2083	44	81/02/13	0614:30	0617:25	193	128	3102		2	76, 15	
2084	44	81/02/13	1406:10	1408:20	188	234	10187		2	76, 16	
2085	44	81/02/13	1701:40	1701:55	35	72			2		
5843	44	81/02/13	2159:43	2200:07	50	115	1257		2	185, 9	I
2086	45	81/02/14	1213:35	1214:15	120	96			2		
2087	46	81/02/15	0050:20	0050:55	201	342	11721		2	77, 1	
2088	46	81/02/15	0243:40	0244:05	65	137	2326		2	77, 2	
2089	46	81/02/15	1938:15	1938:45	86	104	1513		2	77, 3	
2090	46	81/02/15	2111:40	2112:10	112	458	33325		10	77, 4	M
2091	47	81/02/16	0239:25	0240:00	65	165	1810		2	77, 6	
2092	47	81/02/16	0546:35	0547:05	124	158	3215		2	77, 7	
2093	47	81/02/16	0550:55	0551:10	32	136	1045		2	77, 7	
2094	47	81/02/16	0840:15	0840:25	33	115	363		2	77, 8	
2095	47	81/02/16	1215:20	1215:50	293	146	5214		2	77, 9	
2096	47	81/02/16	1508:50	1509:05	43	107	1300		2	77, 10	
2097	48	81/02/17	0013:05	0014:15	155	106	2691		5	77, 11	
2098	48	81/02/17	0410:05	0411:00	96	143	2169		2	77, 12	
2099	48	81/02/17	2145:30	2146:30	451	9646	9.40E+05		15	77, 13	M
2100	49	81/02/18	1333:45	1334:00	77	289	2525		5	77, 14	
2101	49	81/02/18	1456:20	1456:40	30	73			2		
2102	49	81/02/18	1639:10	1639:25	217	239	6239		5	77, 15	
2103	49	81/02/18	2238:10	2238:50	60	71			2		
2104	50	81/02/19	0324:15	0337:15	2810	1906	1.17E+06		10	77, 16	M
2105	50	81/02/19	1419:25	1420:15	95	84			2		
2106	50	81/02/19	1951:35	1952:25	95	64			2		

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2107	50	81/02/19	2133:15	2133:25	41	240	1157		5	78, 1	
2108	50	81/02/19	2137:10	2138:00	118	150	2288		2	78, 1	
2109	51	81/02/20	0535:25	0536:05	75	65			2		
5844	51	81/02/20	0639:03	0645:51	2036	25356	5.90E+06		9	185, 10	M, I
2110	51	81/02/20	2232:15	2232:45	55	78			2		
2111	51	81/02/20	2253:45	2254:25	85	79			2		
2112	51	81/02/20	2301:30	2302:00	104	106	21835		2	78, 2	
2113	52	81/02/21	1553:45	1554:05	25	98			5		
2114	52	81/02/21	1632:10	1632:35	55	93			2		
2115	52	81/02/21	1852:55	1854:30	312	126	8555		5	78, 3	
2116	52	81/02/21	1902:10	1903:05	181	214	8437		5	78, 3	
2117	52	81/02/21	1934:50	1935:05	35	62			2		
2118	52	81/02/21	2030:45	2033:05	258	162	10545		5	78, 4	
2119	52	81/02/21	2208:20	2208:40	30	96			2		
2120	52	81/02/21	2220:20	2222:10	141	103	1325		2	78, 5	
2121	52	81/02/21	2227:00	2227:05	15	67			2		
2122	52	81/02/21	2229:35	2229:45	25	198	1042		2	78, 6	
5849	53	81/02/22	0000:51	0001:09	40	107	485		2	185, 13	I
5847	53	81/02/22	1543:56	1552:37	795	87	9876		2	185, 12	I
5848	53	81/02/22	1606:30	1606:51	64	71			2		I
2123	53	81/02/22	1904:40	1904:55	55	118	955		2	78, 7	
2124	53	81/02/22	2114:25	2115:15	60	98			2		
5850	54	81/02/23	0007:22	0007:41	102	68			2		I
2125	54	81/02/23	0024:50	0024:55	45	68			2		
2126	54	81/02/23	0616:10	0617:10	115	96			2		
2127	54	81/02/23	0652:35	0657:05	520	105	10026		4	78, 8	
2128	55	81/02/24	0008:30	0011:05	1525	8243	1.05E+06		15	78, 9	
2129	55	81/02/24	0629:20	0632:45	316	118	3515		2	78, 10	
5851	55	81/02/24	0755:15	0759:58	577	85	8245		2	185, 14	NO, I
5852	55	81/02/24	0817:52	0818:42	113	62			2		I
5853	55	81/02/24	0820:33	0821:35	94	433	11734		4	185, 15	EG, I
2130	55	81/02/24	1059:00	1059:20	610	131	14682		2	78, 11	SS
2131	55	81/02/24	1121:35	1121:55	50	157	1389		2	78, 12	
2132	55	81/02/24	1134:25	1134:45	40	73			2		
2133	55	81/02/24	1217:45	1226:35	1878	3276	1.59E+06		10	78, 13	SN
2134	55	81/02/24	1623:35	1624:15	60	76			2		
2135	55	81/02/24	1757:15	1759:05	588	62	364		2	78, 14	
2136	55	81/02/24	1855:40	1856:55	165	65			2		
2137	55	81/02/24	1932:45	1936:35	607	19518	3.43E+06		15	78, 15	M, EN
2138	55	81/02/24	2042:50	2044:25	186	216	8690		2	78, 16	
2139	56	81/02/25	0203:40	0204:30	101	356	10665		2	79, 1	M
2140	56	81/02/25	0241:05	0241:20	491	604	45724		5	79, 2	SN
2141	56	81/02/25	0434:10	0434:35	20	100			2		
2142	56	81/02/25	0446:55	0447:10	53	135	1475		10	79, 3	
2143	56	81/02/25	0804:45	0805:55	143	234	3768		5	79, 4	
2144	56	81/02/25	0922:55	0923:25	95	72			2		
2145	56	81/02/25	1400:55	1401:00	38	230	1586		2	79, 5	
2146	56	81/02/25	2232:10	2232:25	35	100			2		
2147	57	81/02/26	0813:55	0814:30	60	60			2		
2148	57	81/02/26	0926:45	0927:05	30	97			2		
2149	57	81/02/26	0934:50	0936:10	110	85			2		
2150	57	81/02/26	1227:15	1227:55	65	100			2		
2151	57	81/02/26	1238:30	1238:50	65	97			2		

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2152	57	81/02/26	1404:40	1405:10	65	76			2		
2153	57	81/02/26	1423:10	1425:55	497	22521	9.58E+05		15	79, 6	M
2154	57	81/02/26	1830:20	1847:05	2810	384	1.10E+05		10	79, 7	
2155	57	81/02/26	1920:15	1921:25	91	200	4090		5	79, 7	
2156	57	81/02/26	1922:25	1923:00	227	606	19379		10	79, 7	
2157	57	81/02/26	1930:05	1932:05	192	3728	78299		10	79, 7	M
2158	57	81/02/26	2006:05	2009:15	1964	215	58114		2	79, 7	SN
2159	57	81/02/26	2151:25	2151:50	50	84			2		
2160	57	81/02/26	2157:20	2157:40	45	62			2		
2161	57	81/02/26	2228:05	2228:15	37	128	899		2	79, 8	
2162	57	81/02/26	2327:40	2328:00	95	435	11519		10	79, 9	
2163	57	81/02/26	2331:30	2332:55	141	817	24594		10	79, 9	M
2164	58	81/02/27	0112:50	0114:15	135	105	2163		2	79, 11	
2165	58	81/02/27	0133:25	0135:10	214	1230	32854		10	79, 12	
5857	58	81/02/27	0456:33	0456:59	97	79			2		I
2166	58	81/02/27	0728:30	0728:45	30	68			2		
2167	58	81/02/27	1240:15	1240:35	70	66			2		
2168	58	81/02/27	1533:35	1534:40	121	108	3226		5	79, 13	
2169	58	81/02/27	1547:00	1547:05	15	70			2		
2170	58	81/02/27	1711:55	1712:35	70	81			5		
2171	58	81/02/27	2020:35	2023:20	422	60	2180		2	79, 14	
2172	58	81/02/27	2312:35	2315:10	1206	114	24778		2	79, 15	
2173	59	81/02/28	0440:00	0440:20	35	97			2		
2174	59	81/02/28	0629:35	0630:20	85	94			2		
2175	59	81/02/28	0903:55	0904:10	40	80			2		
2176	59	81/02/28	1204:20	1204:40	52	327			5	79, 16	
2177	59	81/02/28	1850:55	1851:25	105	66			2		
2178	60	81/03/01	0059:40	0100:15	110	75			2		
* 5393	60	81/03/01	1235:29	1235:31	9	277	573		15	173, 5	I
2179	61	81/03/02	0046:15	0047:15	210	126	2453		2	80, 1	
2180	61	81/03/02	0450:50	0451:00	30	61			2		
2181	61	81/03/02	1230:20	1231:30	140	77			2		
2182	61	81/03/02	1325:10	1326:50	160	145	4221		2	80, 2	M
2183	61	81/03/02	1334:20	1334:25	10	71			5		
2184	61	81/03/02	1518:35	1519:30	195	81			5		
2185	61	81/03/02	1842:00	1849:25	605	100	9799		2	80, 4	
2186	61	81/03/02	2300:30	2300:45	30	84			2		
2187	62	81/03/03	0656:25	0701:30	1364	133	40977		2	80, 5	SN
5860	62	81/03/03	1511:17	1511:39	41	74			3		I
2188	63	81/03/04	0117:20	0118:45	115	115	1492		2	80, 6	
2189	63	81/03/04	0400:20	0400:25	20	88			2		
2190	63	81/03/04	1320:00	1320:10	25	80			2		
5861	64	81/03/05	0423:35	0424:09	157	159	3967		2	186, 1	I
5862	64	81/03/05	0431:11	0431:42	252	70	9818		2	186, 1	I
5863	64	81/03/05	0709:31	0711:25	820	617	54590		4	186, 2	I
2191	64	81/03/05	1623:55	1630:55	1261	586	1.55E+05		10	80, 7	AX
2192	65	81/03/06	0203:45	0205:25	238	783	37239		5	80, 8	M
2193	65	81/03/06	0235:15	0236:05	100	156	2322		2	80, 8	
2194	65	81/03/06	0241:00	0245:20	517	814	88234		3	80, 8	
2195	65	81/03/06	1328:45	1329:05	45	71			2		
2196	66	81/03/07	0156:35	0157:10	50	101			2		
5865	66	81/03/07	1020:13	1020:55	67	65			2		I
2197	66	81/03/07	2248:25	2248:40	65	157	1805		2	80, 9	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
2198	67	81/03/08	0158:15	0158:50	75	80			2		
2199	67	81/03/08	0208:20	0209:40	130	84			2		
2200	67	81/03/08	0838:15	0838:35	60	77			2		
2201	67	81/03/08	2116:30	2117:35	270	75			2		
5866	67	81/03/08	2116:41	2117:29	174	73			2		I
2202	68	81/03/09	0642:10	0642:15	18	108	280		2	80, 10	
* 2203	69	81/03/10	0020:35	0021:10	65	478	6228		10	80, 11	
* 2204	69	81/03/10	0313:00	0314:35	160	139	1920		5		
* 2205	69	81/03/10	0622:05	0623:15	180	182			2		
* 2206	69	81/03/10	0831:30	0832:30	188	328	13826		5	80, 12	
* 2207	70	81/03/11	1143:15	1144:45	140	175			5		
* 2208	70	81/03/11	1150:10	1150:40	90	227	4197		5	80, 13	
* 2209	71	81/03/12	0134:55	0135:25	50	146			5		
* 2210	72	81/03/13	2057:55	2058:50	120	50			2		
* 2211	73	81/03/14	1042:25	1042:35	165	70			2		
* 2212	74	81/03/15	2347:55	2348:20	60	51			2		
* 2213	76	81/03/17	0805:22	0805:25	9	202	462		15	80, 14	AX
* 2214	78	81/03/19	0919:45	0920:00	30	178			5	80, 15	
* 2215	78	81/03/19	1238:45	1239:15	60	61			2		
* 2216	78	81/03/19	1330:45	1331:10	80	143	2118		2	80, 16	
* 2217	79	81/03/20	0536:55	0537:15	85	50			2		
* 2218	79	81/03/20	1955:45	1956:45	75	67			2		
* 2219	80	81/03/21	0029:37	0029:45	28	142	982		2	81, 1	
* 2220	80	81/03/21	0239:25	0241:35	180	65			2		
* 2221	80	81/03/21	0344:00	0344:15	75	353	4498		5	81, 2	
* 2222	80	81/03/21	2141:15	2142:15	130	170	4109		2	81, 3	
* 2223	81	81/03/22	0044:05	0044:30	47	885	112		2	81, 4	
* 2224	81	81/03/22	0204:20	0204:35	77	107	725		2	81, 5	
* 2225	81	81/03/22	0606:20	0606:50	55	86			2		
* 2226	81	81/03/22	0858:05	0858:10	37	168	820		2	81, 6	
* 2227	81	81/03/22	1222:25	1222:45	67	353	3902		5	81, 7	
* 2228	81	81/03/22	1930:20	1930:35	30	59			2	81, 8	
* 2229	81	81/03/22	1931:20	1931:30	35	243	1352		2	81, 8	
* 2230	81	81/03/22	1949:10	1952:15	260	183	9493		5	81, 9	
5884	81	81/03/22	2143:47	2144:14	90	791	10044		4	186, 13	I
* 2231	81	81/03/22	2200:20	2200:35	42	1283	9256		5	81, 10	M
* 2232	81	81/03/22	2202:00	2202:35	85	199	2173		5	81, 10	M
* 2233	81	81/03/22	2306:10	2306:35	70	148	1733		5	81, 11	
* 2234	82	81/03/23	0644:55	0646:30	150	199	5693		5	81, 12	
* 2235	82	81/03/23	0653:00	0656:00	294	2175	1.11E+05		10	81, 12	M
* 2236	82	81/03/23	0659:35	0700:00	685	553	4684		15	81, 12	
* 2237	82	81/03/23	0731:40	0732:15	150	67			2		
* 2238	82	81/03/23	1024:00	1025:15	110	85			5		
* 2239	82	81/03/23	1123:35	1128:05	360	74	5101		2	81, 13	
* 2240	82	81/03/23	1204:10	1204:20	483	4160	91498		10	81, 14	
2241	82	81/03/23	1925:30	1929:40	573	81	7106		2	81, 15	
2242	82	81/03/23	2114:05	2115:40	370	294	23569		5	81, 16	
2243	82	81/03/23	2300:25	2300:55	35	82			2		
2244	83	81/03/24	0154:55	0157:10	850	894	82671		5	82, 1	M
2245	83	81/03/24	0717:30	0717:45	105	90			2	82, 3	
2246	83	81/03/24	0719:30	0719:45	550	253	4614		5	82, 3	
2247	83	81/03/24	0837:50	0838:05	45	63			2		
2248	83	81/03/24	1209:55	1210:30	185	70			2		

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2249	84	81/03/25	0056:40	0057:10	150	87			2		
2250	84	81/03/25	0202:00	0202:05	80	82			2		
2251	84	81/03/25	0204:30	0205:10	100	83			2		
2252	84	81/03/25	0505:50	0506:50	159	230	10752		2	82, 4	
2253	84	81/03/25	0524:05	0525:10	173	115	4302		2	82, 5	
2254	84	81/03/25	0844:40	0845:25	160	60			2		
2255	84	81/03/25	0936:50	0937:10	60	97			2		ES
2256	84	81/03/25	1025:40	1026:20	65	67			2		
2257	84	81/03/25	1612:10	1612:25	105	94			2		
2258	84	81/03/25	1921:10	1921:50	85	67			2		
2259	84	81/03/25	2046:00	2046:40	1796	3271	6.97E+06		5	82, 6	SN
2260	84	81/03/25	2239:40	2240:00	50	83			2		
2261	85	81/03/26	0232:00	0232:25	45	57			2		
6299	85	81/03/26	2133:30	2134:02	104	101			2		I
2262	86	81/03/27	0009:05	0011:35	1466	99	23863		2	82, 7	
2263	86	81/03/27	0156:45	0158:50	333	101	4536		2	82, 8	
2264	86	81/03/27	2052:30	2053:10	135	56			2		
2265	87	81/03/28	0004:25	0005:05	105	98			5		
2266	87	81/03/28	1506:20	1506:55	55	109	1113		2	82, 9	
2267	87	81/03/28	1556:55	1557:20	40	92			2		
2268	87	81/03/28	1720:00	1720:15	35	74			2		
2269	87	81/03/28	1909:15	1909:40	40	90			2		
2270	87	81/03/28	1927:45	1928:20	65	71			2		
2271	87	81/03/28	1931:10	1932:10	160	191	4832		2	82, 10	
2272	87	81/03/28	2119:30	2120:10	60	77			2		
2273	88	81/03/29	1632:05	1632:50	160	96			2		
2274	88	81/03/29	2208:10	2209:25	195	73			2		
2275	88	81/03/29	2244:35	2244:50	30	81			2		
2276	88	81/03/29	2349:50	2350:30	155	79			2		
2277	89	81/03/30	0009:55	0021:45	1507	496	2.25E+05		10	82, 11	M, EN
2278	89	81/03/30	0311:50	0313:00	145	70			2		
2279	89	81/03/30	0653:20	0654:25	185	75			2		
2280	89	81/03/30	2155:30	2200:00	915	244	31987		10	82, 12	
2281	89	81/03/30	2226:05	2226:20	39	156	969		2	82, 13	
2282	90	81/03/31	0425:55	0425:55	193	135	2880		5	82, 14	SA
2283	90	81/03/31	0436:45	0436:45	145	63			2		
2284	90	81/03/31	0442:40	0443:25	160	73			2		
2285	90	81/03/31	0446:55	0447:20	40	68			2		
2286	90	81/03/31	0640:25	0640:50	75	76			2		
2287	90	81/03/31	1300:55	1301:55	164	1905	25782		10	82, 15	M
2288	90	81/03/31	1528:20	1528:50	140	66			2		
2289	90	81/03/31	1607:50	1608:25	65	74			2		
2290	90	81/03/31	2052:40	2053:00	125	68			2		
2291	90	81/03/31	2149:35	2150:15	75	285	6499		5	82, 16	
2292	90	81/03/31	2233:45	2234:40	155	75			5		
2293	91	81/04/01	0105:40	0146:04	3140	12460	7.20E+06		14	83, 1	EN
2294	91	81/04/01	1242:57	1244:39	180	85			2		
2295	91	81/04/01	1348:45	1418:50	3330	205	81263		7	83, 2	M, EN, IS
2296	91	81/04/01	2004:05	2004:55	95	62			2		
2297	91	81/04/01	2143:25	2143:55	286	136	8348		5	83, 3	AX
2298	92	81/04/02	0805:15	0805:30	25	85			2		
2299	92	81/04/02	1059:05	1106:40	985	14865	2.55E+06		12	83, 4	M
2300	92	81/04/02	1420:15	1421:25	96	119	1372		2	83, 5	

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2301	93	81/04/03	0126:00	0127:00	227	126	3404		2	83, 6	
2302	93	81/04/03	0755:10	0755:40	60	64			2		
2303	93	81/04/03	0911:35	0919:25	1895	371	91207		5	83, 7	EN
2304	93	81/04/03	1640:55	1648:40	715	84	5515		2	83, 8	
2305	93	81/04/03	1659:10	1659:25	145	69			2		
2306	93	81/04/03	1832:30	1839:40	1135	204	23967		10	83, 9	
2307	93	81/04/03	2021:20	2021:45	136	147	5843		2	83, 10	
2308	93	81/04/03	2040:50	2041:15	195	98			2		
2309	93	81/04/03	2323:55	2331:45	2250	85	22619		2	83, 11	
2310	94	81/04/04	0223:40	0225:40	157	190	2565		2	83, 12	
2311	94	81/04/04	0228:30	0231:40	296	377	12001		5	83, 12	
2312	94	81/04/04	0244:55	0245:20	65	96			2		
2313	94	81/04/04	0622:50	0623:30	120	59			2		
2314	94	81/04/04	1643:50	1645:05	171	208	6804		2	83, 13	
2315	94	81/04/04	1946:55	1947:00	180	91			2		SN
2316	94	81/04/04	2122:00	2123:40	563	308	1.10E+05		5	83, 14	
2317	94	81/04/04	2159:15	2203:00	672	236	24995		5	83, 15	
2318	94	81/04/04	2311:00	2312:50	248	106	3406		2	83, 16	
2319	94	81/04/04	2345:25	2346:55	210	70			2		
2320	95	81/04/05	0032:15	0056:40	1705	88	17225		2	84, 1	
2321	95	81/04/05	0256:10	0256:10	26	320	1194		5	84, 2	SG, DG
2322	95	81/04/05	1415:15	1415:50	65	70			2		
2323	95	81/04/05	1803:55	1804:30	195	56			2		
2324	95	81/04/05	1853:20	1854:15	90	69			2		
2325	95	81/04/05	1857:25	1901:00	327	85	7692		2	84, 3	
2326	95	81/04/05	2116:10	2117:30	290	81	4956		5	84, 4	
2327	95	81/04/05	2140:35	2142:30	195	84			2		
2328	95	81/04/05	2145:55	2146:35	65	58			2		
2329	96	81/04/06	0706:15	0708:45	195	52			2		
2330	96	81/04/06	0710:20	0712:35	160	51			2		
2331	96	81/04/06	0723:35	0724:35	149	114	2015		2	84, 5	
2332	96	81/04/06	0848:30	0853:45	480	89	4994		2		
2333	96	81/04/06	2202:30	2203:40	190	64			2		
2334	96	81/04/06	2323:15	2323:25	45	59			2		
2335	97	81/04/07	0103:15	0103:45	98	746	20953		5	84, 6	M
2336	97	81/04/07	0115:10	0118:25	234	968	67952		5	84, 6	EN
2337	97	81/04/07	0422:30	0426:30	461	160	15815		2	84, 7	M, EN
2338	97	81/04/07	1825:45	1826:30	89	297	3577		5	84, 8	
2339	97	81/04/07	1834:10	1836:20	559	110	13171		2	84, 8	
2340	97	81/04/07	1952:15	1953:10	165	85			2		
2341	97	81/04/07	2012:50	2013:25	50	96			2	84, 9	
2342	97	81/04/07	2015:00	2015:30	118	166	1800		2	84, 9	
2343	98	81/04/08	0041:10	0044:40	258	852	12568		5	84, 10	
2344	98	81/04/08	0541:35	0543:15	154	166	2581		2	84, 11	M
2345	98	81/04/08	0841:50	0843:30	152	153	3839		2	84, 12	
2346	98	81/04/08	1026:40	1028:00	118	365	2906		5	84, 13	
2347	98	81/04/08	1258:00	1259:10	109	1208	13661		10	84, 14	SN
2348	98	81/04/08	1624:10	1637:00	2644	417	2.32E+05		5	84, 15	M
2349	98	81/04/08	1759:45	1804:45	1098	88	7133		2	84, 16	
2350	98	81/04/08	1836:20	1836:40	65	95			2		
2351	98	81/04/08	1926:55	1927:35	75	63			2		
2352	98	81/04/08	1956:45	2005:10	555	71	2732		2	85, 1	
2353	98	81/04/08	2238:25	2238:45	34	286	2392		5	85, 2	

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2354	98	81/04/08	2317:45	2319:30	99	190			2		
2355	98	81/04/08	2328:15	2328:50	140	174	8482		2	85, 1	
2356	99	81/04/09	0353:35	0354:00	110	89			2		
2357	99	81/04/09	0359:40	0400:05	40	76			2		
2358	99	81/04/09	1004:45	1005:45	70	98			2		
2359	99	81/04/09	1322:10	1322:20	25	73			2		
2360	99	81/04/09	1443:40	1445:10	197	85			2		
2361	99	81/04/09	1650:45	1650:55	60	72			2		
2362	99	81/04/09	1655:45	1700:10	360	333	44367		2	85, 4	
2363	99	81/04/09	1821:55	1832:20	913	355	65353		10	85, 5	M
2364	99	81/04/09	2118:55	2121:00	195	60			2		
2365	99	81/04/09	2145:00	2147:35	190	67			2		
2366	99	81/04/09	2255:45	2257:45	160	54			2		
2367	100	81/04/10	0346:15	0346:30	20	71			2		
2368	100	81/04/10	0515:35	0517:05	185	105	3213		2	85, 6	
2369	100	81/04/10	0527:40	0532:15	820	79	3828		2	85, 7	
2370	100	81/04/10	0656:30	0657:10	74	149	1501		5	85, 8	
2371	100	81/04/10	1108:50	1109:15	1825	2098	1.20E+05		5	85, 9	SN, ES
2372	100	81/04/10	1459:10	1500:20	150	91			2		
2373	100	81/04/10	1633:40	1651:15	1360	11879	3.63E+06		15	85, 10	M
2374	100	81/04/10	1730:40	1739:55	1390	98	12018		5	85, 11	
2375	100	81/04/10	1824:30	1825:30	382	1221	49531		10	85, 12	
2376	100	81/04/10	1906:40	1912:10	1555	161	26980		2	85, 13	
2377	100	81/04/10	2226:55	2227:05	25	84			2		
2378	100	81/04/10	2255:30	2256:35	150	810	13604		5	85, 14	M
2379	101	81/04/11	0030:15	0031:15	290	120	3181		2	85, 16	
2380	101	81/04/11	0456:45	0500:50	695	81	5359		2	86, 1	
2381	101	81/04/11	0537:40	0538:25	120	74			2		
2382	101	81/04/11	0828:10	0829:10	125	97			2		
2383	101	81/04/11	0950:55	0951:25	63	120	1050		2	86, 2	
2384	101	81/04/11	1009:20	1009:30	20	72			2		
2385	101	81/04/11	1014:40	1017:35	355	432	9740		5	86, 3	
2386	101	81/04/11	1150:55	1151:30	55	93			2		
2387	101	81/04/11	1302:15	1302:40	40	260	1964		5	86, 4	
2388	101	81/04/11	1302:55	1303:15	53	212	1744		2	86, 4	
2389	101	81/04/11	1303:45	1304:20	80	97			2	86, 4	
2390	101	81/04/11	1333:25	1334:55	261	378	16303		5	86, 5	
2391	101	81/04/11	1629:40	1630:15	55	82			2		
2392	101	81/04/11	1644:15	1644:40	138	69			2	86, 6	
2393	101	81/04/11	2033:23	2033:47	73	91			5		I
2394	101	81/04/11	2259:45	2300:15	120	60			2		
2395	101	81/04/11	2302:40	2303:00	150	76			2		
2396	101	81/04/11	2349:55	2351:15	150	75			2		
2397	102	81/04/12	0000:15	0001:10	209	280	11417		2	86, 7	
2398	102	81/04/12	0009:05	0009:25	85	80			2		
2399	102	81/04/12	0128:00	0128:05	17	102			2	86, 8	
2400	102	81/04/12	0131:10	0134:40	398	1043	46990		5	86, 8	
2401	102	81/04/12	0143:40	0147:50	313	259	5382		5	86, 9	
2402	102	81/04/12	0155:20	0155:55	60	77			2		
2403	102	81/04/12	0157:20	0157:50	125	72			2		
2404	102	81/04/12	0206:00	0207:20	145	99			2		
2405	102	81/04/12	0303:05	0305:40	290	152	3507		2	86, 10	SN
2406	102	81/04/12	0310:20	0311:00	208	219	6880		2	86, 10	



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2406	102	81/04/12	0314:10	0314:40	120	822	12984		5	86, 10	
2407	102	81/04/12	0649:35	0651:05	150	81			2		
6306	102	81/04/12	0830:43	0830:56	67	60			2		I
6307	102	81/04/12	0835:48	0835:57	75	63			2		I
6308	102	81/04/12	1016:26	1016:49	93	55			2		I
2408	102	81/04/12	1242:05	1246:35	506	182	18732		2	86, 11	
2409	102	81/04/12	1307:40	1307:50	25	71			2		
2410	102	81/04/12	1450:20	1450:55	120	65			2		
2411	102	81/04/12	1602:30	1606:45	330	1193			10	86, 12	
6310	102	81/04/12	1730:42	1731:26	88	60			2		I
6311	102	81/04/12	1810:21	1810:57	76	73			2		I
6312	102	81/04/12	1814:16	1814:41	62	50			2		I
6313	102	81/04/12	1944:32	1945:07	523	62	4591		2	196, 1	I
6314	102	81/04/12	2104:00	2107:03	871	69	7170		3	196, 2	I
2412	102	81/04/12	2215:15	2216:20	135	78			2		
2413	102	81/04/12	2226:30	2227:25	362	1164	59087		10	86, 14	M
2414	102	81/04/12	2303:15	2304:10	65	90			2		
2415	103	81/04/13	0202:20	0202:40	65	106	1566		2	86, 16	
2416	103	81/04/13	0207:55	0208:10	73	104	1962		2	86, 16	
6316	103	81/04/13	0329:08	0338:41	961	82	10389		3	196, 3	I
6318	103	81/04/13	0636:59	0637:15	30	67			2		I
2417	103	81/04/13	0754:50	0755:45	175	66			2		
6319	103	81/04/13	0755:13	0755:47	100	65			2		I
6320	103	81/04/13	0928:55	0929:25	44	57			2		I
6321	103	81/04/13	0930:10	0930:44	137	99			2		I
6322	103	81/04/13	0934:40	0934:52	39	68			2		I
6323	103	81/04/13	0938:25	0938:35	42	66			2		I
6324	103	81/04/13	0951:23	0951:54	117	107	1619		2	196, 4	I
6325	103	81/04/13	0959:32	0959:39	18	75			2		I
6326	103	81/04/13	1002:17	1002:35	38	66			2		I
6327	103	81/04/13	1004:03	1004:23	40	77			2		I
6328	103	81/04/13	1005:19	1008:20	494	211	7598		3	196, 5	M, I
2418	103	81/04/13	1135:00	1135:20	45	62			2		
6330	103	81/04/13	1226:00	1226:39	69	80			2		I
6331	103	81/04/13	1242:42	1243:01	57	60			2		I
6332	103	81/04/13	1259:40	1300:09	62	91			2		I
6333	103	81/04/13	1309:12	1309:25	102	106	1248		2	196, 6	I
2419	103	81/04/13	1427:05	1431:10	363	126	3681		5	87, 1	
2420	103	81/04/13	1445:35	1445:50	70	78			3		
2421	103	81/04/13	1729:15	1729:25	20	90			2		
2422	104	81/04/14	0646:35	0646:50	40	68			2		
6317	104	81/04/14	0920:54	0921:09	39	91			2		I
6329	104	81/04/14	0948:57	0949:14	38	83			2		I
2423	104	81/04/14	1240:00	1240:50	187	84			2		
2424	104	81/04/14	1533:45	1537:45	333	95	1465		2	87, 2	
2425	104	81/04/14	1753:40	1753:50	20	58			2		
2426	104	81/04/14	1841:10	1842:10	150	63			2		
2427	104	81/04/14	1848:40	1849:35	258	80	3933		2	87, 3	
2428	104	81/04/14	1908:00	1910:10	165	59			2		
2429	104	81/04/14	2035:15	2035:45	65	69			2		
2430	104	81/04/14	2037:15	2039:35	135	58			3		
2431	104	81/04/14	2042:20	2042:35	90	95			2		
2432	104	81/04/14	2047:55	2050:25	264	749	11714		9	87, 4	

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2433	104	81/04/14	2056:00	2058:40	252	87	4754		6	87, 5	
2434	104	81/04/14	2216:35	2218:40	242	121	12707		2	87, 6	
2435	104	81/04/14	2327:55	2340:00	3306	1794	7.67E+05		12	87, 7	M
2436	105	81/04/15	0114:55	0116:10	215	100	3803		2	87, 8	
2437	105	81/04/15	0325:25	0325:45	40	61			2		
2438	105	81/04/15	0430:25	0430:50	75	71			2		
2439	105	81/04/15	0559:55	0601:20	150	743	9044		7	87, 9	
2440	105	81/04/15	0636:55	0638:40	180	90			2	87, 10	
2441	105	81/04/15	0641:25	0643:45	417	5290	1.27E+05		10	87, 10	
2442	105	81/04/15	0805:10	0806:15	60	93			2		
2443	105	81/04/15	1212:50	1213:35	124	104	1940		2	87, 11	
2444	105	81/04/15	1233:00	1235:15	190	70			2		
2445	105	81/04/15	1258:50	1259:15	36	240	1667		4	87, 12	
2446	105	81/04/15	1303:45	1304:15	90	90			3		
2447	105	81/04/15	1354:00	1354:30	60	62			2		
2448	105	81/04/15	1522:40	1527:50	622	143	9522		5	88, 1	
2449	105	81/04/15	1705:30	1707:45	420	406	13147		7	88, 2	
2450	105	81/04/15	1856:10	1856:15	40	59			2		
2451	105	81/04/15	1918:45	1919:25	83	478	4312		11	88, 3	
2452	105	81/04/15	1923:00	1923:25	35	78			2		
2453	105	81/04/15	2022:05	2022:20	35	64			2		
2454	105	81/04/15	2331:20	2331:45	100	63			2		
2455	106	81/04/16	0113:35	0114:30	551	247	20484		4	88, 4	
2456	106	81/04/16	0255:25	0256:00	73	350	6187		7	88, 5	
2457	106	81/04/16	0316:55	0317:25	131	111	1042		2	88, 6	
2458	106	81/04/16	0411:50	0412:10	30	72			2		
2459	106	81/04/16	0502:00	0503:55	145	63			2		
2460	106	81/04/16	1534:50	1535:20	60	64			2		
2461	106	81/04/16	2356:00	2356:20	45	61			2		
2462	107	81/04/17	0408:05	0409:50	223	150	3909		3	88, 7	
6337	107	81/04/17	0859:28	0859:56	80	65			2		I
6338	107	81/04/17	0931:09	0931:36	47	83			2		I
2463	107	81/04/17	0931:20	0931:35	35	82			2		
6339	107	81/04/17	1214:43	1218:44	2619	77	25043		2	196, 8	I
2464	107	81/04/17	1423:00	1424:15	277	1325	1.14E+05		6	88, 8	
2465	107	81/04/17	1648:30	1648:55	55	58			2		
2466	107	81/04/17	1829:05	1830:40	185	73			2		
2467	107	81/04/17	1834:30	1834:45	60	110	1028		7	88, 9	
2468	107	81/04/17	2310:00	2310:30	85	64			2		
2469	108	81/04/18	0130:55	0136:10	696	1117	1.60E+05		5	88, 10	M, EN
2470	108	81/04/18	0303:35	0304:00	84	134	1863		3	88, 11	
6342	108	81/04/18	0439:49	0440:20	64	70			2		I
6343	108	81/04/18	0547:32	0547:48	37	108	621		2	196, 9	I
6344	108	81/04/18	0549:28	0549:37	89	225	1941		2	196, 9	I
6345	108	81/04/18	0559:45	0604:34	1540	377	1.11E+05		2	196, 9	I
6346	108	81/04/18	0710:47	0717:57	1163	88	16499		2	196, 10	I
2471	108	81/04/18	1030:00	1030:25	55	74			2		
2472	108	81/04/18	1048:45	1051:25	1185	4160	8.33E+05		8	88, 12	M
2473	108	81/04/18	1701:45	1703:20	228	70	2902		2	88, 13	
2474	108	81/04/18	1720:10	1721:45	130	59			2		
2475	109	81/04/19	0119:45	0119:50	40	76			2		
2476	109	81/04/19	0246:00	0246:20	40	74			2		
2477	109	81/04/19	0859:10	0900:25	85	74			2		

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2478	109	81/04/19	0914:25	0914:35	35	64			2		
2479	109	81/04/19	1036:05	1036:35	50	85			2		
2480	109	81/04/19	1050:20	1050:45	55	65			2		
2481	109	81/04/19	1154:00	1154:30	45	66			2		
2482	109	81/04/19	1241:40	1242:20	67	400	3191		5	88, 14	
2483	109	81/04/19	1411:10	1411:55	175	66			2		
2484	109	81/04/19	1515:55	1517:40	263	90	4006		2	88, 15	
2485	109	81/04/19	1534:30	1538:15	401	1028	27438		6	88, 16	
2486	109	81/04/19	1543:05	1544:10	95	164	3527		3	88, 16	
2487	109	81/04/19	1652:00	1653:15	145	76			3		
2488	109	81/04/19	1710:20	1711:40	497	192	12939		3	89, 1	
2489	109	81/04/19	1719:15	1719:50	70	66			2		
2490	109	81/04/19	2316:15	2316:55	100	84			2		
2491	110	81/04/20	0229:00	0229:40	110	119	2418		3	89, 2	
2492	110	81/04/20	0231:35	0232:05	130	75			2		
2493	110	81/04/20	0343:25	0344:00	173	117	1767		3	89, 3	
2494	110	81/04/20	1057:15	1058:35	286	977	63032		7	89, 4	
2495	110	81/04/20	1624:35	1629:20	720	259	33135		3	89, 5	
2496	110	81/04/20	2118:05	2118:40	60	95			2		
2497	111	81/04/21	0907:50	0908:25	63	267	4264		3	89, 6	
2498	111	81/04/21	1337:10	1337:25	60	98			2		
6352	112	81/04/22	0228:49	0229:05	57	65			2		I
6353	112	81/04/22	0713:13	0714:17	115	124	2174		2	196, 12	I
2499	112	81/04/22	1341:30	1342:25	47	109	751		3	89, 7	
2500	112	81/04/22	1513:40	1513:55	35	68			2		
2501	112	81/04/22	1806:35	1818:25	1081	147	19671		2	89, 8	
2502	112	81/04/22	1945:40	1946:50	80	72			2		
2503	112	81/04/22	2001:50	2002:55	115	207	4797		3	89, 9	M, ES
2504	112	81/04/22	2257:50	2300:15	238	209	12509		3	89, 10	
2505	113	81/04/23	0008:15	0008:30	559	99	5182		2	89, 11	
2506	113	81/04/23	0029:45	0032:15	725	305	38377		6	89, 11	M
2507	113	81/04/23	0231:35	0232:35	253	120	5726		2	89, 12	
2508	113	81/04/23	0706:20	0707:10	105	61			2		
2509	113	81/04/23	1009:15	1010:30	70	71			2		
2510	113	81/04/23	1142:05	1142:30	35	88			2		
2511	113	81/04/23	1304:15	1305:00	110	116	6035		2	89, 13	
2512	113	81/04/23	1616:25	1617:50	191	105	3763		6	89, 14	
2513	113	81/04/23	1637:10	1638:00	90	65			2		
2514	113	81/04/23	1741:20	1741:55	85	85			2		
2515	113	81/04/23	1933:25	1933:45	100	95			2		
2516	113	81/04/23	2053:55	2054:45	118	115	3116		2	89, 15	
2517	114	81/04/24	0023:10	0023:40	70	92			2		
2518	114	81/04/24	0041:50	0045:50	549	508	29095		4	89, 16	
2519	114	81/04/24	0054:05	0054:45	85	82			2		
2520	114	81/04/24	0135:50	0143:15	3342	11690	4.46E+06		5	90, 1	M, SN
2521	114	81/04/24	0325:45	0326:55	768	74	2754		2	90, 2	
2522	114	81/04/24	0459:50	0500:15	69	168	2054		2	90, 3	
2523	114	81/04/24	0502:40	0506:35	324	142	1966		2	90, 3	
2524	114	81/04/24	0839:45	0839:55	15	74			2		
2525	114	81/04/24	0844:10	0853:40	836	314	75228		3	90, 4	M, EN
6354	114	81/04/24	0934:52	0935:10	61	100			2		I
6355	114	81/04/24	0946:13	0946:24	42	79			2		I
6356	114	81/04/24	0948:34	0948:45	18	68			2		I

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6357	114	81/04/24	0952:42	0952:59	98	64			2		I
6358	114	81/04/24	0957:44	0958:34	98	77			2		I
6359	114	81/04/24	1000:37	1001:01	27	78			2		I
2526	114	81/04/24	1110:10	1110:15	20	70			2		
2527	114	81/04/24	1112:35	1112:50	53	128	1377		2	90, 5	
2528	114	81/04/24	1116:40	1117:55	120	92			2		
2529	114	81/04/24	1120:15	1120:25	40	62			2		
2530	114	81/04/24	1123:25	1124:30	121	110	2324		2	90, 5	
2531	114	81/04/24	1303:00	1303:25	50	74			2		
2532	114	81/04/24	1322:50	1323:05	105	99			2		
2533	114	81/04/24	1324:35	1325:35	60	99			3		
2534	114	81/04/24	1334:10	1334:30	80	68			2		
4397	114	81/04/24	1420:45	1434:55	3428	1794	1.07E+06		14	146, 7	M, I, SN
2535	114	81/04/24	1620:25	1620:35	20	77			2		
2536	114	81/04/24	1740:40	1741:30	90	65			2		
2537	114	81/04/24	2103:45	2103:55	25	60			2		
2538	114	81/04/24	2112:05	2112:50	182	250	6197		3	90, 6	
2539	114	81/04/24	2116:05	2116:15	20	81			2		
2540	114	81/04/24	2226:15	2226:25	25	71			2	90, 7	
2541	114	81/04/24	2228:20	2228:55	138	128	1742		2	90, 7	
2542	115	81/04/25	0019:25	0019:35	20	361	1337		3	90, 8	
2543	115	81/04/25	0030:20	0030:40	60	140	1572		2	90, 9	
2544	115	81/04/25	0032:00	0033:40	130	82			2	90, 9	
2545	115	81/04/25	0046:40	0046:55	45	543	2516		5	90, 10	
2546	115	81/04/25	0154:40	0154:50	40	100			2		
2547	115	81/04/25	0209:05	0209:30	53	113	727		2	90, 11	
2548	115	81/04/25	0221:00	0221:10	24	195	806		4	90, 12	
2549	115	81/04/25	0510:35	0511:05	1008	845	14729		4	90, 13	M
2550	115	81/04/25	0527:55	0528:40	96	535	2125		3	90, 13	
2551	115	81/04/25	0530:10	0531:35	180	298	2205		3	90, 13	
2552	115	81/04/25	0539:25	0540:00	86	103	5624		5	90, 13	
2553	115	81/04/25	0628:30	0628:45	77	150	1616		2	90, 14	
2554	115	81/04/25	0653:10	0654:40	122	122	1476		2	90, 15	
2555	115	81/04/25	0655:20	0656:15	100	106	1090		2	90, 15	
6360	115	81/04/25	0756:39	0757:12	127	73			2		I
6361	115	81/04/25	0821:34	0823:37	178	74			4		I
2556	115	81/04/25	0951:10	0952:00	180	86			2		
2557	115	81/04/25	1001:05	1001:30	95	69			2		
2558	115	81/04/25	1026:45	1026:55	40	66			2		
6362	115	81/04/25	1145:33	1145:47	39	84			2		I
6364	115	81/04/25	1237:57	1238:31	121	100			2		I
6365	115	81/04/25	1246:22	1246:55	243	67	1983		2	196, 13	I
6366	115	81/04/25	1324:09	1325:13	152	146	3425		2	196, 14	I
2559	115	81/04/25	1548:50	1553:10	1279	366	1.22E+05		3	90, 16	SN
2560	115	81/04/25	1739:30	1740:30	190	46	3648		3	91, 1	
2561	115	81/04/25	1749:40	1749:50	30	73			2		
2562	115	81/04/25	1751:25	1753:10	180	74			2		
2563	115	81/04/25	2038:55	2039:20	170	74			2		
2564	115	81/04/25	2043:10	2044:20	130	82			2		
2565	115	81/04/25	2217:15	2218:10	100	90			2		
2566	115	81/04/25	2234:35	2235:10	78	111			2	91, 2	
2567	115	81/04/25	2237:20	2238:50	55	86			2		
2568	116	81/04/26	0001:55	0003:40	175	94			2		

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
2569	116	81/04/26	0004:55	0006:00	100	94			2		
2570	116	81/04/26	0015:05	0017:05	475	229	22909		4	91, 3	
2571	116	81/04/26	0028:15	0028:30	45	95			2		
2572	116	81/04/26	0144:35	0146:40	561	162	13829		2	91, 4	
2573	116	81/04/26	0311:30	0313:10	263	370	17832		5	91, 5	
2574	116	81/04/26	0610:45	0615:30	711	560	42838		2	91, 6	
2575	116	81/04/26	0631:40	0632:50	228	471	13346		4	91, 6	
2576	116	81/04/26	0642:30	0643:00	160	61			2		
2577	116	81/04/26	0938:10	0939:20	105	63			2		
2578	116	81/04/26	1009:55	1010:05	20	86			2		
2579	116	81/04/26	1054:50	1148:10	3629	7823	3.62E+06		15	91, 7	M, IN
2580	116	81/04/26	1312:30	1318:40	640	70	4150		5	91, 8	
2581	116	81/04/26	1415:15	1415:40	155	94			4		
2582	116	81/04/26	1431:40	1432:25	115	73			2		
2583	116	81/04/26	1552:10	1553:15	105	69			2		
2584	116	81/04/26	1735:55	1739:20	981	4922	4.13E+05		9	91, 9	M, EN
2585	116	81/04/26	1917:25	1918:20	170	87			2		
2586	116	81/04/26	1923:25	1924:25	110	76			2		
2587	116	81/04/26	2101:50	2102:05	60	76			2		
2588	117	81/04/27	0513:25	0513:50	50	96			2		
2589	117	81/04/27	0740:55	0812:55	9052	56177	4.85E+07		15	198, 2	M
2590	117	81/04/27	1404:15	1404:55	105	76			2		
2591	117	81/04/27	1858:15	1858:40	95	135			2		
2592	118	81/04/28	0500:20	0500:30	50	64			14		
2593	118	81/04/28	2148:25	2149:10	2981	691			3	91, 10	M, SN
2594	119	81/04/29	0729:45	0729:25	75	76			2		
2595	119	81/04/29	0941:55	0942:05	30	76			2		
2596	120	81/04/30	0302:00	0305:25	1559	123	34244		4	91, 11	
2597	120	81/04/30	1109:00	1109:30	50	82			2		
6367	120	81/04/30	1219:08	1220:47	164	56			2		I
2598	121	81/05/01	0110:25	0110:45	46	164	1086		2	92, 1	
2599	121	81/05/01	2136:50	2137:35	153	325	14219		4	92, 2	
2600	122	81/05/02	0350:15	0350:30	20	75			2		
2601	123	81/05/03	0030:00	0030:20	178	64	1131		2	92, 3	
2602	123	81/05/03	1941:10	1941:40	272	188	6021		4	92, 4	
2603	123	81/05/03	2124:45	2127:15	256	125	4028		2	92, 5	
2604	124	81/05/04	0836:40	0838:45	711	19517	1.17E+06		14	92, 6	M
2605	124	81/05/04	1935:15	1935:35	90	70			2		
2606	125	81/05/05	0200:25	0200:45	105	61			2		
2607	125	81/05/05	1050:25	1050:35	30	56			2		
2608	125	81/05/05	2255:00	2258:00	1231	852	1.77E+05		4	92, 8	M
2609	126	81/05/06	0818:40	0819:00	50	69			2		
2610	127	81/05/07	0201:35	0202:25	90	76			2		
2611	127	81/05/07	0540:40	0540:55	40	58			2		
2612	127	81/05/07	0625:05	0625:40	85	53			2		
2613	127	81/05/07	0711:15	0712:30	90	66			2		
2614	127	81/05/07	0826:00	0826:25	50	77			2		
2615	127	81/05/07	0835:05	0835:25	40	76			2		
2616	127	81/05/07	1427:40	1428:10	130	70			2		
2617	127	81/05/07	1742:40	1743:20	95	89			2		
2618	127	81/05/07	1746:45	1747:20	85	76			2		
6379	127	81/05/07	2100:38	2101:14	64	93			2		I
2619	128	81/05/08	0007:35	0007:45	50	65			2		

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2620	128	81/05/08	0217:55	0218:20	125	81			3		
2621	128	81/05/08	0335:00	0335:15	55	64			2		
2622	128	81/05/08	0542:15	0542:45	49	517	6193		7	92, 9	
2623	128	81/05/08	1027:05	1027:30	50	68			2		
2624	128	81/05/08	1333:10	1334:10	135	91			2		
2625	128	81/05/08	1738:30	1739:05	56	220	2312		2	92, 10	
2626	128	81/05/08	1928:35	1928:35	160	94			2		
2627	128	81/05/08	2057:20	2058:25	140	71			2		
2628	128	81/05/08	2208:55	2233:25	5700	3271	1.65E+06		10	92, 11	M, IN
2629	129	81/05/09	0157:45	0158:30	119	441	12527		5	92, 12	
2730	129	81/05/09	1155:35	1156:15	60	82			5		
2630	129	81/05/09	1234:25	1235:40	200	82			2		
2631	129	81/05/09	1325:25	1325:35	20	95			2		
2731	129	81/05/09	1336:00	1336:45	474	85	5320		5	95, 12	
2732	129	81/05/09	1516:15	1517:15	180	91			2		
2733	129	81/05/09	1555:40	1557:15	299	169	18160		10		3
2632	129	81/05/09	1637:05	1638:55	265	221	14871		2	92, 13	
2633	129	81/05/09	1718:05	1719:25	155	83			2		
2734	129	81/05/09	1949:05	1950:50	172	240	7260		5	95, 14	
2634	129	81/05/09	2204:35	2205:05	127	469	13465		5	92, 14	
2635	129	81/05/09	2207:40	2208:50	325	367	21455		2	92, 14	
2636	129	81/05/09	2227:05	2227:35	70	100			2		
2637	129	81/05/09	2253:20	2305:30	995	243	18612		2	92, 15	
2638	130	81/05/10	0129:15	0131:30	237	138	7252		2	92, 16	
2639	130	81/05/10	0150:50	0151:20	145	81			2		
2640	130	81/05/10	0501:50	0504:30	989	392	50972		5	93, 1	
2641	130	81/05/10	0610:05	0610:20	30	59			2		
2735	130	81/05/10	0908:30	0909:30	168	116	3138		2	95, 15	
2642	130	81/05/10	1224:40	1228:45	3940	445	1.61E+05		15	93, 2	M, IS
2643	130	81/05/10	1950:50	1951:05	50	80			2		
2644	130	81/05/10	2050:45	2051:10	35	74			2		
2645	130	81/05/10	2124:10	2124:30	50	85			2		
2646	131	81/05/11	0013:40	0014:10	103	244	2967		5	93, 3	
2647	131	81/05/11	0136:15	0136:35	60	169	1397		2	93, 4	
2648	131	81/05/11	0317:15	0317:45	45	75			2		
2649	131	81/05/11	0330:55	0332:05	160	158	4294		2	93, 5	
2650	131	81/05/11	0447:45	0448:20	50	71			2		
2651	131	81/05/11	0521:00	0521:40	65	91			2		
2652	131	81/05/11	0603:55	0613:30	1227	608	1.99E+05		10	93, 6	M
2655	131	81/05/11	1332:25	1553:15	88	132	1463		2	93, 7	
2653	131	81/05/11	1403:30	1403:55	145	84	1786		2		
2654	131	81/05/11	1449:35	1449:55	105	93			2		
2656	131	81/05/11	1534:55	1535:05	40	80			2	93, 7	
2657	131	81/05/11	2039:15	2039:25	50	61			2		
2658	131	81/05/11	2252:55	2253:30	85	56			2		
2659	131	81/05/11	2339:15	2339:35	113	200	3169		5	93, 8	
2660	132	81/05/12	0504:15	0505:15	80	65			2		
2661	132	81/05/12	1835:50	1836:00	20	49			2		
2662	133	81/05/13	0406:45	0415:30	7205	5418	3.07E+06		15	198, 3	M, SN, IN
2663	133	81/05/13	1443:45	1444:00	35	212	1948		3	93, 9	EN
2664	133	81/05/13	1842:00	1842:10	29	114	453		2	93, 10	
2665	133	81/05/13	2324:15	2325:00	171	162	59327		2	93, 11	
2666	134	81/05/14	0314:15	0315:25	314	3432	1.20E+05		9	93, 12	

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2667	134	81/05/14	0631:00	0631:25	52	138	1093		2	93, 13	
2668	134	81/05/14	1421:35	1422:15	202	155	2707		2	93, 14	
2669	135	81/05/15	0414:15	0416:00	195	67			2		
2670	135	81/05/15	0544:45	0544:45	303	215	8691		9	93, 15	SN
2671	135	81/05/15	0620:55	0621:25	61	112	718		5	93, 16	
2672	135	81/05/15	0735:40	0739:00	615	118	4644		2	94, 1	
2673	135	81/05/15	0757:45	0758:40	207	103	3316		2	94, 2	
2674	135	81/05/15	1815:30	1815:35	20	50			2		
2675	135	81/05/15	1829:30	1830:55	170	100			2		
2676	135	81/05/15	1853:20	1854:40	142	187	5481		2	94, 3	
2677	135	81/05/15	2135:15	2136:15	195	95			7		AX
2678	135	81/05/15	2220:00	2220:45	120	67			2		
2679	136	81/05/16	0036:05	0036:30	90	64			2		SN
2680	136	81/05/16	0211:30	0212:05	65	61			2		
2681	136	81/05/16	0240:50	0241:20	45	79			2		
2682	136	81/05/16	0442:20	0442:45	45	69			2		
2683	136	81/05/16	0551:40	0552:10	75	160	1314		3	94, 4	
2684	136	81/05/16	0658:24	0900:02	202	972	3.77E+05		5	197, 5	M, SA, I
2684	136	81/05/16	2344:55	2346:10	145	86			5		
2685	137	81/05/17	2027:35	2032:30	316	98	2090		2	94, 5	
2686	137	81/05/17	2126:15	2133:10	629	111	8623		5	94, 6	
2687	137	81/05/17	2335:30	2337:45	241	93	4262		5	94, 7	
2688	138	81/05/18	1449:55	1451:30	277	87	5505		2	94, 8	M
2689	138	81/05/18	1623:20	1630:05	747	62	8790		2	94, 9	ES
2690	138	81/05/18	1941:30	1943:20	230	442	18232		4	94, 10	
2691	138	81/05/18	2243:20	2245:35	712	116	18723		4	94, 11	AX
2692	140	81/05/20	0102:55	0103:50	145	73			4		
2693	140	81/05/20	0145:15	0145:45	180	65			2		
2694	140	81/05/20	1429:55	1437:20	490	136	14460		3	94, 12	AX
2695	140	81/05/20	2131:15	2132:45	200	96			6		
2696	140	81/05/20	2233:25	2234:10	40	76			2		
2697	140	81/05/20	2308:40	2311:05	425	125	8217		4	94, 13	
2698	141	81/05/21	0142:50	0143:45	165	86			2		
6390	141	81/05/21	0629:10	0631:17	334	736	32144		5	197, 7	M, I
6389	141	81/05/21	2123:36	2124:41	152	67			3		I
2699	141	81/05/21	2220:25	2226:15	457	288			10	94, 14	
2700	141	81/05/21	2300:30	2301:35	235	131	9122		5	94, 15	
6391	143	81/05/23	0321:19	0324:14	432	113	6606		2	197, 9	I
2702	143	81/05/23	2105:25	2106:10	190	92			5		
2701	143	81/05/23	2112:35	2113:30	260	98	5331		5	94, 16	
2703	144	81/05/24	0023:50	0025:55	538	94	9087		5	95, 1	
2704	144	81/05/24	0432:25	0437:05	587	106	9504		2	95, 2	
2705	144	81/05/24	0504:40	0506:20	160	95			2		
2706	144	81/05/24	1120:30	1120:50	60	147	1045		5	95, 3	
2707	144	81/05/24	2056:30	2058:35	292	72	2945		2	95, 4	
2708	144	81/05/24	2215:04	2215:50	100	71			2		
2709	145	81/05/25	0427:15	0429:05	161	128	2764		2	95, 5	
2710	145	81/05/25	1704:55	1705:05	30	85			2		
2711	145	81/05/25	1906:25	1907:15	170	77			6		
2712	145	81/05/25	2044:05	2044:40	120	74			5		
2713	145	81/05/25	2049:10	2049:50	190	69			2		
2714	145	81/05/25	2151:35	2152:15	85	95			5		ND
2715	145	81/05/25	2222:10	2232:35	770	108	12196		6	95, 6	

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2716	146	81/05/26	0151:30	0152:45	135	71			2		
2717	147	81/05/27	0751:20	0752:00	55	92			2		
2718	147	81/05/27	1337:00	1339:00	216	116	2950		2	95, 7	
2719	147	81/05/27	1730:25	1730:45	140	61			2		
2720	147	81/05/27	2209:30	2212:00	501	120	17592		5	95, 8	AX
2721	148	81/05/28	0605:35	0606:05	85	212	2259		4	95, 9	
2722	151	81/05/31	1928:20	1928:30	17	163			2		
2723	155	81/06/04	1600:40	1602:20	195	81			3		
2724	156	81/06/05	0201:10	0201:20	30	99			15		AX
2725	158	81/06/07	0258:00	0258:45	117	129	2644		2	95, 10	
2726	158	81/06/07	1358:15	1359:15	195	90			10		
2727	159	81/06/08	0305:25	0306:25	165	91			2		
2728	159	81/06/08	0752:05	0750:30	303	390	18597		5	95, 11	
2729	159	81/06/08	0810:30	0810:55	56	99			2		
2736	161	81/06/10	1154:25	1155:10	75	81			2		
2737	161	81/06/10	1326:05	1328:35	200	94			5		
2738	161	81/06/10	1503:50	1507:35	502	93	6131		5	95, 16	
2739	162	81/06/11	1142:25	1143:50	185	99			6		AX
2740	164	81/06/13	2241:55	2242:05	25	98			2		
2741	167	81/06/16	0640:45	0641:45	85	65			2		
2742	167	81/06/16	0744:25	0745:20	200	111	4512		2	96, 1	
2743	167	81/06/16	1230:15	1231:10	125	100			2		
2744	167	81/06/16	1232:50	1234:35	185	70			3		
2745	167	81/06/16	2028:30	2028:55	75	93			2		
2746	168	81/06/17	0002:15	0003:55	486	1236	52891		5	96, 2	
2747	168	81/06/17	0132:30	0133:05	75	296	4406		3	96, 3	
2748	168	81/06/17	0250:35	0251:50	130	97			2		
2749	168	81/06/17	0322:45	0324:15	149	112	2035		4	96, 4	
2750	168	81/06/17	0430:05	0430:35	40	71			2		
2751	168	81/06/17	0506:20	0506:30	20	65			2		
2752	168	81/06/17	0751:55	0752:00	25	89			2		
2753	168	81/06/17	0910:55	0912:35	175	78			5		
2754	168	81/06/17	0946:50	0949:10	334	571	26782		7	96, 5	
2755	168	81/06/17	1000:55	1001:20	65	92			2		
2756	173	81/06/22	1450:30	1454:20	1386	329	98304		10	96, 6	M,SN,ES
2766	174	81/06/23	0042:40	0043:00	180	83			2		
2757	174	81/06/23	0658:55	0659:05	47	156	2063		4	96, 7	
2758	174	81/06/23	0903:15	0904:20	143	143	3278		2	96, 8	
2759	174	81/06/23	1220:40	1223:30	375	133	8547		2	96, 9	
2760	174	81/06/23	1719:00	1719:05	360	127	15492		3	96, 10	M,AX,SA
2761	174	81/06/23	1815:20	1815:50	55	76			2		
2762	174	81/06/23	1823:50	1824:30	85	75			2		
2763	174	81/06/23	1858:00	1858:05	68	212	2797		3	96, 11	M,SA
2764	174	81/06/23	2252:30	2252:55	60	74			2		
2765	174	81/06/23	2336:15	2337:15	110	89			2		
2767	175	81/06/24	0157:20	0159:10	216	123	6418		2	96, 12	
2768	175	81/06/24	0638:40	0640:15	195	87			2		
2769	175	81/06/24	0853:35	0853:40	23	115	418		3	96, 13	
2770	175	81/06/24	1305:55	1307:25	95	76			2		
2771	175	81/06/24	1624:20	1624:45	70	81			2		
2772	175	81/06/24	1709:50	1712:30	225	198	8900		3	96, 14	SN
2773	175	81/06/24	2028:15	2028:45	65	130	1340		2	96, 15	
2774	176	81/06/25	0057:00	0058:10	1150	1480			10	96, 16	ND



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2775	176	81/06/25	0157:45	0159:10	148	1018	14193		10	97, 1	M
2776	176	81/06/25	0201:55	0202:40	75	76			2		
2777	176	81/06/25	0219:35	0219:50	39	154	4358		2	97, 1	ND
2778	176	81/06/25	0334:05	0335:50	345	205	6205		2	97, 2	
2779	176	81/06/25	0345:20	0345:40	75	151	1380		4	97, 3	
2780	176	81/06/25	0406:40	0407:15	65	72			2		
2781	176	81/06/25	0508:45	0509:00	40	98			2		
2782	176	81/06/25	1741:45	1745:00	415	262	22539		2	97, 4	
2783	176	81/06/25	2020:30	2022:00	69	360	4749		5	97, 5	
2784	176	81/06/25	2051:20	2051:50	213	75	1676		2	97, 6	
2785	176	81/06/25	2157:25	2158:00	105	77			2		
2786	176	81/06/25	2309:45	2309:50	20	69			2		
2787	176	81/06/25	2311:15	2311:35	60	82			2		
2788	177	81/06/26	0034:15	0035:10	200	106	2807		2	97, 7	
2789	177	81/06/26	0320:15	0325:15	1317	119	21576		2	97, 8	
2790	177	81/06/26	0640:35	0644:35	672	552	52722		2	97, 9	
2791	177	81/06/26	1340:55	1341:30	30	430	4448		3	97, 10	
2792	177	81/06/26	1909:05	1909:45	200	64			2		
2793	178	81/06/27	0753:55	0754:50	85	95			2		
2794	178	81/06/27	0847:20	0857:10	772	391	6391		5	97, 11	M, EN
2795	179	81/06/28	0023:05	0023:40	285	419	10446		5	97, 12	
2796	179	81/06/28	0358:15	0359:10	240	674	22394		10	97, 13	
2797	179	81/06/28	0437:45	0438:35	115	83			2		
2798	179	81/06/28	0508:25	0508:55	50	95			2		
2799	179	81/06/28	0654:00	0654:35	120	85			2		
2800	179	81/06/28	0714:50	0715:20	65	63			2		
2801	180	81/06/29	0035:20	0040:40	765	1798	4.37E+05		5	97, 14	
2802	180	81/06/29	0357:25	0357:45	40	76			2		
2803	181	81/06/30	0213:55	0215:25	140	96			6		AX
2804	181	81/06/30	0620:30	0621:40	200	122	6022		2	97, 15	
2805	181	81/06/30	2037:35	2037:55	66	83			2		
2806	181	81/06/30	2341:00	2341:35	115	83			2		
2807	182	81/07/01	2028:25	2028:50	35	72			2		
2808	183	81/07/02	0015:45	0016:45	90	77			4		
2809	183	81/07/02	0156:35	0156:45	210	137	5586		13	97, 16	
2810	183	81/07/02	0235:00	0236:10	90	136	1833		2	97, 17	
2811	184	81/07/03	0111:05	0112:10	136	203	5826		2	98, 1	
2812	184	81/07/03	0119:55	0124:50	602	1593	91923		5	98, 1	M
2816	184	81/07/03	0139:45	0140:40	165	65			2		
2813	184	81/07/03	0440:20	0443:45	438	149	7370		2	98, 3	
2814	184	81/07/03	1907:00	1908:20	611	412	20798		5	98, 4	M
2815	184	81/07/03	2357:05	2358:35	110	84			2		
2817	185	81/07/04	0549:55	0550:10	40	67			2		
2818	185	81/07/04	0554:10	0554:35	110	67			2		
2819	185	81/07/04	2124:20	2127:30	733	319	55334		10	98, 5	
2820	185	81/07/04	2345:10	2347:50	473	154	17640		10	98, 6	
2821	186	81/07/05	1530:05	1530:25	194	116	3179		2	98, 7	
2822	186	81/07/05	1952:35	1953:10	125	67			2		
2823	187	81/07/06	2245:15	2251:35	619	130	13969		10	98, 8	
2824	187	81/07/06	2328:05	2330:10	412	196	18743		10	98, 9	
2825	188	81/07/07	0217:20	0220:45	422	89	7537		2	98, 10	
2826	188	81/07/07	0243:57	0244:55	155	90			2		
2827	188	81/07/07	2239:25	2242:00	195	84			5		AX

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
2828	189	81/07/08	0034:50	0035:10	30	68			2		
2829	189	81/07/08	1149:55	1150:05	21	117	276		2	98, 11	
2830	189	81/07/08	1215:35	1217:30	145	79			2		
2831	189	81/07/08	2050:45	2050:55	130	85			2		
2832	189	81/07/08	2228:45	2233:05	749	170			5	98, 12	AX
2833	189	81/07/08	2307:45	2308:45	506	98			5	98, 13	AX
2834	190	81/07/09	0028:00	0029:30	197	83			2		AX
2835	190	81/07/09	0714:30	0714:55	195	75			2		AX
2836	190	81/07/09	1315:30	1316:45	351	487	32757		2	98, 14	M
2837	190	81/07/09	1610:10	1611:00	85	100			2		
2838	190	81/07/09	1740:30	1741:20	65	79			2		
2839	190	81/07/09	2041:00	2045:15	521	214	29289		10	98, 15	SN
2840	191	81/07/10	0655:00	0655:07	13	504	1348		5	98, 16	
2841	191	81/07/10	1939:25	1941:25	135	70			2		
2842	191	81/07/10	2211:45	2213:45	190	85			5		
2843	192	81/07/11	1500:15	1501:35	175	66			2		
2844	192	81/07/11	2342:25	2342:50	65	67			2		
2845	192	81/07/11	2345:25	2346:00	70	90			2		
2846	193	81/07/12	0211:10	0215:10	505	204	9909		5	99, 1	
2847	193	81/07/12	0444:05	0444:10	15	78			2	99, 2	
2848	193	81/07/12	0446:30	0446:50	44	307	1882		5	99, 2	
2849	193	81/07/12	1104:30	1104:55	40	88			2		
2850	193	81/07/12	2233:15	2237:00	488	106	11982		5	99, 3	
2851	194	81/07/13	1842:40	1843:35	80	79			2		
2852	194	81/07/13	2224:00	2228:10	646	213	2113		5	99, 4	
2853	195	81/07/14	2215:25	2219:30	619	104	15980		5	99, 5	
2854	196	81/07/15	0247:50	0248:25	105	73			2		
2855	196	81/07/15	0731:10	0731:45	138	118	2677		2	99, 6	
2856	196	81/07/15	1642:50	1645:40	565	502	61942		4	99, 7	M
2857	196	81/07/15	2005:05	2006:00	210	217	4441		2	99, 9	
2858	196	81/07/15	2134:20	2135:20	157	61			2		
2859	196	81/07/15	2157:55	2159:15	289	194	9838		2	99, 10	
2860	197	81/07/16	0251:25	0252:10	135	96			2		
2860	197	81/07/16	0418:25	0419:15	136	252	5342		2	99, 11	
2861	197	81/07/16	1217:00	1217:10	115	63			2		
2862	197	81/07/16	1509:45	1510:45	150	67			2		
2863	197	81/07/16	1636:10	1641:10	492	1689	60851		8	99, 12	M
2864	197	81/07/16	2023:40	2025:15	115	67			2		
2865	197	81/07/16	2029:45	2030:35	90	68			2		
2866	197	81/07/16	2038:55	2039:25	65	55			2		
2867	197	81/07/16	2323:30	2325:40	288	106	5043		2	99, 14	
2869	198	81/07/17	0345:15	0345:30	29	288	1976		5	99, 15	SA
2870	198	81/07/17	0538:00	0542:25	348	71	2784		2	99, 16	
2871	198	81/07/17	0708:50	0709:30	65	92			2		
2872	198	81/07/17	0842:22	0842:35	2556	1100	5.02E+05		10	100, 1	M, SA
2873	198	81/07/17	1145:10	1146:50	219	134	2994		2	100, 2	
2874	198	81/07/17	1153:40	1155:50	174	173	3443		2	100, 2	M
2875	198	81/07/17	1223:15	1225:20	614	1137	1.23E+05		5	100, 3	
2876	198	81/07/17	1347:25	1347:45	55	99			2		
2877	198	81/07/17	1505:30	1505:50	34	300	1502		5	100, 4	
2878	198	81/07/17	1645:35	1646:00	40	65			2		
2879	198	81/07/17	1648:45	1649:15	92	176	2699		2	100, 5	
2880	198	81/07/17	1700:05	1703:10	679	385	47047		4	100, 6	

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2881	198	81/07/17	2010:40	2010:50	15	74			2		
2882	198	81/07/17	2012:20	2012:35	30	85			3		
2883	198	81/07/17	2303:35	2304:00	45	67			2		
2884	199	81/07/18	0030:25	0031:45	260	160	7579		2	100, 7	
2885	199	81/07/18	0111:15	0111:40	55	76			2		
2886	199	81/07/18	0215:10	0215:20	41	123	817		2	100, 8	
2887	199	81/07/18	0404:45	0404:50	10	78			2		
2888	199	81/07/18	0705:45	0709:40	643	980	1.43E+05		5	100, 9	M
2889	199	81/07/18	0841:40	0841:55	35	98			2		
2890	199	81/07/18	1140:10	1148:40	848	637			2	100, 11	M,ND
2891	199	81/07/18	1213:50	1214:20	184	158			2	100, 11	DG
2892	199	81/07/18	1222:30	1222:40	216	4982	51190		10	100, 11	
2893	199	81/07/18	1307:05	1312:30	630	209	13908		2	100, 12	
2894	199	81/07/18	1332:20	1332:35	30	78			2		
2895	199	81/07/18	1403:40	1404:00	85	66			2		
2896	199	81/07/18	1640:35	1641:30	106	124	2052		5	100, 13	
2897	199	81/07/18	1759:30	1803:55	601	73			2	100, 14	DG
2898	199	81/07/18	1933:05	1933:20	25	71			2		
2899	199	81/07/18	2015:25	2015:50	70	70			2		
2900	199	81/07/18	2248:50	2249:35	174	123	3424		2	100, 15	
2901	199	81/07/18	2259:35	2300:10	120	67			2		
2902	200	81/07/19	0015:05	0015:20	106	142	1418		2	100, 16	
2903	200	81/07/19	0021:45	0022:20	80	62			2	101, 1	
2904	200	81/07/19	0024:15	0024:30	47	291	1479		3	101, 1	
2905	200	81/07/19	0150:45	0200:05	3258	5697	5.33E+05		5	101, 2	M
2906	200	81/07/19	0417:30	0425:10	491	6358	1.68E+05		6	101, 3	EN
2907	200	81/07/19	0506:20	0533:50	3255	34086			14	101, 4	M,SA,EN
2908	200	81/07/19	0735:10	0735:50	73	128	612		2	101, 5	
2909	200	81/07/19	0825:15	0825:40	45	68			2		
2910	200	81/07/19	1005:50	1006:15	40	72			2		
2911	200	81/07/19	1020:05	1020:40	85	75			2		
2912	200	81/07/19	1300:40	1301:45	105	69			2		
2913	200	81/07/19	1336:35	1337:00	72	544	3280		4	101, 6	M
2914	200	81/07/19	2239:45	2240:10	40	69			2		
2915	200	81/07/19	2302:30	2303:00	60	71			2		
2916	201	81/07/20	0217:25	0217:27	30	87			2		
2917	201	81/07/20	0229:10	0230:35	227	227	4248		2	101, 8	
2918	201	81/07/20	0343:00	0343:10	60	118	1706		2	101, 9	
2919	201	81/07/20	0508:25	0508:55	60	66			2		
2920	201	81/07/20	0719:35	0719:55	50	91			2		
2921	201	81/07/20	0957:05	0957:25	81	132	2084		2	101, 10	
2922	201	81/07/20	1145:40	1146:30	115	100			2		
2923	201	81/07/20	1200:50	1201:25	60	60			2		
2924	201	81/07/20	1211:25	1211:50	50	56			2		
2925	201	81/07/20	1307:15	1318:30	2560	1540	7.54E+05		9	101, 11	EN
2926	201	81/07/20	1736:45	1737:05	442	145	13865		2	101, 12	SN
2927	201	81/07/20	2050:15	2050:25	40	60			2		
2928	201	81/07/20	2110:35	2110:55	40	66			2		
2929	201	81/07/20	2255:40	2256:10	45	62			2		
2930	201	81/07/20	2309:00	2309:05	20	91			2		
2951	202	81/07/21	0131:55	0135:50	447	171	14541		2	102, 9	
2952	202	81/07/21	0141:30	0141:55	157	824	16166		4	102, 9	M
2953	202	81/07/21	0151:10	0151:45	125	75			2		

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2931	202	81/07/21	0211:25	0212:15	75	64			2		
2932	202	81/07/21	0230:05	0230:50	209	139	3282		2	101, 13	
2933	202	81/07/21	0359:00	0404:10	600	419	35091		5	101, 14	M
2934	202	81/07/21	0455:45	0456:10	94	260	3994		2	101, 15	
2935	202	81/07/21	0634:00	0635:10	180	79			2		
2936	202	81/07/21	0715:05	0715:35	105	186	7721		4	101, 16	M
2937	202	81/07/21	0815:10	0815:35	73	149	1532		2	102, 1	
2938	202	81/07/21	0835:40	0848:00	1227	307	44785		2	102, 2	EN
2939	202	81/07/21	0945:15	0945:45	125	119	2171		2	102, 3	
2940	202	81/07/21	1110:35	1111:35	160	85			2		
2941	202	81/07/21	1124:25	1125:00	135	69			2		
2942	202	81/07/21	1314:05	1315:15	120	104	2388		2	102, 4	
2943	202	81/07/21	1609:35	1609:50	45	66			2		
2944	202	81/07/21	1613:25	1614:40	195	72			3		
2945	202	81/07/21	1621:10	1622:05	80	69			2		
2946	202	81/07/21	1647:45	1648:45	282	240	12524		2	102, 5	M
2947	202	81/07/21	1812:10	1812:30	35	59			2		
2948	202	81/07/21	1905:30	1905:40	25	62			2		
2949	202	81/07/21	1908:20	1910:00	188	762	28591		3	102, 6	M
2950	202	81/07/21	2102:15	2102:35	65	119	1052		2	102, 8	
2954	203	81/07/22	0325:10	0326:10	115	70			2		
2955	203	81/07/22	0354:45	0355:15	93	120	1292		2	102, 11	
2956	203	81/07/22	0800:35	0801:10	35	61			2		
2957	203	81/07/22	0821:00	0823:25	321	142	5288		2	102, 12	
2958	203	81/07/22	0837:00	0837:45	623	1283	84894		4	102, 12	M
2959	203	81/07/22	1014:40	1015:10	60	82			2		
2960	203	81/07/22	1018:30	1018:50	70	236	2979		3	102, 13	
2961	203	81/07/22	1020:00	1020:13	30	79			2		
2962	203	81/07/22	1604:15	1605:30	190	92			4		
2963	203	81/07/22	1743:15	1744:40	135	79			2		
2964	203	81/07/22	1905:25	1905:40	40	75			2		
2965	203	81/07/22	2048:25	2048:35	63	125	1021		2	102, 14	
2966	203	81/07/22	2356:50	2356:55	41	203	1496		3	102, 15	
2967	204	81/07/23	0211:00	0211:50	184	687	20181		4	102, 16	
2968	204	81/07/23	0307:35	0308:00	83	406	5446		5	103, 1	M
2969	204	81/07/23	0438:05	0446:40	630	610	19405		3	103, 3	
2970	204	81/07/23	0820:00	0821:00	120	65			2		
2971	204	81/07/23	0927:15	0927:30	45	70			2		
2972	204	81/07/23	1000:50	1000:55	124	848	8809		6	103, 4	
2973	204	81/07/23	1102:15	1103:15	135	91			2		
2974	204	81/07/23	1228:25	1231:30	530	79	6337		3	103, 5	
2975	204	81/07/23	1405:30	1410:10	1005	82	77260		3	103, 6	
2976	204	81/07/23	1452:35	1453:00	75	179	12117		3	103, 7	
2977	204	81/07/23	1457:30	1457:40	15	60			2		
2978	204	81/07/23	1548:15	1549:35	160	83			2		
2979	204	81/07/23	1630:10	1634:50	405	73	5854		7	103, 8	EN
2980	204	81/07/23	1920:45	1922:00	155	77			2		
2981	204	81/07/23	2038:45	2039:30	175	81			2		
2982	204	81/07/23	2045:50	2048:10	461	410	38416		2	103, 9	M
2983	204	81/07/23	2103:30	2103:35	60	55			2		
2984	205	81/07/24	0304:50	0305:55	162	214	5763		2	103, 10	
2985	205	81/07/24	0506:35	0509:20	614	145	4736		2	103, 11	
2986	205	81/07/24	0603:10	0603:25	70	87			2		

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2987	205	81/07/24	0622:40	0623:25	79	101	1150		2	103, 12	
2988	205	81/07/24	0626:45	0627:15	88	114	522		2		
2989	205	81/07/24	0747:35	0748:30	404	806	77860		5	103, 13	M
2990	205	81/07/24	1112:50	1114:25	128	120	1696		2	103, 15	
2991	205	81/07/24	1229:45	1230:55	140	72			2		
2992	205	81/07/24	1240:15	1241:05	116	142	1793		2	103, 16	
2993	205	81/07/24	1408:25	1409:40	105	93			2		
2994	205	81/07/24	2031:25	2032:05	94	261	4768		4	104, 1	
2995	205	81/07/24	2343:10	2346:30	316	117	7884		2	104, 2	
2996	206	81/07/25	0124:50	0125:10	60	69			2		
2997	206	81/07/25	0158:05	0158:35	105	93			2		
2998	206	81/07/25	0310:35	0311:10	83	121			2	104, 3	
2999	206	81/07/25	0634:55	0636:20	199	87			2		
3000	206	81/07/25	0919:20	0921:20	277	785	28421		4	104, 4	
3001	206	81/07/25	1059:40	1100:05	80	67			2		ND
3002	206	81/07/25	1110:20	1110:30	135	192			2	104, 5	ND
3003	206	81/07/25	1710:40	1712:35	520	1656	1.76E+05		10	104, 6	M, AX
3004	206	81/07/25	1726:10	1727:40	101	200	2245		2		AX
3005	206	81/07/25	1838:30	1851:00	2072	845	5.96E+05		12	104, 7	AX
3006	206	81/07/25	2013:00	2014:25	141	136	3423		2	104, 8	AX
3007	206	81/07/25	2025:00	2029:00	573	228	25140		12	104, 8	
3008	206	81/07/25	2156:00	2156:05	25	76			2		
3009	206	81/07/25	2201:30	2213:35	1059	93	18298		2	104, 9	AX
3010	206	81/07/25	2336:50	2337:35	87	555	7134		5	104, 10	M
3011	206	81/07/25	2345:25	2347:50	183	139	2419		2	104, 10	
3012	206	81/07/25	2353:55	2355:35	125	63			2		
3013	206	81/07/25	2358:05	2358:15	80	91			2		
3014	207	81/07/26	0121:30	0123:10	230	466	11855		3	104, 12	M
3015	207	81/07/26	0313:05	0313:15	23	167	543		4	104, 13	
3016	207	81/07/26	0404:20	0411:30	712	3008	1.59E+05		8	104, 14	M, SN, ND
3017	207	81/07/26	0547:55	0548:30	75	79			2		
3018	207	81/07/26	0559:15	0602:00	559	901	45051		5	104, 15	M
3019	207	81/07/26	0619:10	0619:40	81	157	1821		4	104, 15	
3020	207	81/07/26	0724:05	0725:25	165	97			2		
3021	207	81/07/26	0732:55	0733:45	312	65	1974		2	104, 16	
3022	207	81/07/26	0755:20	0805:45	1095	6974	8.24E+05		12	105, 1	M
3023	207	81/07/26	0850:30	0911:35	1476	1476	49581		5	105, 2	
3024	207	81/07/26	0941:45	0943:00	125	80			2		
3025	207	81/07/26	0947:25	0947:30	35	65			2		
3026	207	81/07/26	1107:40	1108:10	50	188	1109		4	105, 3	
3027	207	81/07/26	1111:05	1113:00	539	2614	2.54E+05		10	105, 3	
3028	207	81/07/26	1215:45	1216:10	56	107	829		2	105, 4	
3029	207	81/07/26	1249:40	1249:55	33	311	1746		3	105, 5	
3030	207	81/07/26	1347:35	1352:25	668	56177	8.12E+06		15	105, 6	M
3031	207	81/07/26	1528:10	1533:30	1079	217			2	105, 8	ND
3032	207	81/07/26	1847:40	1849:15	198	93			2		
3033	207	81/07/26	2134:00	2134:10	210	222	9948		2	105, 9	SN
3034	207	81/07/26	2203:00	2203:35	105	95			2		
3035	207	81/07/26	2214:35	2215:10	110	71			2		
3036	207	81/07/26	2218:15	2219:25	110	97			2		
3037	207	81/07/26	2320:50	2327:45	683	345	16537		5	105, 10	
3038	207	81/07/26	2347:15	2349:10	217	292	9316		5	105, 10	
3039	208	81/07/27	0001:30	0002:35	105	75			2		ES

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3040	208	81/07/27	0102:55	0107:55	408	294	9353		5	105, 11	
3041	208	81/07/27	0113:20	0114:30	169	600	27294		2	105, 11	
3042	208	81/07/27	0312:50	0313:40	123	110	1845		2	105, 12	
3043	208	81/07/27	0404:20	0407:15	212	223	3100		4	105, 13	
3044	208	81/07/27	0412:30	0414:15	378	8554	1.74E+05		9	105, 13	M
3045	208	81/07/27	0429:55	0430:05	25	62			2		
3046	208	81/07/27	0433:55	0434:10	170	77			2		
3047	208	81/07/27	0440:55	0441:15	195	77			2		
3048	208	81/07/27	0600:45	0601:15	60	82			2		
3049	208	81/07/27	0617:25	0617:55	69	451	1968		5	105, 14	M
3050	208	81/07/27	0627:35	0630:05	162	102	2327		2	105, 14	EN
3051	208	81/07/27	0721:50	0722:25	69	153	994		2	105, 15	
3052	208	81/07/27	0725:50	0726:30	119	125	2247		2	105, 15	
3053	208	81/07/27	0754:35	0755:10	65	62			2		
3054	208	81/07/27	0927:50	0928:10	40	65			2		
3055	208	81/07/27	0933:15	0933:40	60	72			2		
3056	208	81/07/27	1156:40	1157:35	87	80			3		
3057	208	81/07/27	1203:10	1203:25	35	80			3		
3058	208	81/07/27	1223:50	1225:10	175	66			2		
3059	208	81/07/27	1334:10	1343:50	1227	199	8473		15	106, 1	
3060	208	81/07/27	1411:50	1416:35	676	78	10135		5	106, 1	
3061	208	81/07/27	1515:56	1523:55	640	96	6727		5	106, 2	
3062	208	81/07/27	1647:00	1647:55	110	97			2		
3063	208	81/07/27	2201:35	2201:45	20	78			2		
3064	209	81/07/28	0125:45	0126:45	84	133	1460		2	106, 3	
3065	209	81/07/28	0216:25	0217:25	470	502	17522		3	106, 4	
3066	209	81/07/28	0257:50	0300:20	291	129	4621		2	106, 5	
3067	209	81/07/28	0712:50	0714:10	150	76			2		
3068	209	81/07/28	0725:35	0726:15	427	256	13752		3	106, 6	
3069	209	81/07/28	1020:40	1021:15	110	66			2		
3070	209	81/07/28	1232:10	1232:20	55	77			2		
3071	209	81/07/28	1402:50	1408:15	628	96	58758		6	106, 7	
3072	209	81/07/28	1640:35	1641:15	110	90			2		
3073	209	81/07/28	1950:00	1950:25	60	61			2		
3074	209	81/07/28	2009:00	2010:00	598	11321	4.95E+05		9	106, 8	M
3075	210	81/07/29	0240:30	0240:50	100	69			2		
3076	210	81/07/29	0357:15	0357:40	55	65			2		
* 3077	210	81/07/29	2258:00	2258:05	25	402	2649		5	106, 9	M
* 3078	210	81/07/29	2305:15	2306:45	223	360	7145		5	106, 9	
* 3079	211	81/07/30	0053:40	0054:00	45	80			2		
* 3080	211	81/07/30	0512:35	0513:15	60	97			2		
* 3081	211	81/07/30	0541:25	0541:45	75	65			2		
* 3082	211	81/07/30	0650:50	0651:00	50	66			2		
* 3083	211	81/07/30	0733:25	0734:40	112	195	1545		2	106, 11	
* 3084	211	81/07/30	0901:15	0901:40	162	382	2905		5	106, 12	
* 3085	211	81/07/30	1008:35	1010:40	166	644	3031		5	106, 13	
* 3086	211	81/07/30	1046:00	1046:40	302	1530	33272		4	106, 14	
3087	211	81/07/30	1135:50	1136:30	50	77			4		
3088	211	81/07/30	1156:50	1157:20	60	57			2		
3089	211	81/07/30	1307:40	1309:40	254	88	3874		4	106, 15	
3090	211	81/07/30	1345:05	1351:10	632	129	16337		9	106, 16	
3091	211	81/07/30	1449:20	1451:15	585	141	18715		6	107, 1	
3092	211	81/07/30	1614:10	1617:00	1359	308	72359		6	107, 2	M

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3093	211	81/07/30	1947:00	1947:40	63	195	1256		3	107, 4	
3094	211	81/07/30	1950:00	1951:15	238	446	9751		5	107, 4	M
3095	211	81/07/30	2131:35	2133:45	290	928	28283		5	107, 5	M
3096	211	81/07/30	2326:08	2325:45	132	403	18722		3	107, 6	M,ES
3097	212	81/07/31	0038:10	0038:15	20	358	1361		5	107, 7	
3098	212	81/07/31	0050:55	0053:15	337	1777	92528		7	107, 8	
3099	212	81/07/31	0326:35	0327:40	230	388	12866		4	107, 9	M
3100	212	81/07/31	0344:10	0345:15	145	70			2		
3101	212	81/07/31	0405:20	0406:05	234	139	5144		2	107, 11	
3102	212	81/07/31	0518:25	0518:35	80	111	1341		2	107, 12	
3103	212	81/07/31	0520:45	0521:10	55	92			2	107, 12	
3104	212	81/07/31	0555:20	0556:05	88	729	13768		8	107, 13	
3105	212	81/07/31	0840:55	0841:55	140	65			2		
3106	212	81/07/31	1120:45	1121:30	90	98			3		
3107	212	81/07/31	1314:20	1314:55	60	67			2		
3108	212	81/07/31	1940:20	1940:55	65	81			2		
3109	212	81/07/31	2252:55	2254:15	110	98			2		
3110	213	81/08/01	0050:55	0051:30	45	91			2		
3111	213	81/08/01	0457:30	0458:00	50	76			2		
3112	213	81/08/01	0807:25	0808:35	167	126	4167		2	107, 14	
3113	213	81/08/01	1116:25	1118:30	209	181	11438		13	107, 15	
3114	213	81/08/01	1249:35	1251:50	235	106	4876		4	107, 16	
3115	213	81/08/01	1438:10	1438:55	80	82			2		
3116	213	81/08/01	2227:55	2229:25	169	112	2798		2	108, 1	
3117	213	81/08/01	2258:05	2258:25	80	82			2		
3118	214	81/08/02	0039:35	0040:00	45	95			2		
3119	214	81/08/02	0135:05	0135:25	38	142	822		2	108, 2	
3120	214	81/08/02	0339:25	0339:45	60	94			2		
3121	214	81/08/02	0634:25	0637:00	290	150	4879		2	108, 3	
3122	214	81/08/02	1240:45	1241:15	198	85			3		AX
3123	214	81/08/02	2110:40	2111:20	75	70			2		
3124	215	81/08/03	0023:40	0025:50	135	65			2		
3125	215	81/08/03	0137:00	0137:25	57	150	1722		4	108, 4	
3126	215	81/08/03	0140:05	0140:55	105	81			2		
3127	215	81/08/03	0305:30	0306:35	195	74			2		
3128	215	81/08/03	0917:40	0918:40	155	68			3		
3129	215	81/08/03	0942:30	0943:45	120	79			3		
3130	215	81/08/03	0957:35	1001:10	804	157	16878		2	108, 5	
3131	215	81/08/03	1056:05	1059:10	353	180	16968		7	108, 6	M
3132	215	81/08/03	1118:30	1119:30	752	279	21614		5	108, 6	
3133	215	81/08/03	1138:40	1139:35	60	61			2		
3134	215	81/08/03	1244:25	1248:50	382	162	9187		3	108, 7	
3135	215	81/08/03	1601:15	1604:45	250	128	4723		2	108, 8	
3136	215	81/08/03	1857:30	1858:05	130	74			2		
3137	215	81/08/03	1921:00	1921:25	45	70			2		
3138	215	81/08/03	2026:20	2026:20	662	1270	1.90E+05	3257	3	108, 9	M,SN
3139	215	81/08/03	2221:55	2224:25	175	86			2		
3140	215	81/08/03	2336:35	2340:45	1160	440	1.13E+05	3257	4	108, 11	M,SN
3141	216	81/08/04	0132:10	0133:40	284	74	3490		2	108, 13	
3142	216	81/08/04	0206:55	0207:35	71	194	1195		2	108, 14	
3143	216	81/08/04	0210:30	0212:20	140	75			2		
3144	216	81/08/04	0458:15	0501:50	422	75	3436		2	108, 15	
3145	216	81/08/04	0622:35	0622:55	25	65			2		

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3146	216	81/08/04	0628:15	0628:25	60	74			2		
3147	216	81/08/04	0652:30	0654:00	129	388	3419		3	108, 16	M
3148	216	81/08/04	0656:10	0657:15	190	2469	21756	3257	8	108, 16	M
3149	216	81/08/04	0809:45	0810:25	195	340	13111		4	109, 1	
3150	216	81/08/04	0822:05	0824:35	180	92			2		
3151	216	81/08/04	0949:05	0951:45	288	131	3797		2	109, 2	
3152	216	81/08/04	1004:00	1006:05	155	73			2		
3153	216	81/08/04	1046:30	1050:30	421	118	10168		5	109, 3	
3154	216	81/08/04	1106:40	1107:40	195	91			2		
3155	216	81/08/04	1115:50	1117:20	165	67			2		
3156	216	81/08/04	1119:52	1122:05	170	127	1033		2	109, 4	
3157	216	81/08/04	1129:30	1130:45	182	434	12360	3257	3	109, 5	
3158	216	81/08/04	1221:25	1222:50	552	87	9559		5	109, 6	
3159	216	81/08/04	1451:10	1451:20	100	90			5		AX
3160	216	81/08/04	1531:05	1531:40	83	226	2038		3	109, 7	
3161	216	81/08/04	1842:25	1843:30	112	105	889		2	109, 8	
3162	216	81/08/04	1854:35	1854:45	100	113	560		2	109, 8	
3163	216	81/08/04	2041:50	2043:15	198	78			2		
3164	216	81/08/04	2054:50	2055:40	65	61			2		
3165	216	81/08/04	2332:00	2332:25	120	104	1194		2	109, 9	
3166	216	81/08/04	2345:55	2346:15	70	73			2		
3167	216	81/08/04	2347:40	2349:20	165	77			2		
3168	216	81/08/04	2351:55	2352:15	55	159	982		2	109, 10	
3169	216	81/08/04	2355:30	2355:40	55	69			2		
3170	216	81/08/04	2359:20	2359:30	85	84			2		
3171	217	81/08/05	0114:15	0114:40	100	60			2		
3172	217	81/08/05	0244:55	0243:15	105	93			3		
3173	217	81/08/05	0737:55	0739:00	245	1411	19363	3257	5	109, 11	M
3174	217	81/08/05	1053:25	1053:50	45	99			2		
3175	217	81/08/05	1212:00	1216:20	689	88	12256		5	109, 13	SN
3176	217	81/08/05	1541:55	1543:10	223	224	6637		2	109, 14	
3177	217	81/08/05	2041:25	2041:35	25	72			2		
3178	218	81/08/06	0424:25	0424:50	50	62			2		
3179	218	81/08/06	0458:30	0458:45	25	87			2		
3180	218	81/08/06	0920:25	0920:30	25	62			2		
3181	218	81/08/06	0924:10	0924:30	53	136	1255		3	109, 15	
3182	218	81/08/06	1031:20	1032:20	75	368	2587		4	109, 16	M
3183	218	81/08/06	1352:25	1352:50	50	70			2		
3184	219	81/08/07	0737:00	0737:40	190	65			2		
3185	219	81/08/07	1200:05	1202:15	145	74			3		
3186	219	81/08/07	1951:50	1952:50	2570	125		3257	3	110, 1	M, SN, ES
3187	220	81/08/08	1329:00	1329:10	16	253	1409		3	110, 2	
3188	220	81/08/08	2125:35	2133:20	780	192	22150		2	110, 3	
3189	220	81/08/08	2320:45	2321:05	50	69			2		
3190	221	81/08/09	0254:05	0254:35	60	74			2		
3191	221	81/08/09	0256:35	0257:10	75	94			2		
3192	221	81/08/09	1459:05	1500:15	296	186	11929	3257	5	110, 4	
3193	222	81/08/10	0657:05	0658:55	579	12265	4.59E+05	3257	10	110, 5	
3194	222	81/08/10	0724:35	0725:05	118	109	1377		2	110, 6	
3195	222	81/08/10	0745:05	0745:45	86	1847	27426		10	110, 7	
3196	222	81/08/10	2243:45	2244:30	65	69			2		
3197	223	81/08/11	0043:05	0043:45	75	68			2		
3198	223	81/08/11	0150:10	0150:30	115	89		3257	2		



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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3199	223	81/08/11	0158:50	0159:30	95	99			2		
3200	223	81/08/11	1434:00	1448:55	1007	744	1.16E+05	3257	5	110, 8	M, ES
3201	223	81/08/11	1807:10	1808:25	180	74			2		
3202	223	81/08/11	2116:55	2117:05	25	63			2		
3203	224	81/08/12	0106:00	0106:45	60	67			2		
3204	224	81/08/12	0219:10	0219:45	105	63			2		
3205	224	81/08/12	0221:40	0222:35	175	89			2		
3206	224	81/08/12	0229:20	0232:10	713	557	48672	3257	5	110, 9	M
3207	224	81/08/12	0338:00	0338:15	95	67			2		
3208	224	81/08/12	0345:15	0345:50	279	252	7281		5	110, 10	
3209	224	81/08/12	0417:30	0417:45	148	887	19316		7	110, 11	
3210	224	81/08/12	0551:15	0551:30	40	76			2		
3211	224	81/08/12	0628:50	0629:15	1498	19518	2.01E+06	3257	5	110, 12	M, SN
3212	224	81/08/12	1025:20	1026:15	218	292	9273		3	110, 13	M
3213	224	81/08/12	1034:35	1035:10	50	67			2		
3214	224	81/08/12	1253:40	1254:30	80	56			2		
3215	224	81/08/12	1256:30	1256:45	45	54			2		
3216	224	81/08/12	1300:15	1300:35	71	176	1292		3	110, 15	M
3217	224	81/08/12	2058:15	2059:10	85	79			2		
3218	224	81/08/12	2100:20	2100:35	110	80			2		
3219	224	81/08/12	2103:30	2110:50	1236	458	1.23E+05		3	110, 16	
3220	225	81/08/13	0003:30	0003:55	40	68			2		
3221	225	81/08/13	0007:35	0007:40	35	72			2		
3222	225	81/08/13	0029:40	0031:20	313	160	8859		2	111, 1	
3223	225	81/08/13	0207:30	0210:20	199	69			2		
3224	225	81/08/13	0341:55	0342:25	277	304	18248		4	111, 2	ND
3225	225	81/08/13	0400:40	0400:55	32	134	1117		8	111, 2	
3226	225	81/08/13	0402:30	0404:05	180	62			2		
3227	225	81/08/13	0505:25	0507:20	180	71			2		
3228	225	81/08/13	0637:25	0637:45	83	133			2		
3229	225	81/08/13	0715:05	0716:30	487	3262	1.45E+05	3257	2	111, 4	
3230	225	81/08/13	1159:15	1200:15	479	315	11969		7	111, 3	
3231	225	81/08/13	1335:20	1338:00	503	297	28465		2	111, 5	
3232	225	81/08/13	1609:30	1609:45	30	81			2	111, 6	
3233	225	81/08/13	2134:55	2137:40	342	342	17185		2	111, 7	
3234	225	81/08/13	2237:40	2237:55	46	322	2466		3	111, 8	M
3235	225	81/08/13	2309:10	2309:25	25	95			2		
3236	226	81/08/14	0015:00	0015:40	40	63			2		
3237	226	81/08/14	0024:20	0048:25	1774	501	40521		6	111, 10	EN
3238	226	81/08/14	0504:15	0504:25	55	70			2		
3239	226	81/08/14	0511:55	0512:35	122	189	2404		2	111, 11	
3240	226	81/08/14	0518:10	0521:00	473	231	18957		2	111, 11	
3241	226	81/08/14	0621:35	0635:45	1327	292	39135		14	111, 12	M
3242	226	81/08/14	0826:05	0826:40	105	66			2		
3243	226	81/08/14	1320:05	1320:25	35	94			2		
3244	226	81/08/14	1547:30	1548:00	70	79			2		
3245	226	81/08/14	1823:35	1825:10	103	287	5436	3257	2	111, 14	EN
3246	226	81/08/14	2309:20	2310:30	73	129	1187		2	111, 15	EN
3247	227	81/08/15	0125:45	0127:20	130	77			2		
3248	227	81/08/15	0136:30	0137:55	356	135	8726		5	111, 16	
3249	227	81/08/15	0255:50	0256:30	111	115	2310		2	112, 1	M
3250	227	81/08/15	0640:35	0645:20	438	212	23391		2	112, 3	
3251	228	81/08/16	1725:15	1727:30	229	322	17318	3257	5	112, 4	M

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3252	228	81/08/16	1934:40	1935:55	198	69					
3253	228	81/08/16	2234:25	2235:15	190	85			2		
3254	228	81/08/16	2349:00	2349:50	175	85			2		
3255	229	81/08/17	0024:25	0025:25	95	78			2		
3256	229	81/08/17	0250:20	0251:40	462	1110	62131	3257	4		AX
3257	229	81/08/17	1349:35	1350:15	120	88			8	112, 5	M
3258	229	81/08/17	2331:40	2332:45	155	88			2		
3259	230	81/08/18	0504:10	0504:45	292	114	4968		2		
3260	230	81/08/18	0640:15	0641:00	190	72			2	112, 7	
3261	230	81/08/18	1115:30	1117:05	216	495	11714		2		
3262	230	81/08/18	1121:35	1121:45	35	74			5	112, 8	M
3263	230	81/08/18	1614:15	1614:55	75	78			2		
3264	230	81/08/18	1741:25	1741:55	115	61			2		
3265	231	81/08/19	0322:10	0323:05	105	76			2		
3266	231	81/08/19	1238:50	1239:05	40	69			2		
3267	231	81/08/19	1246:05	1251:55	697	163	21469		2		
3268	231	81/08/19	1551:05	1551:20	50	83			2	112, 9	
3269	231	81/08/19	2136:25	2138:00	280	127	8488		2		
3270	232	81/08/20	0225:35	0226:30	183	118	2892		6	112, 10	
3271	232	81/08/20	0415:25	0416:00	155	69			2	112, 11	
3272	232	81/08/20	1224:55	1225:20	35	75			2		
3273	232	81/08/20	1327:45	1328:05	61	119	1201		2	112, 12	M
3274	232	81/08/20	1553:45	1554:40	148	185	2969		2	112, 13	
3275	232	81/08/20	1634:25	1635:05	90	61			2		
3276	232	81/08/20	1845:55	1847:35	226	168	10771		2	112, 14	
3277	232	81/08/20	2032:25	2033:05	40	83			2		
3278	232	81/08/20	2347:30	2349:25	203	169	3386		6	112, 15	
3279	233	81/08/21	0057:05	0057:40	57	117	1121		2	112, 16	
3280	233	81/08/21	0212:45	0213:40	196	923	32068		4	113, 1	M
3281	233	81/08/21	0410:55	0411:55	75	79			2		
3282	233	81/08/21	0433:15	0434:45	267	373	12178		4	113, 3	
3283	233	81/08/21	0720:55	0721:55	124	113	2179		2	113, 4	M
3284	233	81/08/21	0853:05	0853:05	838	530	1.16E+05		8	113, 6	M, SA
3285	233	81/08/21	1212:00	1212:25	105	75			2		
3286	233	81/08/21	1221:50	1222:10	50	65			2		
3287	233	81/08/21	1627:25	1627:35	179	1486	16666		6	113, 7	
3288	233	81/08/21	1714:00	1715:10	122	122	2384		2	113, 8	
3289	233	81/08/21	1722:35	1724:50	195	62			2		
3290	233	81/08/21	2122:40	2123:15	85	85			2		
3291	233	81/08/21	2125:30	2126:15	70	69			2		
3292	233	81/08/21	2312:35	2314:10	190	67			2		
3293	233	81/08/21	2338:05	2342:30	305	72	3247		3	113, 9	AX
3294	234	81/08/22	0111:15	0112:15	70	97			2		ND
3295	234	81/08/22	0241:45	0243:15	129	140	3322		3	113, 10	
3297	234	81/08/22	0358:15	0359:40	150	96			2		
3298	234	81/08/22	0732:50	0734:10	125	92			2		
3299	234	81/08/22	0846:30	0846:40	25	157	509		2	113, 11	
3300	234	81/08/22	1211:55	1212:55	90	85			2		
3301	234	81/08/22	1442:40	1443:45	190	107	1567		2	113, 12	
3302	235	81/08/23	1453:50	1455:10	93	155	4717		2	113, 13	ES
3303	235	81/08/23	0229:00	0229:35	55	84			2		
3304	235	81/08/23	0851:50	0853:55	140	70			2		
			1531:45	1532:00	30	102			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3305	235	81/08/23	2055:10	2057:15	651	193	27294		6	113, 14	AX
3306	235	81/08/23	2116:45	2117:35	115	57			2		
3307	235	81/08/23	2141:20	2142:35	130	73			2		
3308	235	81/08/23	2231:10	2235:45	872	238	85460		5	113, 15	AX
3309	235	81/08/23	2310:25	2322:45	896	420	81300		11	113, 16	
3310	236	81/08/24	0044:50	0101:20	1305	592	1.29E+05		15	114, 1	M, AX
3311	236	81/08/24	0147:00	0149:50	333	143	9666		4	114, 2	AX
3312	236	81/08/24	0233:34	0233:45	35	79			2		
3313	236	81/08/24	0325:25	0326:00	122	344	13330		4	114, 3	
3314	236	81/08/24	1004:05	1004:45	73	115	1786		2	114, 4	SA
3315	236	81/08/24	1907:20	1904:45	456	145	15389		6	114, 5	
3316	236	81/08/24	2045:45	2047:00	615	365	37281		5	114, 6	
3317	236	81/08/24	2129:30	2130:25	150	76			4		
3318	236	81/08/24	2228:15	2231:00	265	89	14514		2	114, 7	
3319	236	81/08/24	2307:10	2313:30	569	96	8133		9	114, 8	
3320	237	81/08/25	0039:00	0039:40	65	99			2		
3321	237	81/08/25	0513:05	0513:55	120	145			2	114, 9	DG
3322	237	81/08/25	0717:30	0717:45	85	93			2		
3323	237	81/08/25	1319:50	1320:15	60	76			2		
3324	237	81/08/25	1942:45	1943:15	85	77			2		
3325	237	81/08/25	2044:35	2045:30	145	71			3		
3326	237	81/08/25	2119:30	2120:40	120	84			5		
3327	237	81/08/25	2220:50	2222:20	193	409	23498		6	114, 10	M, AX
3328	237	81/08/25	2257:20	2258:45	124	136	5289		5	114, 12	AX
3329	237	81/08/25	2302:50	2304:35	226	122	7222		14	114, 12	AX
3330	238	81/08/26	0043:20	0044:30	180	79			14		AX
3331	238	81/08/26	0332:05	0337:15	649	112	14426		2	114, 13	
3332	238	81/08/26	1013:30	1013:45	30	73			14		
3333	238	81/08/26	1751:15	1751:30	73	208	1922		2	114, 14	
3334	238	81/08/26	2026:20	2027:50	558	165	30909		5		AX
3335	238	81/08/26	2106:05	2114:25	598	156	10946		2	114, 15	
3336	238	81/08/26	2121:30	2123:35	191	120	4613		2	114, 15	
3337	238	81/08/26	2207:50	2210:00	291	253	27945		5	114, 16	AX
3338	239	81/08/27	0303:50	0304:25	126	104	1754		2	115, 1	
3339	239	81/08/27	0449:45	0452:45	454	182	20804		2	115, 2	
3340	239	81/08/27	0458:40	0459:55	200	184	8548		4	115, 2	
3341	239	81/08/27	0826:10	0826:35	68	111	723		2	115, 3	
3342	239	81/08/27	1315:00	1315:25	80	75			2		
3343	239	81/08/27	1726:35	1726:45	35	131	347		2	115, 4	
3344	239	81/08/27	1755:40	1756:05	75	58			2		
3345	239	81/08/27	1859:50	1900:35	85	59			2		
3346	239	81/08/27	2213:25	2214:05	100	148			2	115, 5	ND
3347	240	81/08/28	0013:50	0015:45	170	39			2		
3348	240	81/08/28	0112:55	0118:45	382	69	3324		5	115, 6	AX
3349	240	81/08/28	0136:45	0137:40	110	129	3481		5	115, 7	
3350	240	81/08/28	0145:45	0146:40	120	72			2		
3351	240	81/08/28	0257:00	0257:25	45	63			2		
3352	240	81/08/28	0334:45	0335:20	52	170	2924		2	115, 8	
3353	240	81/08/28	0507:00	0507:10	30	72			2		
3354	240	81/08/28	0750:30	0751:10	60	182	2420		4	115, 9	
3355	240	81/08/28	1112:55	1113:10	40	77			2		
3356	240	81/08/28	1214:45	1214:55	127	268	5645		1	115, 10	SN
3357	240	81/08/28	1350:05	1350:15	112	117	1550		2	115, 11	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3358	240	81/08/28	1408:25	1409:30	130	81			2		
3359	240	81/08/28	1424:15	1425:55	626	76	5230		2	115, 12	
3360	240	81/08/28	1724:10	1724:45	130	66			2		
3361	240	81/08/28	1836:25	1841:25	703	159	25218		2	115, 13	
3362	240	81/08/28	1852:20	1852:50	60	65			2		
3363	240	81/08/28	1922:55	1923:40	146	599	11124		5	115, 14	
3364	240	81/08/28	2017:05	2017:55	95	72			2		
3365	240	81/08/28	2028:45	2029:25	204	438	4986		5	115, 15	
3366	240	81/08/28	2035:50	2036:30	60	181	1533		2	115, 15	
3367	240	81/08/28	2054:20	2056:10	190	74			9		
3368	240	81/08/28	2149:35	2150:40	134	232	9721		7	115, 16	AX
3369	240	81/08/28	2228:30	2231:55	547	81	5085		4	116, 1	
3370	241	81/08/29	0244:00	0244:20	65	62			2		
3371	241	81/08/29	0452:45	0454:10	180	251	6769		3	116, 2	
3372	241	81/08/29	0633:40	0643:10	612	120	3361		2	116, 3	EN
3373	241	81/08/29	0751:40	0752:35	95	106	1805		2	116, 4	
3374	241	81/08/29	0758:25	0759:45	167	249	2777		4	116, 4	
3375	241	81/08/29	1056:40	1058:15	197	143	1659		2	116, 6	
3377	241	81/08/29	1106:25	1106:35	50	56			2		
3376	241	81/08/29	1303:10	1304:30	163	1378	25853		5	116, 5	M
3378	241	81/08/29	1535:30	1537:30	195	84			2		
3379	241	81/08/29	1554:25	1555:05	65	94			2		
3380	241	81/08/29	1857:10	1857:25	115	63			2		
3381	241	81/08/29	2016:15	2023:50	2730	139	51489		15	116, 7	
3382	241	81/08/29	2143:35	2143:40	30	78			2		
3383	241	81/08/29	2218:35	2225:10	615	177	31426		15	116, 8	
3384	242	81/08/30	0119:00	0120:25	667	376	33184		5	116, 9	M
3385	242	81/08/30	0231:45	0233:55	223	105	3866		2	116, 10	
3386	242	81/08/30	0306:00	0306:10	70	93			2		
3387	242	81/08/30	0312:45	0314:55	150	85			2		
3388	242	81/08/30	0907:25	0909:55	349	3118	2.11E+05		10	116, 11	M
3389	242	81/08/30	0926:45	0927:35	105	76			2		
3390	242	81/08/30	1254:45	1255:10	135	93			3		
3391	242	81/08/30	1543:10	1543:30	55	69			2		
3392	242	81/08/30	1544:40	1545:05	85	82			2		
3393	242	81/08/30	1605:40	1606:00	35	72			2		
3394	242	81/08/30	1849:05	1849:55	301	463	18013		4	116, 13	
3395	242	81/08/30	2014:05	2014:20	39	123	1218		3	116, 14	
3396	242	81/08/30	2031:30	2034:40	427	65	3465		2	116, 15	
3397	242	81/08/30	2202:00	2202:45	131	230	2584		4	116, 16	
3398	242	81/08/30	2211:20	2215:20	475	84	7552		4	116, 16	
3399	242	81/08/30	2357:20	2358:10	98	137	1870		3	117, 1	
3400	243	81/08/31	0048:30	0049:30	85	92			2		
3401	243	81/08/31	0104:40	0104:55	97	213	2478		4	117, 2	
3402	243	81/08/31	0107:35	0108:00	151	227	2541		4	117, 2	
3403	243	81/08/31	0111:25	0112:00	143	229	4692		3	117, 2	
3404	243	81/08/31	0117:15	0118:40	248	365	11606		5	117, 2	
3405	243	81/08/31	0543:15	0545:55	200	100			2		
3406	243	81/08/31	0548:35	0549:30	187	73			2		
3407	243	81/08/31	0722:25	0723:20	413	1108	83427		5	117, 3	M
3408	243	81/08/31	0911:40	0912:10	139	143	3103		2	117, 5	
3409	243	81/08/31	1350:25	1354:35	700	1017	1.55E+05		4	117, 6	M, DG
3410	243	81/08/31	1508:35	1508:50	30	56			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3411	243	81/08/31	1539:55	1540:25	70	77			2		
3412	243	81/08/31	1809:50	1810:05	391	133	8165		2		
3413	243	81/08/31	1949:10	1950:20	226	170	8335		3	117, 8	SN, AX
3414	244	81/09/01	0401:35	0402:05	80	294	4138		3	117, 9	AX
3415	244	81/09/01	0539:20	0542:05	304	483	18253		2	117, 10	
3416	244	81/09/01	1649:05	1652:35	295	92	4353		2	117, 11	
3417	245	81/09/02	0346:30	0347:15	150	75			2	117, 12	
3418	245	81/09/02	0534:05	0534:45	202	1098	32671		5	117, 13	M
3419	245	81/09/02	0549:15	0550:30	140	68			2		
3420	245	81/09/02	0846:30	0847:25	140	94			2		
3421	245	81/09/02	1814:05	1815:10	65	73			2		
3422	245	81/09/02	2004:45	2007:30	319	88	3886		10	117, 15	
3423	246	81/09/03	0411:40	0412:25	80	68			2		
3424	246	81/09/03	0907:20	0907:35	30	60			2		
3425	246	81/09/03	1518:05	1518:15	39	120	883		2	117, 16	
3426	246	81/09/03	1612:35	1613:05	50	64			2		
3427	246	81/09/03	1639:20	1640:55	237	109	4856		2	118, 1	
3428	246	81/09/03	2014:05	2015:00	75	79			2		
3429	246	81/09/03	2129:30	2129:55	53	341	1924		4	118, 2	
3430	246	81/09/03	2255:50	2257:40	1432	4869	8.98E+05		6	118, 3	
3431	247	81/09/04	1253:20	1253:45	60	97			2		
3432	247	81/09/04	1559:25	1559:45	180	448	7557		4	118, 4	
3433	248	81/09/05	0021:00	0021:20	60	72			2		
3434	248	81/09/05	0343:15	0343:40	45	100			2		
3435	248	81/09/05	0500:50	0501:05	25	99			2		
3436	248	81/09/05	0538:20	0538:50	70	73			2		
3437	248	81/09/05	0659:20	0659:50	60	1314	12884		9	118, 5	
3438	248	81/09/05	0706:25	0706:55	134	494	13240		8	118, 5	
3439	248	81/09/05	0949:00	0950:15	170	87			2		
3440	248	81/09/05	0953:45	0954:05	45	58			2		
3441	248	81/09/05	1001:10	1002:10	140	64			2		
3442	248	81/09/05	1027:50	1028:50	84	360	6664		2	118, 6	
3443	248	81/09/05	1109:45	1111:15	148	127	2961		2	118, 7	
3444	248	81/09/05	1118:45	1119:10	185	68			2		
3445	248	81/09/05	1150:55	1151:30	88	111	857		2	118, 8	
3446	248	81/09/05	1556:35	1557:15	85	67			2		
3447	248	81/09/05	1607:20	1608:10	183	336	9623		4	118, 9	
3448	248	81/09/05	1901:30	1902:00	900	430	76542		3	118, 10	SN
3449	249	81/09/05	2041:40	2042:00	50	103			2		
3450	248	81/09/05	2058:50	2059:15	81	220	5360		3	118, 11	
3451	248	81/09/05	2114:10	2114:25	27	165	974		2	118, 12	
3452	248	81/09/05	2116:20	2116:30	35	73			2	118, 12	
3453	248	81/09/05	2123:35	2124:40	139	140	2672		2	118, 12	
3454	248	81/09/05	2238:10	2238:45	220	140	3293		2	118, 13	
3455	248	81/09/05	2358:50	0001:30	525	2848	2.97E+05		8	118, 14	M
3456	249	81/09/06	0316:20	0316:30	26	292	1425		4	118, 16	
3457	249	81/09/06	0502:05	0502:10	28	157	450		2	119, 1	
3458	249	81/09/06	1007:50	1008:35	75	84			2		
3459	249	81/09/06	1246:20	1249:35	209	156	2187		2	119, 2	
3460	249	81/09/06	1624:40	1624:50	15	58			2		
3461	249	81/09/06	1626:30	1627:05	65	54			2		
3462	249	81/09/06	1733:10	1733:35	35	77			2		
3463	249	81/09/06	1812:30	1812:45	434	92	8026		5	119, 3	EN

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
3464	249	81/09/06	1905:35	1906:00	158	149	2352		2	119, 4	
3465	249	81/09/06	1935:10	1935:40	139	130	3013		2	119, 5	
3466	249	81/09/06	2102:00	2109:45	1070	1348	1.84E+05		5	119, 6	
3467	249	81/09/06	2353:10	2353:35	72	1551	20789		9	119, 7	M
3468	250	81/09/07	0006:15	0011:20	1080	3060	4.68E+05		4	119, 7	
3469	250	81/09/07	0118:40	0120:40	223	2408	67546		4	119, 8	M
3470	250	81/09/07	0124:45	0125:50	116	109	2073		2	119, 8	
3471	250	81/09/07	0158:30	0155:55	30	71			2		
3472	250	81/09/07	0203:15	0203:40	112	838	13564		5	119, 10	
3473	250	81/09/07	0310:40	0312:55	1179	106	18062		2	119, 11	
3474	250	81/09/07	0500:40	0501:05	58	254	1620		4	119, 12	
3475	250	81/09/07	0503:40	0503:55	35	91			2	119, 12	
3476	250	81/09/07	0509:10	0511:40	984	25878	1.39E+06		14	119, 12	
3477	250	81/09/07	0639:45	0645:50	654	139	5102		2	119, 13	
3478	250	81/09/07	1134:55	1136:15	496	824	39966		4	119, 14	M
3479	250	81/09/07	1256:25	1257:00	120	63			2		
3480	250	81/09/07	1404:45	1405:45	79	202	1335		3	119, 15	
3481	250	81/09/07	1416:05	1416:55	135	80			2		
3482	250	81/09/07	1444:10	1446:50	325	370	9778		3	119, 16	
3483	250	81/09/07	1715:55	1716:20	55	59			2		
3484	250	81/09/07	2054:15	2057:00	464	262	25514		2	120, 1	
3485	250	81/09/07	2222:25	2223:20	455	8504	4.14E+05		13	120, 2	M
3486	251	81/09/08	0016:05	0016:50	158	166	1996		2	120, 4	
3487	251	81/09/08	0338:20	0339:00	156	162	3451		2	120, 5	
3488	251	81/09/08	0433:55	0434:05	30	78			2		
3489	251	81/09/08	0450:05	0450:35	40	75			2		
3490	251	81/09/08	0452:20	0454:05	485	182	16085		2	120, 6	
3491	251	81/09/08	0624:55	0625:05	36	115	550		2	120, 7	
3492	251	81/09/08	0626:15	0626:35	45	86			2	120, 7	
3493	251	81/09/08	1053:35	1055:55	45	338	2705		4	120, 8	
3494	251	81/09/08	1226:30	1227:40	125	60			2		
3495	251	81/09/08	1535:25	1536:15	277	331			2	120, 9	ND
3496	251	81/09/08	1700:00	1700:40	866	414	54251		3	120, 10	SN
3497	251	81/09/08	1727:05	1728:00	123	314	9038		3	120, 10	
3498	251	81/09/08	1743:10	1743:30	60	75			2		
3499	251	81/09/08	1901:15	1901:45	60	80			2		
3500	251	81/09/08	1919:10	1919:35	55	72			2		
3501	251	81/09/08	2027:35	2028:35	96	127	1007		2	120, 11	
3502	251	81/09/08	2031:35	2032:05	55	73			2		
3503	251	81/09/08	2322:15	2322:55	95	377	6066		4	120, 12	
3504	251	81/09/08	2331:50	2332:40	102	163	2742		3	120, 12	
3505	251	81/09/08	2337:15	2338:20	145	66			2		
3506	252	81/09/09	0113:30	0114:05	218	1020	37518		4	120, 13	M
3507	252	81/09/09	0146:10	0146:40	55	76			2		
3508	252	81/09/09	0506:45	0506:55	45	98			2		
3509	252	81/09/09	0727:05	0731:15	486	321	19102		3	120, 15	
3510	252	81/09/09	1100:15	1100:25	80	84			2		
3511	252	81/09/09	1358:55	1359:10	50	68			2		
3512	252	81/09/09	1551:00	1551:25	60	68			2		
3513	252	81/09/09	2024:30	2024:35	10	100			2		
3514	252	81/09/09	2032:50	2035:30	220	381	10676		3	120, 16	
3515	252	81/09/09	2206:05	2208:40	973	400	59583		3	121, 1	
3516	252	81/09/09	2350:40	2350:55	45	66			2		

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3517	252	81/09/09	2355:30	0000:20	577	170	12250		2	121, 2	
3518	253	81/09/10	0300:40	0302:40	210	74			2		
3519	253	81/09/10	0557:10	0558:40	80	70			2		
3520	253	81/09/10	0935:35	0940:45	610	28539	1.42E+06		11	121, 3	EN
3521	253	81/09/10	1054:20	1055:15	80	61			2		
3522	253	81/09/10	1336:10	1336:25	30	93			2		
3523	253	81/09/10	1346:10	1347:40	315	94	41014		2	121, 4	
3524	253	81/09/10	1838:40	1842:55	471	78	4314		4	121, 5	
3525	254	81/09/11	0040:10	0045:55	887	102	4729		2	121, 6	
3526	254	81/09/11	0114:55	0116:00	179	416	14450		3	121, 7	
3527	254	81/09/11	0130:00	0131:45	140	70			2		
3528	254	81/09/11	0712:30	0713:50	146	508	12353		4	121, 8	M
3529	254	81/09/11	0734:40	0734:50	35	65			2		
3530	254	81/09/11	0752:10	0753:50	297	819	27286		4	121, 9	
3531	254	81/09/11	1014:10	1018:45	535	543	36127		3	121, 10	M
3532	254	81/09/11	1213:30	1214:55	195	71			2		
3533	254	81/09/11	1335:20	1337:20	165	65			3		
3534	254	81/09/11	1411:00	1414:00	487	60			4		SA
3535	254	81/09/11	1515:30	1517:15	170	75			3		
3536	254	81/09/11	1647:50	1649:15	140	73			5		
3537	254	81/09/11	2128:05	2128:45	100	64			2		
3538	254	81/09/11	2132:05	2132:50	155	120	1985		2	121, 12	
3539	254	81/09/11	2139:25	2140:10	85	112	1179		2	121, 12	
3540	254	81/09/11	2157:55	2158:00	11	315	1217		4	121, 13	
3541	254	81/09/11	2158:45	2159:05	50	86			2	121, 13	
3542	254	81/09/11	2310:15	2311:20	486	7554	4.14E+05		8	121, 14	M
3543	255	81/09/12	0037:35	0038:35	136	113	1429		2	121, 16	
3544	255	81/09/12	0046:00	0046:40	166	452	12195		3	121, 16	
3545	255	81/09/12	0059:40	0100:15	55	65			2		
3546	255	81/09/12	0344:15	0344:40	90	64			2		
3547	255	81/09/12	0521:15	0531:45	838	157	6890		3	122, 1	
3548	255	81/09/12	0708:25	0709:25	201	171	7644		2	122, 2	
3549	255	81/09/12	0718:50	0721:00	325	102	7339		2	122	
3550	255	81/09/12	0728:30	0728:45	38	179	1102		2	122, 2	
3551	255	81/09/12	0739:10	0740:55	140	86			2		
3552	255	81/09/12	1005:30	1005:40	41	127	468		2	122, 3	
3553	255	81/09/12	1151:05	1158:35	677	108	10304		2	122, 4	
3554	255	81/09/12	1228:25	1230:55	290	134	5038		2	122, 5	
3555	255	81/09/12	1315:00	1315:55	100	87			2		
3556	255	81/09/12	1525:30	1525:40	75	76			2		
3557	255	81/09/12	1800:30	1801:05	90	60			2		
3558	255	81/09/12	2321:50	2322:15	50	94			2		
3559	255	81/09/12	2324:50	2325:05	160	84			2		
3560	256	81/09/13	0047:25	0048:10	72	106	3019		2	122, 6	
3561	256	81/09/13	0959:55	1001:00	349	111	2793		2	122, 7	
3562	256	81/09/13	1039:45	1040:25	65	90			2		
3563	256	81/09/13	1316:15	1317:20	175	68			4		
3564	256	81/09/13	1503:15	1503:20	15	81			2		
3565	256	81/09/13	1644:05	1644:30	50	56			2		
3566	256	81/09/13	1943:50	1944:05	45	92			2		
3567	256	81/09/13	1946:45	1947:10	155	117	2738		2	122, 8	
* 3568	257	81/09/14	0054:30	0054:55	35	79			2		
* 3569	257	81/09/14	0715:50	0716:25	114	155	2168		2	122, 9	

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* 3570	257	81/09/14	1004:40	1005:00	50	66			2		
* 3571	257	81/09/14	1136:35	1137:00	50	74			2		
* 3572	257	81/09/14	1154:30	1155:30	175	61			2		
* 3573	257	81/09/14	1305:55	1307:15	247	120	5587		5	122, 10	
* 3574	257	81/09/14	2242:35	2243:30	85	74			2		
* 3575	257	81/09/14	2244:40	2245:35	100	98			2		
* 3576	257	81/09/14	2254:20	2258:05	351	450	29691		4	122, 11	
* 3577	258	81/09/15	0007:25	0008:05	170	87			2		
* 3578	258	81/09/15	0038:40	0049:15	1265	393	26535		5	122, 12	EN
* 3579	258	81/09/15	0343:20	0345:40	64	103	608		2	122, 13	
* 3580	258	81/09/15	1258:30	1259:30	70	84			7		
* 3581	258	81/09/15	1343:10	1343:10	95	90			2		
* 3582	258	81/09/15	1934:05	1934:40	135	70			2		
* 3583	258	81/09/15	2101:10	2102:00	181	152	4401		2	122, 14	M
* 3584	258	81/09/15	2110:15	2114:40	931	28212	3.10E+06		15	122, 14	EN
* 3585	259	81/09/16	0040:15	0040:35	80	98			2		
* 3586	259	81/09/16	0134:35	0135:40	185	90			2		
* 3587	259	81/09/16	0140:25	0141:25	165	73			2		
* 3588	259	81/09/16	0636:00	0637:45	190	77			2		
* 3589	259	81/09/16	1104:10	1108:15	306	365	14734		10	122, 13	M
* 3590	259	81/09/16	1332:05	1334:15	237	244	7096		3	123, 1	
* 3591	259	81/09/16	1609:50	1610:10	109	135	2198		2	123, 2	
* 3592	259	81/09/16	1745:20	1747:00	613	68	5080		2	123, 3	
* 3593	260	81/09/17	0128:30	0129:35	126	177	2980		2	123, 4	
* 3594	260	81/09/17	0136:55	0137:45	170	101			2		
* 3595	260	81/09/17	0321:30	0321:50	95	67			2		
* 3596	260	81/09/17	0434:35	0435:10	80	73			2		
* 3597	260	81/09/17	0523:20	0523:40	46	155	1540		3	123, 5	
* 3598	260	81/09/17	0643:10	0645:55	515	72	2212		2	123, 6	
* 3599	260	81/09/17	1055:20	1056:50	242	163	10714		6	123, 7	
* 3600	260	81/09/17	1236:20	1238:15	205	76			2		
* 3601	260	81/09/17	1246:50	1247:05	60	65			2		
* 3602	260	81/09/17	1417:05	1417:20	25	65			2		
* 3603	260	81/09/17	1900:50	1901:00	40	60			2		
* 3604	260	81/09/17	2355:25	2355:45	55	153	1302		2	123, 8	
* 3605	261	81/09/18	0129:10	0132:25	490	1189	38601		5	123, 9	
* 3606	261	81/09/18	0332:45	0333:25	170	95			2		
* 3607	261	81/09/18	0444:50	0445:03	176	129	3305		2	123, 10	
* 3608	261	81/09/18	1413:40	1415:20	246	137	3464		2	123, 11	
* 3609	261	81/09/18	1732:25	1733:10	80	162	2108		2	123, 12	
* 3610	262	81/09/19	0312:10	0313:15	602	379	24595		5	123, 13	
* 3611	262	81/09/19	0412:30	0413:00	50	60			2		
* 3612	262	81/09/19	0550:10	0551:05	513	1954	81151		9	123, 14	M
* 3613	262	81/09/19	0602:40	0603:05	50	96			2		AX
* 3614	262	81/09/19	1033:35	1037:00	369	154	14723		8	123, 16	AX
* 3615	262	81/09/19	1215:57	1217:05	230	85			4		
* 3616	262	81/09/19	1438:40	1440:00	243	105	3926		2	124, 1	SA
* 3617	263	81/09/20	1025:00	1027:40	255	109	7417		5	124, 2	
* 3618	263	81/09/20	1117:00	1117:15	30	75			2		
3619	264	81/09/21	1054:05	1054:55	210	110	3492		2	124, 3	
3620	265	81/09/22	0834:35	0844:20	1831	379	68298		7	124, 4	M
3621	266	81/09/23	0556:25	0557:25	140	76			2		
3622	266	81/09/23	0714:55	0715:40	181	336	5397		4	124, 6	



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3623	271	81/09/28	2358:20	2359:10	155	70			2		
3624	272	81/09/29	0119:20	0119:30	30	57			2		
3625	272	81/09/29	0121:00	0121:30	95	61			2		
3626	273	81/09/30	1711:40	1712:35	195	94			2		
3627	273	81/09/30	1846:05	1846:40	58	126	929		3	124, 7	
3628	273	81/09/30	2001:20	2001:40	30	68			2		
3629	273	81/09/30	2213:40	2213:50	30	90			2		
3630	274	81/10/01	0410:30	0411:20	105	60			2		
3631	274	81/10/01	1737:30	1738:25	75	97			2		
3632	274	81/10/01	1949:55	1957:40	860	229	42074		3	124, 8	
3633	274	81/10/01	2358:35	2359:05	50	64			2		
3634	275	81/10/02	0728:30	0729:00	50	74			2		
3635	275	81/10/02	1630:25	1635:10	521	405	33117		2	124, 9	M
3636	276	81/10/03	2005:40	2006:20	100	65			2		
3637	277	81/10/04	0057:40	0057:45	20	52			2		
3638	277	81/10/04	0059:30	0059:40	60	52			2		
3639	277	81/10/04	0101:10	0101:45	85	53			2		
3640	277	81/10/04	0706:15	0706:30	40	67			5		
3641	278	81/10/05	0151:15	0152:05	125	95			2		
3642	278	81/10/05	0155:30	0156:30	100	73			2		
3643	278	81/10/05	0509:00	0509:00	183	112	3004		5	124, 11	SA
3644	278	81/10/05	0551:50	0552:25	120	54			2		
3645	278	81/10/05	2233:50	2235:00	150	67			2		
3646	279	81/10/06	0320:25	0321:30	195	85			6		
3647	279	81/10/06	2044:50	2046:20	235	116	5977		4	124, 12	
3648	279	81/10/06	2220:55	2221:35	85	88			3		
3649	280	81/10/07	1233:40	1234:25	352	245	13450		3	124, 13	M,ES
3650	280	81/10/07	1329:05	1329:25	115	78			2		
3651	280	81/10/07	1632:50	1635:55	350	346	20655		3	124, 14	M
3652	280	81/10/07	1802:00	1808:40	773	114	16092		2	124, 15	
3653	280	81/10/07	1949:40	1950:00	35	76			2		
3654	280	81/10/07	1950:53	1951:15	70	85			2		
3655	280	81/10/07	2030:20	2036:25	645	118	33716		4	124, 16	
3656	280	81/10/07	2113:25	2113:50	90	82			2		
3657	280	81/10/07	2123:45	2124:00	35	59			2		
3658	280	81/10/07	2231:00	2232:00	206	344	10722		4	125, 1	
3659	280	81/10/07	2241:35	2301:35	6830	33669	1.05E+07		15	198, 4	M,ES,DG
3660	281	81/10/08	0130:00	0130:55	376	90	4742		2	125, 2	
3661	281	81/10/08	0139:40	0141:45	190	64			2		
3662	281	81/10/08	0448:05	0448:15	20	61			2		
3663	281	81/10/08	0457:55	0458:05	35	86			2		
3664	281	81/10/08	0636:25	0636:40	40	68			2		
3665	281	81/10/08	0644:40	0645:15	90	72			2		
3666	281	81/10/08	0806:40	0807:00	53	195	1819		3	125, 3	
3667	281	81/10/08	1136:35	1137:20	155	99			2		
3668	281	81/10/08	1141:05	1142:40	169	132	2979		2	125, 4	
3669	281	81/10/08	1223:05	1223:15	30	94			2		
3670	281	81/10/08	1304:25	1304:45	45	76			2		
3671	281	81/10/08	2020:55	2022:50	290	140	11230		5	125, 5	AX
3672	281	81/10/08	2242:50	2244:05	155	72			4		
3673	282	81/10/09	0006:50	0007:10	85	80			2		
3674	282	81/10/09	0431:10	0431:40	90	85			2		
3675	282	81/10/09	0758:40	0758:50	29	255	992		4	125, 6	

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3676	282	81/10/09	1301:50	1304:10	296	122	5604		2	125, 7	
3677	282	81/10/09	1531:45	1532:45	133	166	3195		3	125, 8	
3678	282	81/10/09	1912:05	1913:40	164	118	2944		2	125, 9	
3679	282	81/10/09	2009:25	2011:55	562	170	22719		6	125, 10	
3680	282	81/10/09	2154:20	2156:35	330	70			2	125, 11	
3681	282	81/10/09	2232:15	2233:40	215	75			5		
3682	283	81/10/10	0126:55	0127:25	73	133	1494		2	125, 12	
3683	283	81/10/10	0928:20	0928:40	40	84			2		
3684	283	81/10/10	0935:10	0935:45	316	768	13433		4	125, 13	M
3685	283	81/10/10	1247:30	1248:35	516	11434	3.10E+05		7	125, 15	M
3686	283	81/10/10	1422:55	1424:30	383	1180	31861		4	125, 16	M
3687	283	81/10/10	1517:55	1518:30	120	69			2		
3688	283	81/10/10	1521:35	1522:15	65	81			2		
3689	283	81/10/10	1600:40	1600:55	45	66			2		
3690	283	81/10/10	1700:50	1701:45	75	95			2		
3691	283	81/10/10	1704:20	1704:30	86	239	2346		2	126, 1	
3692	283	81/10/10	1721:30	1721:40	120	66			2		
3693	283	81/10/10	1737:25	1738:05	100	61			2		
3694	283	81/10/10	1958:45	2000:55	621	112	10672		5	126, 2	
3695	283	81/10/10	2042:40	2043:55	150	109	3422		2	126, 3	
3696	283	81/10/10	2142:50	2143:40	292	87	3821		2	126, 4	
3697	283	81/10/10	2310:40	2311:50	151	246	11171		5	126, 5	AX
3698	283	81/10/10	2341:20	2341:30	70	69			2		
3699	283	81/10/10	2348:30	2350:35	702	190	21826		2	126, 6	
3700	284	81/10/11	0043:15	0046:50	195	199	7712		7	126, 7	
3701	284	81/10/11	0053:40	0055:50	170	68			3		
3702	284	81/10/11	0434:20	0434:50	311	280	9766		2	126, 8	
3703	284	81/10/11	0549:40	0550:00	100	81			2		
3704	284	81/10/11	0731:10	0731:30	80	71			2		
3705	284	81/10/11	0747:00	0748:30	220	185	7668		2	126, 9	
3706	284	81/10/11	1240:25	1241:05	60	66			2		
3707	284	81/10/11	1248:00	1248:25	65	59			2		
3708	284	81/10/11	1401:35	1401:45	30	90			2		
3709	284	81/10/11	1511:10	1511:50	164	115	2162		2	126, 10	
3710	284	81/10/11	1552:30	1552:55	171	176	3937		2	126, 11	
3711	284	81/10/11	1813:55	1814:10	41	109	827		2	126, 12	
3712	284	81/10/11	1903:05	1903:15	30	67			2		
3713	284	81/10/11	1910:10	1910:30	45	55			2		
3714	284	81/10/11	2208:00	2215:10	597	174	15038		11	126, 13	
3715	284	81/10/11	2351:00	2353:05	123	568	27189		14	126, 14	EN
3716	285	81/10/12	0103:35	0104:20	180	102			2		
3717	285	81/10/12	0227:20	0229:00	648	810	66617		3	126, 15	
3718	285	81/10/12	0253:10	0253:45	60	69			2		
3719	285	81/10/12	0407:50	0408:30	176	206	4139		2	126, 16	
3720	285	81/10/12	0426:20	0435:50	1117	7360	2.10E+06		8	126, 16	M,EN
3721	285	81/10/12	0550:45	0550:55	57	214	2270		3	127, 1	
3722	285	81/10/12	0556:30	0557:00	145	64			2		
3723	285	81/10/12	0614:05	0619:15	388	105	7766		2	127, 2	EN
3724	285	81/10/12	0716:35	0729:45	2306	1572	3.44E+05		5	127, 13	M,SA,EN
3725	285	81/10/12	0912:55	0914:30	140	70			2		
3726	285	81/10/12	1034:30	1100:00	1896	12464	2.85E+06		5	127, 4	M,SA,EN
3727	285	81/10/12	1141:50	1143:25	110	67			2		
3728	285	81/10/12	1146:45	1147:00	51	123	1007		2	127, 5	M

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3729	285	81/10/12	1234:55	1235:30	96	119	1669		2	127, 6	
3730	285	81/10/12	1317:00	1321:20	348	180	4664		2	127, 7	
3731	285	81/10/12	1413:50	1414:55	180	54			2		
3732	285	81/10/12	1704:15	1704:30	90	98			2		
3733	285	81/10/12	1707:45	1709:45	240	652	21307		2	127, 8	M
3734	285	81/10/12	1713:40	1714:30	120	101			2		
3735	285	81/10/12	1718:10	1718:50	85	90			2		
3736	285	81/10/12	1803:10	1803:20	80	140	924		2	127, 9	M
3737	285	81/10/12	1804:55	1805:40	315	1766	39038		4	127, 9	M
3738	285	81/10/12	1811:25	1812:15	335	182	6992		2	127, 9	
3739	285	81/10/12	1827:20	1830:05	200	96			2		
3740	285	81/10/12	1836:55	1837:15	30	87			2		
3741	285	81/10/12	1847:55	1850:15	209	106	2049		2	127, 9	
3742	285	81/10/12	1859:35	1900:20	65	55			2		
3743	285	81/10/12	1936:25	1945:30	874	186	34344		5	127, 10	SN
3744	285	81/10/12	1955:55	1956:55	200	62	8649		2	127, 10	
3745	285	81/10/12	2003:25	2003:35	57	193	1649		2	127, 10	
3746	285	81/10/12	2006:00	2006:20	40	90			2		
3747	285	81/10/12	2025:55	2026:50	217	357	16147		4	127, 10	
3748	285	81/10/12	2113:50	2114:00	30	74			2		
3749	285	81/10/12	2115:15	2120:05	675	200	39584		5	127, 11	
3750	285	81/10/12	2153:05	2153:45	256	103			2	127, 11	
3751	285	81/10/12	2159:30	2203:30	339	63	1970		2	127, 11	
3752	285	81/10/12	2210:41	2212:35	149	218	3418		2	127, 11	
3753	285	81/10/12	2256:45	2257:40	70	73			2		
3754	285	81/10/12	2323:40	2323:55	45	56			2		
3755	285	81/10/12	2342:45	2344:26	120	61			2		
3756	286	81/10/13	0024:25	0024:35	125	90			2		
3757	286	81/10/13	0034:55	0035:15	60	81			4		
3758	286	81/10/13	0041:05	0041:45	95	208	4252		2	127, 12	
3759	286	81/10/13	0047:35	0050:35	244	405	5306		4	127, 12	
3760	286	81/10/13	0103:35	0103:50	60	82			2	127, 12	
3761	286	81/10/13	0108:00	0109:20	226	265	7716		2	127, 12	
3762	286	81/10/13	0250:10	0252:15	234	100	4172		2	127, 13	
3763	286	81/10/13	0404:41	0407:40	195	57			2		
3764	286	81/10/13	0412:25	0412:55	80	68			2		
3765	286	81/10/13	0417:40	0421:35	622	215	41629		2	127, 14	
3766	286	81/10/13	0535:55	0536:10	35	85			2		
3767	286	81/10/13	0709:30	0710:50	1808	1236	1.73E+05		7	127, 15	M
3768	286	81/10/13	0853:00	0853:25	130	70			2		
3769	286	81/10/13	1031:20	1032:00	105	67			2		
3770	286	81/10/13	1034:00	1034:15	30	80			2		
3771	286	81/10/13	1034:40	1035:30	145	60			2		
3772	286	81/10/13	1221:30	1222:20	180	74			2		
3773	286	81/10/13	1359:55	1400:30	70	388	4603		4	127, 16	M
3774	286	81/10/13	1628:10	1629:40	150	73			2		
3775	286	81/10/13	1807:35	1810:00	1539	2394	1.61E+05		7	128, 1	M
3776	286	81/10/13	1949:30	1953:20	636	108	9516		2	128, 2	
3777	286	81/10/13	2015:00	2015:15	39	106	698		2	128, 2	
3778	286	81/10/13	2106:10	2109:30	468	220	41715		5	128, 3	AX
3779	286	81/10/13	2114:00	2115:15	103	153	1839		2	128, 3	
3780	286	81/10/13	2124:00	2126:05	266	216	8912		2	128, 3	
3781	286	81/10/13	2157:40	2159:20	170	99			2		AX

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3782	287	81/10/14	0101:55	0102:10	70	71			2		
3805	287	81/10/14	0207:25	0209:00	130	57			2		
3783	287	81/10/14	0350:10	0351:30	344	382	16695		5	128, 4	M
3784	287	81/10/14	0404:35	0405:35	116	121	1825		2	128, 4	
3785	287	81/10/14	0534:15	0535:00	91	110	2065		2	128, 6	
3786	287	81/10/14	0551:55	0552:00	42	204	2460		4	128, 7	
3787	287	81/10/14	0725:40	0726:55	190	95			2		
3788	287	81/10/14	1040:45	1041:30	105	60			2		
3789	287	81/10/14	1304:10	1304:25	76	167	2883		2	128, 8	M
3790	287	81/10/14	1326:35	1327:05	145	67			2		
3791	287	81/10/14	1442:30	1442:55	315	616	35103		5	128, 9	M
3792	287	81/10/14	1504:50	1505:50	70	73			2		
3793	287	81/10/14	1642:30	1644:20	320	880	14530		5	128, 11	M
3794	287	81/10/14	1703:20	1706:30	232	44179	3.34E+06		15	128, 11	EN
3795	287	81/10/14	1743:05	1745:15	200	70			2		
3796	287	81/10/14	1753:00	1753:30	70	72			2		
3797	287	81/10/14	1806:35	1806:50	149	557	10046		5	128, 12	
3798	287	81/10/14	1918:20	1923:15	518	431	15344		3	128, 13	
3799	287	81/10/14	1955:30	1957:35	240	62	1837		2	128, 14	
3800	287	81/10/14	2053:10	2053:50	728	1669	41153		6	128, 15	
3801	287	81/10/14	2134:35	2137:20	611	92	7250		4	128, 15	
3802	287	81/10/14	2228:40	2229:20	50	73			2		
3803	287	81/10/14	2300:00	2302:00	180	69			2		
3804	287	81/10/14	2305:30	2306:35	115	60			2		
3806	288	81/10/15	0354:55	0355:40	94	314	3635		4	128, 16	
3807	288	81/10/15	0540:25	0541:15	65	86			2		
3808	288	81/10/15	0706:10	0706:55	66	168	884		2	129, 1	
3809	288	81/10/15	0715:05	0716:15	125	69			2		
3810	288	81/10/15	0722:50	0723:05	40	86			2		
3811	288	81/10/15	1010:10	1010:35	45	70			2		
3812	288	81/10/15	1113:40	1114:00	50	95			2		
3813	288	81/10/15	1148:20	1149:00	65	77			2		
3814	288	81/10/15	1202:30	1203:10	242	235	14435		2	129, 2	
3815	288	81/10/15	1247:55	1248:05	20	62			2		
3816	288	81/10/15	1255:05	1255:40	60	129	1431		2	129, 3	
3817	288	81/10/15	1335:50	1336:30	45	63			2		
3818	288	81/10/15	1557:40	1557:40	174	238	1998		3	129, 4	SN
3819	288	81/10/15	1604:20	1605:05	76	114	2019		2	129, 5	
3820	288	81/10/15	1626:50	1627:00	31	142	710		2	129, 6	
3821	288	81/10/15	1633:25	1633:50	65	98			2		
3822	288	81/10/15	2043:05	2049:10	547	202	26519		6	129, 7	
3823	288	81/10/15	2125:35	2127:20	197	73			4		
3824	288	81/10/15	2132:15	2132:40	64	142	1334		2	129, 8	
3825	288	81/10/15	2141:25	2142:15	82	165	1205		2	129, 8	
3826	288	81/10/15	2230:50	2231:10	165	453	10899		4	129, 9	M
3827	288	81/10/15	2302:25	2303:10	208	2799	69158		5	129, 11	
3828	289	81/10/16	0020:40	0021:10	125	105	2239		2	129, 12	
3829	289	81/10/16	0144:50	0145:25	65	100			5		
3830	289	81/10/16	0217:35	0218:40	185	79			2		
3831	289	81/10/16	0223:20	0223:30	20	65			2		
3832	289	81/10/16	0227:35	0229:00	100	74			2		
3833	289	81/10/16	0314:00	0315:40	319	207	13554		2	129, 13	SN
3834	289	81/10/16	0324:40	0324:55	35	72			2		

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3835	289	81/10/16	0333:30	0333:55	45	72			2		
3836	289	81/10/16	0349:45	0350:50	200	1096	32935		5	129, 14	M
3837	289	81/10/16	0353:10	0353:25	108	253	6828		5	129, 14	M
3838	289	81/10/16	0401:55	0402:30	91	519	6102		5	129, 14	
3839	289	81/10/16	0527:35	0528:35	110	228	3949		4	129, 15	
3840	289	81/10/16	0633:50	0636:05	678	1008	83065		4	129, 16	M
3841	289	81/10/16	0648:00	0649:45	173	103	3404		2	129, 16	
3842	289	81/10/16	0655:05	0655:35	57	145	971		2	129, 16	
3843	289	81/10/16	0811:30	0811:45	56	129	730		2	130, 1	
3844	289	81/10/16	0827:35	0829:35	449	162	15475		2	130, 1	
3845	289	81/10/16	0842:05	0843:40	128	227	3168		4	130, 1	M
3846	289	81/10/16	0845:25	0845:40	115	72			2		
3847	289	81/10/16	1001:55	1002:20	49	150	783		2	130, 2	
3848	289	81/10/16	1021:15	1023:20	150	81			2		
3849	289	81/10/16	1150:25	1152:50	459	182	64472		2	130, 3	
3850	289	81/10/16	1236:20	1246:00	579	195	9389		3	130, 4	M, ES
3851	289	81/10/16	1732:55	1733:10	175	84			2		
3852	289	81/10/16	1746:55	1748:35	185	56			2		
3853	289	81/10/16	2032:55	2037:25	383	156	5708		6	130, 5	
3854	289	81/10/16	2048:10	2051:45	383	103	6439		2	130, 5	
3855	289	81/10/16	2110:10	2110:40	45	64			2		
3856	289	81/10/16	2211:15	2211:45	60	62			2		
3857	289	81/10/16	2216:00	2216:30	85	61			2		
3858	289	81/10/16	2226:20	2232:40	615	96	9328		2	130, 6	
3859	289	81/10/16	2353:00	2353:20	42	310	1879		2	130, 7	
3860	289	81/10/16	2354:30	2355:50	176	209	6924		2	130, 7	
3861	290	81/10/17	0150:20	0150:45	73	223	2895		3	130, 8	
3862	290	81/10/17	0313:50	0314:05	64	1056	7133		4	130, 9	M
3863	290	81/10/17	0333:35	0334:15	104	118	5007		2		
3864	290	81/10/17	0501:50	0502:20	120	100			2		
3865	290	81/10/17	0517:05	0517:30	85	77			2		
3866	290	81/10/17	0518:45	0520:05	145	66			2		
3867	290	81/10/17	0955:55	0956:20	89	218	3142		2	130, 11	
3868	290	81/10/17	1127:40	1128:45	175	83			2		
3869	290	81/10/17	1140:55	1141:40	150	81			2		
3870	290	81/10/17	1443:20	1445:20	268	75			2	130, 12	
3872	290	81/10/17	1538:35	1539:00	30	314	2720		4	130, 13	
3871	290	81/10/17	1542:40	1543:20	95	84			2		
3873	290	81/10/17	1613:50	1614:45	250	191	9385		2	130, 14	
3874	290	81/10/17	1624:25	1625:05	85	74			2		
3875	290	81/10/17	1744:50	1748:20	572	147	18829		2	130, 15	
3876	290	81/10/17	1926:45	1927:50	125	91			2		
3877	290	81/10/17	2024:10	2024:45	95	70			2		
3878	290	81/10/17	2333:30	2334:25	115	62			2		
3879	290	81/10/17	2355:55	2356:25	137	104	2119		2	131, 1	
3880	291	81/10/18	0009:55	0010:10	82	539	5339		3	131, 2	
3881	291	81/10/18	0022:00	0023:10	140	78			2		
3882	291	81/10/18	0205:35	0206:20	137	209	2861		2	131, 3	
3883	291	81/10/18	0208:55	0209:10	40	60			2		
3884	291	81/10/18	0436:30	0437:05	75	73			2		
3885	291	81/10/18	0451:35	0451:55	65	60			2		
3886	291	81/10/18	0641:45	0642:10	45	77			2		
3887	291	81/10/18	1103:15	1122:55	2362	2021	9.82E+05		11	131, 4	M, SA, EN

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3889	291	81/10/18	1221:10	1222:20	85	98			2		
3890	291	81/10/18	1601:35	1604:05	321	360	11525		3	131, 5	
3891	291	81/10/18	1722:10	1722:45	40	65			2		
3892	291	81/10/18	1727:55	1729:20	248	180	4886		2	131, 6	
3893	291	81/10/18	2011:10	2014:40	375	92	10851		4	131, 6	
3894	291	81/10/18	2100:10	2100:42	100	62			2		
3895	291	81/10/18	2155:55	2155:57	18	70			2		
3896	292	81/10/19	0101:00	0101:40	35	95			2		
3897	292	81/10/19	0154:30	0154:50	140	97			2		
3898	292	81/10/19	0308:20	0313:00	1282	318	74639		4	131, 8	
3899	292	81/10/19	0941:05	0941:20	40	199	1363		5	131, 9	
3900	292	81/10/19	0942:35	0943:25	95	66			2		
3901	292	81/10/19	1207:35	1208:35	180	66			2		
3902	292	81/10/19	1224:45	1225:40	180	79			2		
3903	292	81/10/19	1241:25	1242:40	182	113	1243		2	131, 10	
3904	292	81/10/19	1245:50	1246:02	30	61			2		
3905	292	81/10/19	1556:25	1557:15	180	97			2		
3906	292	81/10/19	1600:35	1600:50	55	112	1010		2	131, 11	
3907	292	81/10/19	1852:10	1852:25	60	74			2		
3908	292	81/10/19	1918:00	1918:55	134	306	5864		4	131, 12	
3909	292	81/10/19	2018:55	2019:10	30	56			2		
3910	292	81/10/19	2034:35	2036:20	178	150	7997		2	131, 13	
3911	292	81/10/19	2324:20	2326:40	185	79			2		
3912	293	81/10/20	0122:15	0123:25	152	516	8613		5	131, 14	
3913	293	81/10/20	0148:35	0149:45	105	55			2		
3914	293	81/10/20	0307:20	0307:40	98	190	2559		2	131, 15	
3915	293	81/10/20	0315:45	0317:05	536	109	14290		2	131, 15	
3916	293	81/10/20	0438:00	0438:25	80	75			2		
3917	293	81/10/20	0553:05	0553:45	102	378	5776		4	131, 16	M
3918	293	81/10/20	0732:10	0734:30	172	233	2284		4	132, 1	
3919	293	81/10/20	0740:15	0740:40	45	75			2		
3920	293	81/10/20	0742:00	0742:10	55	92			2		
3921	293	81/10/20	0944:25	0944:50	48	129	1238		4	132, 2	
3922	293	81/10/20	1203:50	1204:25	65	65			2		
3923	293	81/10/20	1242:05	1242:35	135	146	3343		2	132, 3	
3924	293	81/10/20	1349:10	1350:10	126	147	1573		4	132, 4	
3925	293	81/10/20	1419:25	1421:25	832	147	31104		2	132, 5	
3926	293	81/10/20	1508:15	1510:30	470	90	5277		2	132, 6	
3927	293	81/10/20	1951:25	1951:30	126	230	9603		6	132, 7	SN, AX
3928	293	81/10/20	2025:05	2034:00	945	123	31067		5	132, 8	M
3929	293	81/10/20	2130:50	2131:30	65	89			2		
3930	293	81/10/20	2204:40	2217:55	945	108	16686		8	132, 9	AX
3931	293	81/10/20	2303:50	2304:25	75	55			2		
3932	293	81/10/20	2313:00	2314:25	170	56			2		
3933	293	81/10/20	2315:35	2321:05	179	173	7076		2	132, 10	
3934	293	81/10/20	2326:05	2326:30	95	73			2		
3935	294	81/10/21	0045:35	0046:20	90	92			2		
3936	294	81/10/21	0425:55	0427:15	150	70			2		
3937	294	81/10/21	0437:15	0437:50	170	64			2		
3938	294	81/10/21	0613:05	0618:10	809	248	38860		2	132, 11	EN
3939	294	81/10/21	0739:05	0739:40	1018	531	20225		5	132, 12	
3940	294	81/10/21	0800:10	0800:45	75	70			2		
3941	294	81/10/21	1320:40	1334:55	1141	83	3657		2	132, 13	

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3942	294	81/10/21	1721:00	1723:20	367	866	33624		5	132, 14	
3943	294	81/10/21	2305:25	2307:10	342	4748	2.61E+05		8	132, 15	M
3944	294	81/10/21	2312:25	2316:40	420	82	6074		2	132, 15	
3945	295	81/10/22	0049:25	0051:25	145	82			2		
3946	295	81/10/22	0109:10	0109:55	85	78			2		
3947	295	81/10/22	0530:45	0531:00	45	94			2		
3948	295	81/10/22	1217:05	1217:45	88	109	2045		2	133, 1	
3949	295	81/10/22	1222:10	1222:30	155	96			2		
3950	295	81/10/22	1452:10	1453:45	199	762	20180		4	133, 2	M
3951	295	81/10/22	1501:45	1502:50	160	66			2		
3952	295	81/10/22	2004:45	2005:50	170	63			3		
3953	295	81/10/22	2027:00	2027:20	42	129	3253		2	133, 4	
3954	295	81/10/22	2146:05	2148:40	190	65			4		
3955	295	81/10/22	2254:50	2255:20	60	82			2		
3956	296	81/10/23	0026:00	0029:55	335	223	7959		2	133, 5	
3957	296	81/10/23	0103:50	0104:30	70	88			2		
3958	296	81/10/23	0238:35	0239:50	207	202	11060		2	133, 6	
3959	296	81/10/23	1757:05	1759:35	298	126	4145		3	133, 7	
3960	296	81/10/23	2259:25	2300:00	60	60			2		
3961	297	81/10/24	0547:50	0548:20	60	71			2		
3962	297	81/10/24	1440:05	1440:15	40	67			2		
3963	297	81/10/24	1517:40	1518:10	103	378	6918		4	133, 8	
3964	297	81/10/24	1824:55	1825:20	45	83			2		
3965	297	81/10/24	2318:10	2318:25	38	117	939		2	133, 9	
3966	298	81/10/25	0048:35	0049:05	85	81			2		
3967	298	81/10/25	0135:10	0135:30	50	90			2		
3968	298	81/10/25	0315:15	0315:55	50	84			2		
3969	298	81/10/25	1448:25	1449:30	150	327	12543		2	133, 10	
3970	298	81/10/25	1804:05	1804:20	45	72			2		
3971	300	81/10/27	0945:40	0947:35	244	111	4621		2	133, 11	
3972	301	81/10/28	0648:35	0649:00	60	65			2		
3973	301	81/10/28	0954:30	0955:05	80	81			2		
3974	301	81/10/28	2051:15	2052:35	155	262	7567		2	133, 12	ES
3975	301	81/10/28	2338:50	2339:20	75	78			2		
3976	302	81/10/29	1126:15	1126:35	60	71			2		
3977	302	81/10/29	1705:50	1706:05	55	97			2		
3978	302	81/10/29	2004:30	2006:10	156	242	2526		2	133, 13	
3979	304	81/10/31	0540:10	0541:40	170	70			2		
3980	304	81/10/31	0717:50	0718:10	50	66			2		
3981	304	81/10/31	1818:05	1818:25	46	177	1348		3	133, 14	
3982	304	81/10/31	1838:25	1838:40	30	97			2		
3983	305	81/11/01	0610:15	0611:15	118	152	4912		2	133, 15	
3984	305	81/11/01	0916:35	0917:35	130	64			2		
3985	305	81/11/01	1449:00	1451:40	195	81			2		
3986	305	81/11/01	1629:15	1631:45	570	92	5463		5	133, 16	AX
3987	305	81/11/01	1642:55	1646:30	346	104	6052		2	133, 16	
3988	305	81/11/01	1810:10	1813:05	478	2732	78750		10	134, 1	M
3989	305	81/11/01	2105:15	2106:05	135	992	8078		5	134, 2	
3990	305	81/11/01	2108:15	2110:05	220	98	3241		2	134, 2	
3991	305	81/11/01	2254:45	2255:10	220	1137	18495		9	134, 3	M
3992	306	81/11/02	0031:55	0032:30	100	88			2		
3993	306	81/11/02	0045:15	0046:15	88	125	1061		2	134, 5	
3994	306	81/11/02	0151:02	0151:30	60	69			2		

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3995	306	81/11/02	0232:00	0232:55	120	62			2		
3996	306	81/11/02	0241:35	0242:05	71	167	621		3	134, 6	
3997	306	81/11/02	0350:00	0350:10	40	61			2		
3998	306	81/11/02	0536:00	0536:30	65	57			2		
3999	306	81/11/02	0722:25	0722:45	50	79			2		
4000	306	81/11/02	0816:40	0818:55	175	83			2		
4001	306	81/11/02	1213:10	1213:50	222	894	17304		5	134, 7	
4002	306	81/11/02	1500:40	1500:50	45	62			2		
4003	306	81/11/02	1747:30	1748:05	196	75			2		
4004	306	81/11/02	2125:25	2127:05	272	146	5421		2	134, 8	
4005	306	81/11/02	2251:05	2255:05	78	124	1730		2	134, 9	M
4006	306	81/11/02	2257:10	2257:45	55	115	590		2	134, 9	
4007	307	81/11/03	0408:55	0409:35	155	75			2		
4008	307	81/11/03	0531:55	0532:15	76	127	1254		2	134, 11	
4009	307	81/11/03	0626:35	0633:30	1530	370	1.48E+05		2	134, 12	M
4010	307	81/11/03	0833:25	0834:05	60	85			2		
4011	307	81/11/03	0944:50	0945:15	65	69			2		
4012	307	81/11/03	1343:20	1343:45	50	67			2		
4013	308	81/11/04	0151:05	0152:55	183	156	2102		2	134, 13	
4014	308	81/11/04	0636:40	0637:55	130	68			2		
4015	308	81/11/04	0804:05	0804:35	85	71			2		
4016	308	81/11/04	0822:35	0824:20	196	301	2857		5	134, 14	
4017	308	81/11/04	0953:10	0953:35	121	235	4233		4	134, 15	
4018	308	81/11/04	1103:25	1109:35	621	229	21419		2	134, 16	M
4019	308	81/11/04	1120:35	1121:10	60	59			2		
4020	308	81/11/04	2221:00	2221:55	110	77			2		
4021	308	81/11/04	2223:10	2223:20	60	75			2		
4022	309	81/11/05	0030:10	0031:05	154	202	4034		3	135, 1	
4023	309	81/11/05	0119:10	0119:30	65	70			2		
4024	309	81/11/05	0211:25	0212:00	339	1204	71088		9	135, 2	
4025	309	81/11/05	0831:40	0833:10	478	3779	2.66E+05		10	135, 3	M
4026	309	81/11/05	1237:10	1238:50	730	1013	1.24E+05		10	135, 4	EN
4027	309	81/11/05	1404:35	1406:25	302	194	12290		2	135, 5	M
4028	309	81/11/05	1730:45	1732:05	200	253	1708		4	135, 7	
4029	310	81/11/06	0000:05	0001:30	131	774	9355		5	135, 8	M
4030	310	81/11/06	1444:30	1444:40	35	83			2		
4031	310	81/11/06	1544:45	1545:55	140	78			2		
4032	310	81/11/06	2018:00	2020:30	180	85			2		
4033	311	81/11/07	0301:35	0302:30	134	346			4	135, 10	ND
4034	311	81/11/07	0311:20	0312:10	85	79			2		ND
4035	311	81/11/07	0317:20	0317:35	85	85			2		
4036	311	81/11/07	0718:45	0719:40	304	206	8711		2	135, 11	
4037	311	81/11/07	0810:30	0810:55	57	114	766		2	135, 12	
4038	312	81/11/08	0124:10	0124:25	37	184	675		2	135, 13	
4039	312	81/11/08	0315:55	0318:15	325	550	66405		3	135, 14	M
4040	312	81/11/08	0357:30	0358:10	160	1819	74482		5	135, 15	
4041	312	81/11/08	1055:45	1056:35	105	90			2		
4042	312	81/11/08	2347:00	2347:25	64	150	1410		2	135, 16	
4043	313	81/11/09	0054:00	0054:30	65	62			2		
4044	313	81/11/09	0443:50	0445:05	130	67			2		
4045	313	81/11/09	0541:30	0541:40	20	83			2		
4046	313	81/11/09	0613:25	0614:40	456	210	11269		3	136, 1	
4047	313	81/11/09	0928:45	0929:45	176	792	9957		5	136, 2	



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4048	313	81/11/09	1019:55	1020:10	20	57			2		
4049	313	81/11/09	1022:10	1022:55	105	77			2		
4050	313	81/11/09	1231:35	1239:00	624	585			4	136, 3	M
4051	313	81/11/09	1318:15	1318:30	1081	266	47364		7	136, 4	SN,ES
4052	314	81/11/10	0355:30	0357:05	145	61			2		
4053	314	81/11/10	0531:40	0531:55	145	68			2		
4054	314	81/11/10	0544:20	0546:30	680	3156	2.31E+05		7	136, 5	
4055	314	81/11/10	1458:50	1459:30	207	141	5251		2	136, 6	
4056	314	81/11/10	1621:30	1622:25	133	422	4786		3	136, 7	M
4057	314	81/11/10	1715:10	1716:20	140	91			2		
4058	315	81/11/11	0029:35	0030:00	276	174	5624		2	136, 9	M
4059	315	81/11/11	0334:00	0335:00	195	74			2		
4060	315	81/11/11	0343:25	0343:55	112	206	3696		4	136, 11	
4061	315	81/11/11	0659:40	0701:15	130	99			2		
4062	315	81/11/11	0718:25	0719:25	86	198	4184		4	136, 12	
4063	315	81/11/11	0733:15	0733:45	75	100			2		
4064	315	81/11/11	0849:10	0851:05	764	638	62744		5	136, 13	M
4065	315	81/11/11	1127:10	1128:30	138	539	8376		5	136, 14	M
4066	315	81/11/11	1216:10	1217:00	90	60			2		
4067	315	81/11/11	1259:50	1300:40	218	124	4500		2	136, 15	
4068	315	81/11/11	1448:25	1449:20	123	445	12017		5	136, 16	M,EN
4069	315	81/11/11	1949:15	1953:44	285	113	6158		3	137, 1	ES,AX
4070	315	81/11/11	2304:30	2311:10	623	78	7387		3	137, 2	AX
4071	316	81/11/12	0058:50	0059:15	75	83			2		
4072	316	81/11/12	0152:15	0153:05	166	300	13032		5	137, 3	
6269	316	81/11/12	0337:42	0338:18	557	1711	63740		7	195, 3	M,I
6293	316	81/11/12	0624:14	0627:44	709	170	27617		2	195, 11	I
4073	316	81/11/12	1111:00	1111:45	175	64			2		
4074	316	81/11/12	1203:00	1203:55	153	93			2		
4075	316	81/11/12	1917:00	1918:30	175	72			2		
4076	316	81/11/12	1921:05	1922:10	188	121	4129		3	137, 4	
4077	316	81/11/12	1931:05	1931:40	50	67			2		
4078	316	81/11/12	2102:35	2103:45	200	365	6542		4	137, 5	
4100	316	81/11/12	2355:00	2356:25	146	269	6760		3	137, 12	
4079	317	81/11/13	0014:40	0015:20	245	129	3786		3	137, 6	
4080	317	81/11/13	0026:05	0027:35	135	78			2		
4081	317	81/11/13	0031:50	0034:50	270	109	3199		2	137, 6	
4082	317	81/11/13	0049:25	0050:15	134	201	5660		4	137, 6	
4083	317	81/11/13	0137:40	0137:45	145	81			2		
4084	317	81/11/13	0142:05	0142:30	105	96			2		
4085	317	81/11/13	0144:15	0145:45	170	74			2		
4086	317	81/11/13	0154:00	0156:00	468	112	11189		2	137, 7	
4087	317	81/11/13	0322:05	0327:10	488	94	5533		2	137, 8	
4088	317	81/11/13	0332:15	0334:10	222	1494	28616		10	137, 8	
4089	317	81/11/13	0343:05	0343:25	58	218	2417		4	137, 8	
4090	317	81/11/13	0346:30	0347:25	392	74	3824		2	137, 8	
4091	317	81/11/13	0439:50	0440:25	155	79			2		
4092	317	81/11/13	0455:00	0455:15	175	78			2		
4093	317	81/11/13	0507:10	0507:30	40	96			2		
4094	317	81/11/13	0509:00	0509:10	45	76			2		
4095	317	81/11/13	0805:55	0807:25	649	274	32295		5	137, 9	
4096	317	81/11/13	1102:10	1103:15	442	5042	2.84E+05		7	137, 10	M
4097	317	81/11/13	1150:00	1150:24	45	100			2		

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4098	317	81/11/13	1921:10	1921:55	435	173	7317		2	137, 11	
4099	317	81/11/13	2342:15	2344:00	281	437	10512		5	137, 12	M
4101	318	81/11/14	0627:40	0628:00	40	73			2		
4102	318	81/11/14	0752:40	0802:10	803	185			10	137, 14	ND
4103	318	81/11/14	0820:35	0821:05	51	278	2201		4	137, 15	
4104	318	81/11/14	2154:45	2202:10	3381	1012	3.96E+05		9	137, 16	M
4105	318	81/11/14	2331:25	2331:55	55	95			2		
4106	319	81/11/15	0004:45	0005:15	60	97			2		
4107	319	81/11/15	0134:40	0135:15	81	493	9259		4	138, 1	M
4108	319	81/11/15	0303:15	0303:35	56	133	1253		2	138, 3	
4109	319	81/11/15	0307:40	0308:35	279	130	4026		2	138, 3	
4110	319	81/11/15	0426:45	0427:20	75	187	3184		3	138, 4	
4111	319	81/11/15	1527:15	1527:55	112	117	1737		2	138, 5	
4112	319	81/11/15	2348:30	2349:10	120	67			2		
4113	320	81/11/16	1247:20	1250:15	515	176	17409		2	138, 6	
4114	321	81/11/17	0426:40	0427:00	79	292	2936		3	138, 7	M
4115	321	81/11/17	0732:50	0733:30	85	73			2		
4116	321	81/11/17	1155:35	1155:35	88	200	3172		4	138, 9	ES
4117	321	81/11/17	2150:25	2151:30	110	83			2		
4118	321	81/11/17	2302:20	2302:40	100	68			2		
4119	322	81/11/18	0109:40	0111:15	140	88			2		
4120	322	81/11/18	0119:25	0123:05	502	162	13181		2	138, 10	
4121	322	81/11/18	0304:00	0305:00	110	57			2		
4122	322	81/11/18	0411:55	0414:30	477	1498	1.12E+05		5	138, 11	M
4123	322	81/11/18	0602:15	0603:00	123	113	1125		4	138, 13	
4124	322	81/11/18	0906:35	0908:10	173	142	3544		2	138, 14	
4125	322	81/11/18	1411:45	1411:45	80	66			2		
4126	323	81/11/19	0222:35	0228:15	1597	252	45187		3	138, 15	
4127	323	81/11/19	1048:15	1048:55	114	152	2035		2	138, 16	
4128	324	81/11/20	0025:55	0027:50	205	70			2		
4129	324	81/11/20	0458:45	0510:05	957	290	56075		13	139, 1	
4130	324	81/11/20	1802:10	1802:20	60	81			2		
4131	325	81/11/21	1553:20	1556:20	305	213	883		2	139, 2	
4132	325	81/11/21	2244:50	2248:05	155	85			2		
4133	326	81/11/22	0322:00	0322:40	615	3700	87699		8	139, 3	M
4134	326	81/11/22	0449:35	0449:40	115	101			2		SA
4135	326	81/11/22	0655:35	0656:55	711	1899	2.20E+05		7	139, 5	M
4731	326	81/11/22	1742:15	1743:45	98	101	471		2	155, 2	SA, I
4136	326	81/11/22	2042:05	2042:40	50	64			2		
4137	326	81/11/22	2223:15	2223:40	50	81			2		
4138	326	81/11/22	2242:15	2242:35	70	64			2		
4139	327	81/11/23	0444:20	0444:50	90	67			2		
4140	327	81/11/23	0948:45	0949:05	100	77			2		
4141	327	81/11/23	1308:30	1309:15	140	84			2		
4142	327	81/11/23	1530:05	1530:35	90	68			2		
4143	328	81/11/24	0111:15	0114:05	450	78	4492		4	139, 6	
4144	328	81/11/24	0136:15	0136:40	70	72			2		
4145	328	81/11/24	1429:10	1429:55	103	105	1137		2	139, 7	
4146	328	81/11/24	1431:20	1431:50	69	141	1548		2	139, 7	
4147	329	81/11/25	0302:40	0303:55	156	120	2071		2	139, 8	
4148	329	81/11/25	0412:15	0412:15	194	163	4767		9	139, 9	SA, AX
4149	329	81/11/25	0742:10	0745:30	615	115	8409		2	139, 10	
4150	329	81/11/25	1252:10	1253:15	104	179	5588		2	139, 11	M

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4151	329	81/11/25	1815:25	1817:00	330	633	43279		4	139, 12	M
4152	329	81/11/25	2045:10	2045:15	25	66			2		
4153	329	81/11/25	2317:25	2319:30	535	132	8651		2	139, 14	
4154	330	81/11/26	0212:50	0216:35	434	187	21369		11	139, 15	SA
4155	330	81/11/26	1938:10	1943:05	875	96	7965		2	139, 16	
4156	330	81/11/26	2324:40	2325:30	107	193	4177		2	140, 1	
4157	331	81/11/27	2111:00	2112:40	273	103	6249		4	140, 2	
4158	332	81/11/28	0729:15	0731:50	290	220			2	140, 3	ND
4159	333	81/11/29	0204:40	0206:45	459	75	4198		2	140, 4	
4160	333	81/11/29	0659:05	0659:30	75	72			2		
4161	333	81/11/29	1553:40	1626:00	3256	95	49447		2	140, 5	
4162	333	81/11/29	1813:00	1814:05	92	223	2300		2	140, 6	
4163	333	81/11/29	1927:45	1929:20	291	999	13442		5	140, 7	
4164	334	81/11/30	0823:35	0824:00	70	94			2		
4165	334	81/11/30	1136:35	1141:05	500	167	8950		2	140, 8	
4166	334	81/11/30	1456:35	1457:10	184	1544	21682		4	140, 9	
4167	335	81/12/01	0314:20	0314:40	105	69			2		
4168	335	81/12/01	0826:55	0827:40	80	82			2		
4169	335	81/12/01	1250:25	1251:00	65	72			2		
4170	335	81/12/01	1416:35	1417:20	100	68			2		
4171	335	81/12/01	1705:40	1708:55	527	609	37777		7	140, 10	M,SN
4172	335	81/12/01	1858:20	1858:55	145	90			2		
4173	336	81/12/02	0310:20	0310:45	125	88			2		
4174	336	81/12/02	1357:05	1357:50	80	72			2		
4175	336	81/12/02	1852:55	1855:10	205	70			2		
4176	336	81/12/02	2030:40	2031:30	140	147	5106		2	140, 12	
4177	337	81/12/03	1737:00	1737:25	72	110	960		2	140, 13	
4178	337	81/12/03	1900:50	1901:00	20	91			2		
4179	337	81/12/03	2007:10	2007:55	80	68			2		
4180	337	81/12/03	2046:30	2047:15	120	70			2		
4181	337	81/12/03	2207:05	2207:35	80	64			2		
4182	338	81/12/04	0857:50	0858:10	60	76			2		
4183	338	81/12/04	1500:50	1501:30	75	59			2		
4184	338	81/12/04	1726:15	1727:55	224	515	1.10E+05		3	140, 14	ND
4185	338	81/12/04	2102:00	2105:20	311	117	8862		4	140, 15	
4186	339	81/12/05	0247:50	0248:40	75	78			2		
4187	339	81/12/05	1034:00	1034:45	95	65			2		
4188	340	81/12/06	1956:00	1957:30	191	84			2		
4189	340	81/12/06	2253:40	2254:10	51	110	464		2	140, 16	
4190	341	81/12/07	0044:35	0045:00	165	85			2		
4191	341	81/12/07	0057:30	0058:25	214	279	5752		4	141, 1	
4192	341	81/12/07	0334:30	0335:20	291	398	14691		4	141, 2	
4193	341	81/12/07	0654:05	0654:25	47	162	1098		2	141, 3	
4194	341	81/12/07	1331:05	1334:03	650	200	16748		2	141, 4	
4195	341	81/12/07	1442:15	1451:05	750	3311	74095		15	141, 5	
4196	342	81/12/08	0006:45	0007:10	60	69			2		
4197	342	81/12/08	0033:15	0034:20	198	290	9866		2	141, 6	
4198	342	81/12/08	0139:55	0143:25	481	322	16830		4	141, 7	
4199	342	81/12/08	0311:40	0312:20	75	80			2		
4200	342	81/12/08	0334:45	0336:00	120	90			2		
4201	342	81/12/08	0645:00	0645:35	70	83			2		
4202	342	81/12/08	1236:00	1236:50	119	796	17362		5	141, 8	
4203	342	81/12/08	1420:45	1422:00	120	81			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
4204	342	81/12/08	1633:10	1634:20	110	99			2		
4205	342	81/12/08	1753:15	1800:15	683	134	16064		2	141, 9	
4206	342	81/12/08	1825:00	1826:40	160	67			2		
4207	343	81/12/09	0132:00	0133:55	214	101	3487		2	141, 10	
4208	343	81/12/09	0339:15	0343:30	1196	3156	4.30E+05		4	141, 11	EN
4209	343	81/12/09	0504:15	0505:30	155	92			2		
4210	343	81/12/09	0509:35	0512:00	218	118	3669		2	141, 12	
4211	343	81/12/09	0636:40	0645:10	1522	825	1.30E+05		2	141, 13	M
4212	343	81/12/09	1500:30	1503:10	197	75			2		
4213	343	81/12/09	1625:20	1625:40	49	207	1291		4	141, 14	
4214	343	81/12/09	1853:50	1905:30	2765	818	4.91E+05		10	141, 15	M,ES
4215	343	81/12/09	2021:00	2022:30	1452	129	26578		2	141, 16	SN
4216	343	81/12/09	2212:05	2212:20	87	458	4528		4	142, 1	M
4217	343	81/12/09	2217:20	2217:35	106	153	1204		2	142, 1	
4218	344	81/12/10	0154:55	0155:10	110	76			2		
4219	344	81/12/10	1234:40	1234:55	40	77			2		
4220	344	81/12/10	1236:25	1237:00	60	95			2		
4221	344	81/12/10	1249:15	1249:25	35	98			2		
4222	344	81/12/10	1250:45	1251:00	40	90			2		
4223	344	81/12/10	1530:25	1531:20	175	336	11323		4	142, 3	
4224	344	81/12/10	1538:15	1538:30	60	74			2		
4225	344	81/12/10	1706:10	1706:30	75	82			2		
4226	344	81/12/10	1710:15	1710:35	110	72			2		
4227	344	81/12/10	2147:05	2148:40	348	285	12878		2	142, 4	M
4228	345	81/12/11	0303:30	0304:15	96	598	7803		5	142, 6	M
4229	345	81/12/11	0311:55	0312:40	110	94			2		
4230	345	81/12/11	0439:05	0440:00	238	411	12695		3	142, 8	
4231	345	81/12/11	0728:15	0728:55	140	75			2		
4232	345	81/12/11	0741:40	0743:10	322	123	4155		2	142, 9	
4233	345	81/12/11	2014:50	2015:40	150	212	4426		2	142, 10	
4234	345	81/12/11	2151:20	2151:50	140	67			2		
4235	345	81/12/11	2325:15	2326:45	180	74			2		
4236	346	81/12/12	0318:45	0322:35	487	946	51799		4	142, 11	EN
4237	346	81/12/12	0422:35	0423:00	180	183	4583		2	142, 12	
4238	346	81/12/12	0740:55	0742:10	120	70			2		
4239	346	81/12/12	1245:15	1245:25	48	262	1437		3	142, 13	
4240	346	81/12/12	1651:30	1652:00	637	134	13353		2	142, 14	SG
4241	347	81/12/13	1054:20	1057:15	505	375	20414		2	142, 15	
4242	347	81/12/13	1339:30	1340:05	45	74			2		
4243	347	81/12/13	2125:15	2127:30	622	582	86167		4	142, 16	M
4244	348	81/12/14	0828:10	0829:00	70	79			2		
4245	348	81/12/14	1202:55	1205:20	170	80			2		
4246	348	81/12/14	1759:40	1800:55	130	72			2		
4247	348	81/12/14	1802:25	1803:05	110	95			2		
4248	348	81/12/14	1952:15	1952:40	80	73			2		
4249	348	81/12/14	2142:30	2142:45	39	110	841		2	143, 1	
4250	349	81/12/15	0045:55	0047:15	246	105	3493		2	143, 2	
4251	349	81/12/15	0328:30	0328:40	25	69			2		
4252	349	81/12/15	0817:30	0817:55	115	96			2		
4253	349	81/12/15	1133:45	1135:50	281	119	5120		2	143, 3	
4254	349	81/12/15	1625:35	1626:25	198	65			2		
4255	349	81/12/15	1944:30	1946:30	765	1193	1.42E+05		5	143, 4	M,EN
4256	350	81/12/16	1250:55	1251:50	160	71			3		

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4257	350	81/12/16	1429:50	1429:55	170	88			2		
4258	350	81/12/16	1618:20	1619:30	269	179	18157		2	143, 5	EG
4259	354	81/12/20	1429:05	1430:30	185	68			2		
4260	355	81/12/21	1236:00	1237:00	185	68			2		
4292	362	81/12/28	1826:25	1827:50	155	92			2		
4293	364	81/12/30	0823:40	0824:15	70	61			2		
4294	365	81/12/31	1755:35	1755:45	21	160	678		3	144, 4	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
4295	1	82/01/01	0055:00	0057:05	199	2404	1.71E+05		9	144, 5	
4296	2	82/01/02	2254:35	2255:15	70	61			2		
4297	3	82/01/03	0639:45	0643:10	363	85	5254		2	144, 6	
4298	7	82/01/07	0232:25	0232:45	190	72			2		
4308	7	82/01/07	1211:30	1217:45	590	88	6065		2	144, 10	
4309	7	82/01/07	1937:40	1938:55	263	421	19215		4	144, 11	
4310	8	82/01/08	0020:05	0021:20	130	64			3		
4311	8	82/01/08	0024:40	0025:15	125	56			2		
4312	8	82/01/08	0156:45	0157:35	155	97			5		
4313	8	82/01/08	0201:20	0202:40	384	2309	54235		7	144, 12	
4314	8	82/01/08	0322:10	0327:45	627	81	6320		5	144, 13	AX
4315	8	82/01/08	1301:00	1301:20	65	97			2		
4316	8	82/01/08	2057:00	2058:25	175	82			4		
4317	9	82/01/09	0224:40	0225:20	95	57			2		
4318	9	82/01/09	0529:40	0531:55	190	63			2		
4319	9	82/01/09	0700:15	0700:35	93	125	2124		2	144, 14	
4320	9	82/01/09	1949:00	1949:25	64	136	1658		2	144, 15	
4321	9	82/01/09	2039:45	2040:30	110	129	3435		5	144, 16	
4322	9	82/01/09	2219:20	2221:05	175	82			3		
4323	10	82/01/10	0831:00	0831:15	95	73			2		
4324	10	82/01/10	1450:30	1450:40	35	68			2		
4325	10	82/01/10	2028:20	2040:15	1022	209	24177		5	145, 1	
4326	10	82/01/10	2356:05	2356:30	50	78			2		
4327	11	82/01/11	0004:20	0004:45	185	192	5152		2	145, 2	
4328	11	82/01/11	0207:10	0208:20	90	63			4		EN
4329	11	82/01/11	0303:25	0303:45	60	56			2		
4330	11	82/01/11	0305:30	0305:45	35	73			2		
4331	11	82/01/11	0316:05	0316:30	135	64			2		
4333	11	82/01/11	0639:35	0639:40	337	108	6860		2	145, 3	
4334	12	82/01/12	0153:50	0155:45	197	69			4		AX
4336	12	82/01/12	2138:25	2145:30	579	135	21350		7	145, 5	AX
4337	12	82/01/12	2219:25	2219:50	30	84			2		
4338	12	82/01/12	2220:25	2223:05	375	84	4519		5	145, 6	AX
4339	13	82/01/13	2121:00	2125:20	762	201	53212		7	145, 7	
4340	13	82/01/13	2208:05	2209:45	195	71			5		
4341	14	82/01/14	2154:30	2155:20	125	69			3		AX
4342	14	82/01/14	2332:20	2333:25	145	61			3		AX
4343	15	82/01/15	0026:20	0029:05	309	87	3527		4	145, 8	AX
4344	15	82/01/15	0112:10	0113:45	145	69			5		AX
4345	15	82/01/15	1211:35	1211:55	30	60			2		
4346	15	82/01/15	1214:55	1215:00	20	57			2		
4347	15	82/01/15	2056:50	2059:00	543	153	18695		5	145, 9	AX
4348	16	82/01/16	2123:25	2124:15	80	65			2		
4349	17	82/01/17	2028:55	2032:10	652	114	14648		5	145, 10	AX
4350	17	82/01/17	2203:15	2204:25	165	71			2		AX
4351	17	82/01/17	2253:20	2255:05	185	72			2		AX
4352	17	82/01/17	2341:55	2343:35	384	146	11663		7	145, 11	AX
4353	18	82/01/18	1432:50	1434:45	319	99	4760		2	145, 12	
4354	18	82/01/18	2238:35	2239:10	170	85			4		AX
4355	19	82/01/19	0927:50	0929:20	168	119	2080		2	145, 13	
4356	19	82/01/19	1405:10	1406:05	120	62			2		

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4357	19	82/01/19	1410:45	1411:15	108	128	835		2	145, 14	
4358	19	82/01/19	1420:35	1421:50	120	69			2		
4359	19	82/01/19	1524:55	1525:55	197	1335			3		
4360	19	82/01/19	1829:35	1830:15	95	65			2		
4361	19	82/01/19	2004:40	2006:50	180	57			2		
4362	19	82/01/19	2034:10	2035:30	170	79			2		
4363	19	82/01/19	2154:40	2155:35	252	84	3966		2	145, 15	
4365	20	82/01/20	1049:10	1050:05	187	75			2		
4366	20	82/01/20	2210:00	2212:55	541	71	12874		4	146, 1	
4367	21	82/01/21	0548:50	0549:10	60	105	578		2	146, 2	
4368	22	82/01/22	1457:35	1457:55	135	80			2		
4369	22	82/01/22	1710:30	1711:25	130	93			2		
4370	23	82/01/23	2305:40	2306:10	75	58			2		
4371	24	82/01/24	0152:35	0155:35	696	935	1.37E+05		4	146, 3	
4372	24	82/01/24	1015:30	1015:55	60	83			2		
4373	24	82/01/24	1449:40	1450:30	110	84			2		
4374	24	82/01/24	1453:20	1453:40	55	59			2		
4375	24	82/01/24	1454:40	1456:15	145	66			2		
4376	24	82/01/24	1936:20	1944:45	1188	984	3.31E+05		5	146, 4	M
4378	25	82/01/25	1553:15	1554:00	165	57			2		
4379	25	82/01/25	1756:30	1756:32	40	75			2		
4380	25	82/01/25	1918:35	1919:35	160	99			2		
4381	26	82/01/26	0210:45	0212:20	160	69			2		
4382	26	82/01/26	0323:40	0323:55	71	60			2		
4383	26	82/01/26	0343:05	0343:15	45	104	217		5	146, 5	
4384	26	82/01/26	0428:15	0428:25	40	96			2		
4385	26	82/01/26	0615:40	0615:55	44	119	692		4	146, 6	
4392	26	82/01/26	1731:30	1732:10	80	96			2		
4393	26	82/01/26	2045:20	2045:30	25	80			2		
4394	26	82/01/26	2344:20	2344:35	85	66			2		
4854	27	82/01/27	0328:55	0329:10	35	65			2		
4395	27	82/01/27	0611:25	0611:40	30	80			2		
4396	27	82/01/27	0639:20	0640:25	110	61			2		
4398	27	82/01/27	1410:20	1411:25	195	121	3669		2	146, 8	
4399	27	82/01/27	1743:30	1743:55	114	136	1448		2	146, 9	
4400	27	82/01/27	1830:50	1831:05	40	51			2		
4401	27	82/01/27	2206:30	2207:15	160	81			2		
4402	27	82/01/27	2209:25	2209:55	175	83			2		
4409	28	82/01/28	0325:55	0326:40	135	79			2		
4405	28	82/01/28	0548:00	0548:30	60	64			2		
4403	28	82/01/28	0713:20	0722:00	1498	9763	1.02E+04		15	146, 10	M, SA
4404	28	82/01/28	0748:25	0749:05	160	82			2		
4406	28	82/01/28	0938:05	0939:05	246	134	5448		2	146, 11	
4407	28	82/01/28	1052:45	1052:55	75	53			2		
4408	28	82/01/28	1112:40	1113:45	161	164	4478		2	146, 12	
4410	28	82/01/28	1850:50	1851:25	55	83			2		
4411	29	82/01/29	0220:55	0222:50	218	126	4786		2	146, 13	
4412	29	82/01/29	0228:10	0228:30	25	67			2		
4413	29	82/01/29	0234:15	0235:35	743	142	11550		2	146, 13	
4414	29	82/01/29	0312:40	0313:50	127	228	3760		3	146, 14	M
4415	29	82/01/29	0354:25	0355:25	127	76			2		
4416	29	82/01/29	0357:40	0358:15	55	76			2		
4420	29	82/01/29	0357:50	0358:10	40	70			2		

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4417	29	82/01/29	0427:10	0427:25	30	80			2		
4421	29	82/01/29	1025:05	1026:05	300	75	5167		2	147, 1	
4422	29	82/01/29	1040:10	1048:20	660	153	2834		2	147, 1	
4423	29	82/01/29	1543:35	1544:35	621	94	11782		3	147, 2	
4424	29	82/01/29	2124:45	2125:15	115	93			2		
4425	30	82/01/30	0247:10	0248:50	200	75			2		DG
4426	30	82/01/30	0853:50	0854:00	25	75			2		SG
4427	30	82/01/30	0959:25	0959:40	20	54			2		
4428	30	82/01/30	1001:45	1002:20	65	59			2		
4429	30	82/01/30	1036:45	1037:20	60	66			2		
4430	30	82/01/30	1204:50	1214:35	1784	1006	1.21E+05		7	147, 3	
4431	30	82/01/30	1354:40	1354:50	30	64			2		
4432	30	82/01/30	2125:00	2126:10	190	57			2		
4433	31	82/01/31	0014:20	0014:55	902	108	11986		4	147, 4	SN
4434	31	82/01/31	0706:00	0706:25	73	375	5351		3	147, 5	
4435	31	82/01/31	1123:30	1124:05	75	54			2		
4436	31	82/01/31	1315:35	1330:35	2232	1819	3.26E+05		10	147, 6	
4437	31	82/01/31	1441:35	1444:05	462	74	4648		4	147, 7	
4438	31	82/01/31	1745:45	1747:35	193	96			2		
4439	32	82/02/01	0030:35	0032:10	772	1428	68753		7	147, 8	M
4440	32	82/02/01	0338:20	0339:10	130	99			2		
4441	32	82/02/01	0458:00	0458:30	150	61			2		
4442	32	82/02/01	0519:15	0519:20	337	158	5060		4	147, 9	
4443	32	82/02/01	0717:45	0718:05	55	63			2		
4444	32	82/02/01	0833:00	0834:00	150	834			2		
4445	32	82/02/01	1249:40	1250:20	45	58			2		
4446	32	82/02/01	1251:30	1252:40	180	89			4		
4447	32	82/02/01	1418:45	1419:10	1462	419	64212		5	147, 10	SN
4448	32	82/02/01	1451:20	1451:40	65	73			2	147, 10	
4449	32	82/02/01	1904:35	1914:15	1506	92	19720		4	147, 11	
4450	32	82/02/01	1935:15	1936:05	285	140	4800		2	147, 11	
4451	32	82/02/01	2058:05	2059:30	199	96			2		
4452	32	82/02/01	2246:05	2248:00	200	70			2		
4473	33	82/02/02	0012:00	0012:55	120	92			2		
4453	33	82/02/02	0027:25	0028:40	155	76			2		
4454	33	82/02/02	0326:15	0327:15	65	67			2		
4455	33	82/02/02	0929:35	0930:20	160	61			2		
4456	33	82/02/02	1015:10	1015:45	170	63			2		
4457	33	82/02/02	1147:05	1149:10	185	58			2		
4458	33	82/02/02	1150:10	1151:55	140	72			2		
4459	33	82/02/02	1233:15	1234:00	95	55			2		
4460	33	82/02/02	1236:00	1237:40	190	64			2		
4461	33	82/02/02	1249:55	1250:50	125	68			2		
4462	33	82/02/02	1406:20	1414:45	3335	175			15	147, 12	SN,ND
4463	33	82/02/02	1502:25	1505:10	320	175			5	147, 12	EN,AX,ND
4464	33	82/02/02	1547:40	1548:00	792	540	31833		5	147, 13	M
4465	33	82/02/02	1639:45	1642:25	304	183	11352		5	147, 14	M,SA
4466	33	82/02/02	1851:55	1852:15	725	365	24868		3	147, 15	SN
4467	33	82/02/02	1920:10	1920:30	45	54			2		
4468	33	82/02/02	2027:10	2028:45	197	74			2		
4469	33	82/02/02	2041:10	2041:45	213	100	4300		2	147, 16	
4470	33	82/02/02	2219:05	2219:55	173	176	3794		2	148, 1	
4471	33	82/02/02	2350:15	2351:30	145	83			2		



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4472	33	82/02/02	2353:05	2354:50	195	74			2		
4474	34	82/02/03	0112:26	0114:45	2236	4864	1.86E+06		15	148, 2	M, SN
4475	34	82/02/03	0314:25	0315:30	512	1756	1.17E+05		5	148, 3	
4476	34	82/02/03	0426:00	0427:10	150	84			2		SG, EG
4477	34	82/02/03	0621:25	0622:05	75	61			2		
4478	34	82/02/03	0626:30	0631:20	444	108	6093		2	148, 4	
4479	34	82/02/03	0814:00	0816:15	1179	105	6805		2	148, 5	
4480	34	82/02/03	0908:20	0910:00	402	174	16705		2	148, 6	SN
4481	34	82/02/03	0929:35	0934:25	529	212	13962		3	148, 6	M
4482	34	82/02/03	1006:05	1006:35	100	73			2		
4483	34	82/02/03	1046:50	1047:10	180	68			2		
4484	34	82/02/03	1315:30	1318:10	201	784	28791		3	148, 8	
4485	34	82/02/03	1418:25	1418:45	195	73			2		
4486	34	82/02/03	1422:45	1424:35	150	55			2		
4487	34	82/02/03	1425:25	1426:15	120	55			2		
4488	34	82/02/03	1704:00	1704:25	186	90			2		SN
4489	34	82/02/03	1851:50	1852:00	48	489	3690		3	148, 9	M
4490	34	82/02/03	2020:55	2023:10	791	1610	3.11E+05		6	148, 11	M
4491	34	82/02/03	2041:35	2042:20	509	494	30614		5	148, 11	
4492	34	82/02/03	2326:20	2327:40	197	73			2		
4493	35	82/02/04	0108:45	0109:45	80	76			2		
4494	35	82/02/04	0602:55	0610:05	652	70	13687		2	148, 12	
4495	35	82/02/04	0634:10	0636:40	160	63			2		
4496	35	82/02/04	0740:00	0740:40	60	53			2		
4497	35	82/02/04	0753:40	0754:40	155	68			2		
4498	35	82/02/04	0757:25	0757:55	40	52			2		
4499	35	82/02/04	0759:50	0800:30	191	72			2		
4500	35	82/02/04	0924:00	0924:45	60	66			2		
4501	35	82/02/04	0932:40	0933:00	113	173	2167		2	148, 13	
4502	35	82/02/04	1030:40	1031:00	52	117	770		4	148, 14	
4503	35	82/02/04	1236:15	1237:30	105	93			2		
4504	35	82/02/04	1254:35	1255:25	185	71			2		
4505	35	82/02/04	1300:00	1300:35	70	90			2		
4506	35	82/02/04	1341:05	1341:20	640	223	22510		2	148, 15	SN, DG
4507	35	82/02/04	1355:45	1356:40	80	57			2		
4508	35	82/02/04	1359:55	1402:35	198	56			2		
4509	35	82/02/04	1408:35	1408:55	65	58			2		
4510	35	82/02/04	1410:55	1411:45	85	81			2		
4511	35	82/02/04	1523:30	1524:25	170	62			2		
4512	35	82/02/04	1538:55	1541:45	309	806	41151		9	149, 1	EM, ES
4513	35	82/02/04	1655:30	1656:20	75	88			2		
4514	35	82/02/04	1658:40	1659:30	76	104	670		2	149, 2	
4515	35	82/02/04	1715:25	1716:20	96	122	2530		2	149, 3	M
4516	35	82/02/04	1717:20	1718:55	171	135	3595		2	149, 3	M
4517	35	82/02/04	1845:35	1846:15	75	66			2		
4518	35	82/02/04	1848:15	1848:40	60	56			2		
4519	35	82/02/04	1850:40	1852:40	170	72			2		
4520	35	82/02/04	1856:05	1857:20	204	546	44718		5	149, 4	ES
4521	35	82/02/04	2143:00	2143:10	40	120	602		2	149, 5	
4522	35	82/02/04	2330:05	2330:40	160	64			2		
4523	35	82/02/04	2337:25	2338:15	205	73			2		
4524	36	82/02/05	0109:35	0110:30	68	1617	10193		6	149, 6	
4527	36	82/02/05	0128:00	0129:05	180	151	5182		2	149, 8	

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4525	36	82/02/05	0248:05	0248:35	55	71			4		
4526	36	82/02/05	0306:50	0315:00	924	230	14975		2	149, 7	
4528	36	82/02/05	0415:35	0415:55	45	77			2		
4529	36	82/02/05	0558:30	0559:05	110	55			2		
4530	36	82/02/05	0608:15	0608:35	185	171	2291		2	149, 9	
4531	36	82/02/05	0731:30	0733:20	195	139	3011		2	149, 10	
4532	36	82/02/05	0751:10	0751:45	80	87			2		
4533	36	82/02/05	0753:05	0758:35	650	90	6688		2	149, 10	
4534	36	82/02/05	0903:45	0906:05	1479	7230	6.74E+05		14	149, 11	M
4535	36	82/02/05	1045:35	1046:35	164	125	2625		3	149, 12	
4536	36	82/02/05	1052:05	1053:35	130	76			2		
4537	36	82/02/05	1056:40	1057:45	160	57			2		
4538	36	82/02/05	1153:00	1154:05	339	218	8059		2	149, 13	
4539	36	82/02/05	1331:25	1331:40	30	54			2		
4540	36	82/02/05	1334:35	1335:05	100	64			2		
4541	36	82/02/05	1338:00	1339:40	170	86			2		
4542	36	82/02/05	1510:10	1510:40	70	69			2		
4543	36	82/02/05	1527:00	1528:15	155	75			2		
4544	36	82/02/05	2147:30	2147:55	55	89			2		
4545	37	82/02/06	0107:40	0107:55	69	30			2		
4546	37	82/02/06	0258:40	0259:05	124	135	5938		2	149, 14	
4547	37	82/02/06	0302:00	0302:15	40	90			2	129, 14	
4548	37	82/02/06	0355:35	0356:00	49	124	1195		2	149, 15	
4549	37	82/02/06	0359:00	0359:25	44	178	1112		2	149, 15	
4550	37	82/02/06	0425:00	0425:55	222	228	5334		3	149, 16	
4551	37	82/02/06	0432:20	0432:50	90	61			2		
4552	37	82/02/06	0520:45	0521:00	110	92			3		
4553	37	82/02/06	0559:05	0601:25	538	122	11438		2	150, 1	
4554	37	82/02/06	0608:45	0610:45	365	186	7431		3	150, 1	
4555	37	82/02/06	0748:00	0751:25	258	78	1553		2	150, 2	
4556	37	82/02/06	0902:50	0903:05	40	58			2		
4557	37	82/02/06	1009:05	1009:45	110	54			2		
4558	37	82/02/06	1145:05	1145:15	18	120	360		3	150, 3	
4559	37	82/02/06	1223:50	1224:40	369	1143	42964		5	150, 4	M
4560	37	82/02/06	1331:15	1334:10	416	1606	56368		6	150, 5	
4561	37	82/02/06	1640:20	1640:45	66	298	3650		4	150, 6	M
4562	37	82/02/06	1817:25	1818:20	108	236	5682		2	150, 8	EG
4563	37	82/02/06	1948:15	1948:35	47	406	3388		3	150, 9	M
4564	37	82/02/06	1959:20	1959:25	35	91			2	150, 9	
4565	37	82/02/06	2004:15	2006:25	159	201	1784		3	150, 9	
4641	37	82/02/06	2110:50	2114:45	789	91	9060		2	152, 12	SN
4566	37	82/02/06	2130:20	2130:50	45	90			2		
4567	37	82/02/06	2139:45	2141:05	155	65			2		
4568	38	82/02/07	0030:35	0034:00	647	133	3980		2	150, 10	
4569	38	82/02/07	0043:05	0043:50	75	60			2		
4570	38	82/02/07	0103:25	0103:45	55	82			3		
4571	38	82/02/07	0222:05	0222:35	270	77	1467		2	150, 11	
4572	38	82/02/07	0534:35	0535:20	110	53			2		
4573	38	82/02/07	0544:15	0544:50	58	122	614		2	150, 12	
4574	38	82/02/07	0643:35	0644:30	195	58			4		
4575	38	82/02/07	0650:55	0652:05	130	56			2		
4576	38	82/02/07	0825:30	0826:35	70	73			2		
4577	38	82/02/07	1036:50	1037:20	52	374	1984		2	150, 13	

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4578	38	82/02/07	1041:55	1043:30	140	89			2		
4579	38	82/02/07	1136:45	1137:05	51	623	5537		6	150, 14	
4580	38	82/02/07	1812:45	1815:50	265	175	6395		2	150, 15	ES
4581	38	82/02/07	2057:50	2058:15	696	2057	1.13E+05		10	150, 16	SN
4582	39	82/02/08	0011:05	0011:20	45	90			2		
4583	39	82/02/08	0029:55	0030:55	230	112	3687		2	151, 1	
4584	39	82/02/08	0144:50	0148:50	638	562	42358		3	151, 2	M
4585	39	82/02/08	0228:15	0228:35	140	85			2		
4586	39	82/02/08	0241:15	0241:40	55	1193	28495		5	151, 3	
4587	39	82/02/08	0524:05	0525:30	125	66			2		
4588	39	82/02/08	0647:55	0652:20	660	326	18474		4	151, 4	
4589	39	82/02/08	0701:35	0701:55	25	79			2		
4590	39	82/02/08	0710:45	0711:15	45	166	2290		3	151, 4	
4591	39	82/02/08	0712:45	0714:10	189	275	7321		3	151, 4	
4592	39	82/02/08	1249:55	1250:00	1224	31095	1.96E+06		15	151, 5	M, SN, SG
4593	39	82/02/08	1520:25	1520:50	40	50			2		
4594	39	82/02/08	1605:00	1606:40	198	66			2		
4595	39	82/02/08	1657:30	1657:45	51	113	1654		5	151, 6	SA
4596	39	82/02/08	2120:40	2122:05	124	429	8465		5	151, 7	M
4597	39	82/02/08	2124:55	2125:05	50	89			2		
4598	39	82/02/08	2219:35	2220:25	65	63			2		
4599	40	82/02/09	0043:25	0046:10	258	140	5061		2	151, 8	ES
4600	40	82/02/09	0139:55	0141:30	416	386	26177		3	151, 9	M
4601	40	82/02/09	0335:25	0339:05	638	1043	96412		3	151, 11	
4602	40	82/02/09	0357:55	0402:00	359	92	3827		2	151, 11	
4603	40	82/02/09	0440:10	0441:40	1121	430	67328		4	151, 12	SN, DG
4604	40	82/02/09	0710:25	0712:35	239	653	1.61E+05		4	151, 13	ND, DG
4605	40	82/02/09	0925:30	0925:55	559	448	48598		2	151, 14	SN
4606	40	82/02/09	1103:20	1103:40	45	68			2		
4607	40	82/02/09	1106:50	1107:35	554	232	21299		2	151, 15	
4608	40	82/02/09	1411:00	1411:15	1056	580	73965		7	151, 16	SN
4609	40	82/02/09	2239:50	2241:10	188	66			2		
4610	40	82/02/09	2249:25	2250:35	120	61			2		
4611	40	82/02/09	2351:20	2351:35	135	68			2		
4612	41	82/02/10	0307:45	0309:15	380	460	12037		4	152, 1	M
4613	41	82/02/10	0349:30	0350:25	90	69			2		
4614	41	82/02/10	0634:05	0634:45	170	80			2		
4615	41	82/02/10	0750:20	0751:05	115	66			2		
4616	41	82/02/10	0816:30	0817:00	50	59			2		
4617	41	82/02/10	0944:05	0944:40	244	819	25052		5	152, 3	
4618	41	82/02/10	1050:30	1050:50	40	61			2		
4619	41	82/02/10	1124:15	1124:50	142	55			2		
4620	41	82/02/10	1140:30	1141:15	100	57			2		
4621	41	82/02/10	1309:55	1311:40	198	85			2		
4623	41	82/02/10	1411:25	1412:15	225	148	6438		2	152, 4	
4622	41	82/02/10	1551:50	1552:10	35	65			2		
4624	41	82/02/10	1716:55	1717:35	70	80			2		
4625	41	82/02/10	1721:10	1721:35	50	60			2		
4626	41	82/02/10	1732:15	1732:30	40	55			2		
4627	41	82/02/10	1843:40	1851:40	1736	1427	2.73E+05		7	152, 5	M
4628	41	82/02/10	2153:35	2154:20	134	132	2876		3	152, 6	M
4629	41	82/02/10	2213:40	2214:40	136	196	4422		3	152, 7	M
4630	41	82/02/10	2216:10	2217:05	110	378	5477		3	152, 7	M

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4631	41	82/02/10	2335:45	2336:50	182	59			2		
4632	42	82/02/11	0002:05	0004:10	192	115	1200		2	152, 9	
4633	42	82/02/11	0141:00	0141:15	155	61			2		
4634	42	82/02/11	0143:05	0144:45	120	64			2		
4635	42	82/02/11	0315:15	0315:30	90	50			2		
4636	42	82/02/11	0317:25	0317:40	140	57			2		
4637	42	82/02/11	0728:50	0730:00	130	55			2		
4638	42	82/02/11	0916:10	0916:40	60	53			2		
4639	42	82/02/11	1209:45	1211:45	326	531	18648		4	152, 10	
4640	42	82/02/11	1344:40	1345:30	144	1083	12093		5	153, 11	
4642	42	82/02/11	1526:20	1526:40	55	109	812		2	152, 13	
4643	42	82/02/11	1533:10	1533:30	50	74			2		
4644	42	82/02/11	1832:45	1834:00	137	233	7983		2	152, 14	
4645	42	82/02/11	2030:55	2034:45	492	426	23056		4	152, 15	
4646	42	82/02/11	2323:55	2324:45	85	76			2		
4647	42	82/02/11	2351:15	2352:10	857	449	13887		4	152, 16	
4648	43	82/02/12	0546:10	0546:20	20	55			2		
4649	43	82/02/12	0548:40	0550:10	199	479	10229		4	153, 1	
4650	43	82/02/12	0628:40	0628:55	49	131	918		2	153, 2	
4651	43	82/02/12	0633:55	0634:40	60	62			2		
4652	43	82/02/12	1118:05	1118:15	45	121	527		2	153, 3	
4653	43	82/02/12	1340:30	1340:50	73	107	1468		2	153, 4	
4654	43	82/02/12	1701:10	1703:20	355	68	4438		2	153, 5	ES
4655	43	82/02/12	1831:40	1831:55	50	82			2		
4656	43	82/02/12	1834:35	1834:50	30	61			2		
4657	43	82/02/12	2127:05	2127:45	109	177	2724		3	153, 6	
4658	43	82/02/12	2130:15	2135:05	1378	5966	6.29E+05		9	153, 6	M
4659	43	82/02/12	2154:45	2157:40	542	4691	1.56E+05		13	153, 6	
4660	44	82/02/13	0116:35	0116:55	45	74			2		
4661	44	82/02/13	0126:45	0127:15	70	57			2		
4662	44	82/02/13	0130:20	0130:45	40	52			2		
4663	44	82/02/13	0402:40	0402:55	165	80			2		
4664	44	82/02/13	0702:10	0703:05	95	60			2		
4665	44	82/02/13	0833:15	0833:55	115	56			2		
4666	44	82/02/13	0914:00	0914:45	88	111	813		2	153, 7	
4667	44	82/02/13	1511:55	1512:40	95	68			2		
4668	44	82/02/13	1822:10	1822:40	55	53			2		
4669	44	82/02/13	1941:00	1941:45	85	52			2		
* 5083	44	82/02/13	1944:55	1945:15	50	65			2		I
4670	44	82/02/13	1957:35	1958:10	90	202	2380		3	153, 8	
4671	44	82/02/13	2012:20	2016:15	291	107	4601		3	153, 9	ES
4672	44	82/02/13	2326:05	2332:10	658	408	11238		4	153, 10	M
4673	45	82/02/14	0036:10	0036:50	75	80			2		
4674	45	82/02/14	0100:40	0101:05	70	63			2		
4675	45	82/02/14	0119:52	0120:45	176	113	1821		2	153, 11	
4676	45	82/02/14	0218:00	0219:10	90	57			2		ND
4677	45	82/02/14	0219:55	0221:00	175	62			2		ND
4678	45	82/02/14	0343:15	0344:00	150	4521	1.10E+05		6	153, 12	M
4679	45	82/02/14	0407:25	0408:15	120	229	6714		3	153, 14	
4680	45	82/02/14	0540:40	0541:10	55	56			2		
4681	45	82/02/14	0547:00	0547:10	70	54			2		
4682	45	82/02/14	0556:30	0557:25	120	69			2		
4683	45	82/02/14	0607:35	0608:10	35	67			2		

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4684	45	82/02/14	1036:55	1037:45	90	92			2		
4685	45	82/02/14	1053:00	1054:00	90	66			2		
4686	45	82/02/14	1402:35	1403:25	108	130	3740		2	153, 15	ND
4687	45	82/02/14	1945:00	1945:20	35	61			2		
4688	45	82/02/14	2309:35	2310:00	53	120	792		2	153, 16	
4689	45	82/02/14	2310:50	2311:40	103	257	2570		3	153, 16	
4690	46	82/02/15	0232:55	0233:05	30	50			2		
4691	46	82/02/15	1609:30	1609:55	148	56			2		
4692	46	82/02/15	1803:35	1803:40	30	61			2		
4693	46	82/02/15	1939:05	1939:25	35	95			2		
4694	47	82/02/16	0443:45	0443:50	35	47			2		
4695	47	82/02/16	1003:15	1004:50	188	176	6969		2	154, 1	
4696	47	82/02/16	1513:05	1513:25	30	62			2		
4697	47	82/02/16	1859:25	1859:50	523	431	20605		3	154, 2	SN
4698	48	82/02/17	0438:20	0438:40	40	154	1631		2	154, 3	
4699	48	82/02/17	0636:35	0636:50	40	64			2		
4700	48	82/02/17	0916:55	0917:10	40	51			2		
4701	48	82/02/17	0955:55	1000:25	600	245	15347		3	154, 4	
4702	48	82/02/17	1904:00	1904:05	20	70			2		
4703	48	82/02/17	1915:20	1915:40	65	82			3		
4704	48	82/02/17	1943:20	1944:35	162	314	14686		5	154, 5	M, SA
4705	48	82/02/17	2332:00	2333:15	367	233	8581		4	154, 6	
4706	49	82/02/18	0320:45	0321:40	158	340	8963		3	154, 7	
4707	49	82/02/18	0339:45	0340:15	130	53			2		
4708	49	82/02/18	0444:00	0446:15	310	304	9316		4	154, 8	
4709	49	82/02/18	0501:05	0503:00	195	63			2		
4710	49	82/02/18	2331:55	2333:55	728	1019	2.02E+05		4	154, 9	M, ND
4711	50	82/02/19	0053:40	0055:05	125	47			2		
4712	50	82/02/19	0239:50	0240:05	45	57			2		
4713	50	82/02/19	0429:40	0429:50	46	108	932		2	154, 11	
4714	50	82/02/19	0451:45	0453:20	472	347	19566		3	154, 12	
4715	50	82/02/19	0555:50	0556:40	151	208	6871		2	154, 13	IS
4716	50	82/02/19	1652:25	1652:35	20	89			2		
4717	51	82/02/20	0351:55	0353:45	135	71			2		
4718	51	82/02/20	0725:15	0725:35	60	71			2		
4719	51	82/02/20	0726:55	0727:40	65	69			2		
4720	51	82/02/20	0919:35	0924:45	1003	1728	2.80E+05		6	154, 14	M, EN
4721	51	82/02/20	1050:10	1051:00	166	120	2883		2	154, 15	
4722	51	82/02/20	1235:00	1235:15	40	77			2		
4723	51	82/02/20	2158:40	2159:45	181	138	3972		2	154, 16	SG, DG
4724	52	82/02/21	0028:30	0029:00	75	60			2		
4725	52	82/02/21	0122:10	0125:25	311	61	2522		2	155, 1	
4726	52	82/02/21	1055:00	1055:15	50	75			2		
4727	52	82/02/21	1357:30	1357:50	55	68			2		
4728	52	82/02/21	1852:15	1852:40	60	58			2		
4729	53	82/02/22	0206:25	0207:20	120	71			2		
4730	53	82/02/22	0726:10	0726:30	45	60			2		
4732	53	82/02/22	1208:40	1209:15	253	75	2394		2	155, 3	
4733	54	82/02/23	0006:40	0006:55	40	51			2		
4734	54	82/02/23	0015:15	0015:45	60	74			2		
4735	54	82/02/23	0152:40	0154:58	257	63	2559		2	155, 4	
4736	54	82/02/23	0312:42	0314:35	560	531	39173		5	155, 5	M
4737	54	82/02/23	0514:40	0516:27	221	188	6518		3	155, 7	

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4738	54	82/02/23	0530:00	0530:25	70	54			2		
4739	54	82/02/23	1746:11	1746:41	127	58			2		
4740	55	82/02/24	0045:18	0045:38	45	48			2		
4741	55	82/02/24	0330:38	0331:20	273	105	2005		4	155, 8	
4742	55	82/02/24	0509:05	0509:25	58	248	2331		5	155, 9	
4743	55	82/02/24	0627:20	0627:21	135	148	3643		7	155, 10	SA, AX
4744	55	82/02/24	0633:30	0649:31	1903	105	43004		2	155, 10	
4745	55	82/02/24	1134:10	1135:49	195	112	4104		2	155, 11	
4746	55	82/02/24	1141:25	1142:19	123	59			2		
4747	55	82/02/24	1449:30	1450:25	194	96			2		
4748	55	82/02/24	1549:50	1551:40	283	168	1.99E+05		2	155, 12	DG, EG, ND
4749	55	82/02/24	1917:20	1918:15	120	79			2		
4750	55	82/02/24	2029:10	2029:40	190	76			7		
4751	56	82/02/25	0338:15	0340:50	232	119	3141		2	155, 13	
4752	56	82/02/25	0514:20	0517:05	264	125	4281		2	155, 14	EN
4753	56	82/02/25	0947:30	0949:40	180	75			2		DG
4754	56	82/02/25	0951:20	0951:50	60	67			2		
4755	56	82/02/25	0952:35	0954:35	145	86			2		
4756	56	82/02/25	1438:40	1439:20	95	143	2399		3	155, 15	
4757	56	82/02/25	1442:20	1442:50	206	111	2125		2	155, 15	
4758	56	82/02/25	1605:20	1606:40	175	152	4651		2	155, 16	
4759	56	82/02/25	2017:15	2017:50	121	111	2602		5	156, 1	
4760	56	82/02/25	2151:25	2152:35	251	1028	59603		9	156, 2	M
4761	56	82/02/25	2236:30	2237:15	110	86			7		
4762	57	82/02/26	0016:05	0018:50	342	189	21656		14	156, 4	AX
4763	57	82/02/26	0306:10	0319:40	1425	167	45574		2	156, 3	EN
4764	57	82/02/26	0424:55	0425:40	120	100			2		
4765	57	82/02/26	0924:30	0924:50	110	89			2		
4766	57	82/02/26	1413:50	1414:18	40	60			2		
4767	57	82/02/26	1516:50	1519:20	371	255	9012		5	156, 6	M
4768	57	82/02/26	1724:35	1725:24	123	69			2		
4769	57	82/02/26	1735:30	1736:24	109	326	4730		5	156, 7	M
4770	57	82/02/26	2002:50	2004:20	295	84			5		
4774	57	82/02/26	2029:00	2029:25	85	75			2		
4771	57	82/02/26	2048:50	2049:30	55	75			2		
4775	57	82/02/26	2121:55	2125:00	552	70	5953		4	156, 9	
4772	57	82/02/26	2136:05	2139:40	716	190	38762		6	156, 8	
4776	57	82/02/26	2202:25	2202:40	65	50			2		
4773	57	82/02/26	2312:20	2312:30	60	54			2		
4777	57	82/02/26	2350:00	2350:45	145	59			5		
4778	58	82/02/27	0434:35	0434:50	55	85			2		
6300	58	82/02/27	0444:06	0444:20	56	61			2		
4779	59	82/02/28	1940:45	1941:08	67	59			2		
4780	60	82/03/01	0112:58	0113:05	18	75			2		
4781	60	82/03/01	0235:54	0239:08	301	418	15700		14	156, 10	
4782	60	82/03/01	0535:42	0537:05	114	70			2		
4783	60	82/03/01	1634:50	1636:05	218	104	5271		4	156, 11	
4784	60	82/03/01	1917:19	1917:43	44	60			2		
4785	60	82/03/01	1924:08	1924:35	47	408	3288		5	156, 12	M
4786	60	82/03/01	2053:00	2054:29	703	153	14757		5	156, 14	
4787	60	82/03/01	2137:00	2138:54	151	78			4		
4788	60	82/03/01	2228:44	2237:55	804	751	1.35E+05		6	156, 15	M
4789	61	82/03/02	0001:34	0020:40	1585	160	40684		4	157, 1	

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4790	61	82/03/02	0039:56	0047:35	1365	260	1.50E+05		7	157, 1	EN
4791	61	82/03/02	0823:30	0824:15	85	74			2		
4792	61	82/03/02	1510:17	1510:25	15	70			2		
4793	61	82/03/02	1558:38	1600:30	629	135	9568		2	157, 2	
4794	61	82/03/02	1644:12	1645:10	106	64			2		
4795	61	82/03/02	2120:00	2120:45	140	64			5		
4796	61	82/03/02	2257:25	2259:15	182	60			4		
4797	61	82/03/02	2303:49	2305:18	205	74			5		
4798	62	82/03/03	0124:24	0124:25	277	256	13713		9	157, 3	SA, AX
4799	62	82/03/03	1130:55	1133:05	297	105	2934		2	157, 4	
4800	63	82/03/04	0145:14	0147:08	282	170	10343		2	157, 5	
4801	63	82/03/04	1303:30	1303:40	20	58			2		
4802	63	82/03/04	1420:40	1420:55	74	213	213		3	157, 6	
4803	63	82/03/04	2059:14	2059:30	80	183	1629		2	157	
4804	63	82/03/04	2214:05	2215:12	172	163	4395		2	157, 7	
4805	63	82/03/04	2241:50	2242:11	50	63			2	157, 8	
4806	64	82/03/05	0141:25	0141:58	122	61			2		
4807	64	82/03/05	0241:26	0243:34	1032	1481	1.54E+05		5	157, 9	M
4808	64	82/03/05	0506:18	0506:50	60	60			2		
4809	64	82/03/05	0640:52	0641:52	77	501	11735		5	157, 10	M
4810	64	82/03/05	1102:06	1102:17	50	64			2		
4814	64	82/03/05	1828:15	1828:50	120	61			2		
4811	64	82/03/05	1828:35	1828:51	136	62			2		
4812	64	82/03/05	1854:19	1854:52	108	86			2		
4815	64	82/03/05	1854:35	1854:55	90	75			2		
4813	64	82/03/05	1902:35	1903:07	199	60			2		
4816	64	82/03/05	2001:55	2004:15	190	62			2		
4817	64	82/03/05	2040:35	2042:05	140	64			5		
4818	64	82/03/05	2053:30	2054:15	73	170	3404		2	157, 11	
4819	64	82/03/05	2137:50	2139:50	200	76			5		
4820	64	82/03/05	2150:35	2151:45	185	59			2		
4821	64	82/03/05	2220:05	2221:05	270	74	3123		2	157, 12	
4822	65	82/03/06	0136:55	0137:10	65	90			2		
4823	65	82/03/06	0242:45	0243:35	80	58			2		
4824	65	82/03/06	0803:15	0803:45	38	173	1458		3	157, 13	
4825	65	82/03/06	1105:25	1105:50	50	62			2		
4826	65	82/03/06	1225:00	1225:35	65	61			2		
4827	65	82/03/06	2121:23	2123:15	244	198	9644		5	157, 14	AX
4828	65	82/03/06	2302:24	2304:32	180	74			2		
4829	66	82/03/07	0120:05	0120:43	107	53			2		
4830	66	82/03/07	0246:24	0304:46	1123	2833	2.59E+05		10	157, 15	M, EN
4831	66	82/03/07	0405:40	0420:35	2069	289	2.50E+05		7	157, 16	EN
4832	66	82/03/07	0614:13	0614:20	31	62			2		
4833	66	82/03/07	1351:40	1352:32	203	1481	49262		8	158, 1	M
4834	66	82/03/07	1715:49	1716:38	76	70			2		
4835	66	82/03/07	1958:42	1958:51	50	75			2		
4836	66	82/03/07	2002:00	2002:22	160	66			2		
4837	66	82/03/07	2010:48	2011:46	148	97			4		AX
4838	67	82/03/08	0043:45	0044:15	66	56			2		
4839	67	82/03/08	0358:27	0358:51	40	52			2		
4840	67	82/03/08	1303:56	1307:26	324	111	6585		2	158, 3	
4841	67	82/03/08	1312:20	1313:32	160	87			2		
4842	67	82/03/08	1940:44	1947:12	631	206	27624		3	158, 4	

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4843	67	82/03/08	1956:58	2017:38	1267	1482	2.60E+05		7	158, 4	
4844	68	82/03/09	0533:22	0533:49	90	62			2		
4845	68	82/03/09	2254:25	2300:50	693	132	28720		5	158, 5	AX
4846	68	82/03/09	2312:15	2313:55	153	122	1090		2	158, 5	
4847	70	82/03/11	0254:22	0254:58	98	99			2		
4848	70	82/03/11	0613:39	0614:14	44	60			2		
4849	70	82/03/11	1557:00	1557:30	45	81			2		
4850	71	82/03/12	1241:00	1241:25	110	91			2		
4851	72	82/03/13	1523:20	1524:00	60	58			2		
4852	73	82/03/14	2114:56	2115:04	43	163	854		4	185, 6	
4853	74	82/03/15	0032:07	0032:54	79	58			2		
4855	74	82/03/15	0725:50	0726:20	55	60			2		
4856	74	82/03/15	1626:20	1627:05	80	66			4		
4857	74	82/03/15	1804:02	1804:40	76	62			5		
4858	75	82/03/16	0156:10	0156:33	48	220	2008		3	158, 7	
4859	75	82/03/16	0809:36	0809:46	58	68			2		
4860	75	82/03/16	1118:30	1120:25	180	65			2		
4861	76	82/03/17	0153:15	0155:33	184	74			2		
4865	76	82/03/17	0957:09	0958:11	62	64			2		
4866	76	82/03/17	1010:16	1011:01	98	63			2		
4862	76	82/03/17	1107:18	1108:16	119	129	2438		2	158, 8	
4863	76	82/03/17	1111:31	1117:18	609	107	8605		2	158, 8	
4864	76	82/03/17	1153:39	1154:24	69	55			2		
4867	76	82/03/17	1239:05	1239:30	60	100			2		
4868	76	82/03/17	1240:15	1241:23	155	75			2		
4869	76	82/03/17	1306:25	1306:40	35	84			2		
4870	76	82/03/17	1424:27	1424:58	81	235	3952		4	158, 9	
4871	76	82/03/17	1504:58	1505:07	30	75			2		
4872	76	82/03/17	2202:46	2203:03	130	155	2968		2	158, 10	
4873	77	82/03/18	0816:00	0816:50	171	107	3713		2	158, 11	
4874	77	82/03/18	1045:05	1045:50	70	66			2		
4875	77	82/03/18	1053:55	1054:15	40	62			2		
4876	77	82/03/18	1230:40	1231:35	208	243	6746		2	158, 12	
4877	77	82/03/18	1354:55	1355:15	137	279	26420		2	158, 13	SG
4878	77	82/03/18	1543:45	1544:45	55	62			2		
4879	77	82/03/18	1721:55	1722:45	163	109	2528		4	158, 14	
4880	77	82/03/18	1741:35	1742:00	55	61			2		
4881	77	82/03/18	2040:20	2041:06	94	123	1005		2	158, 15	
4882	77	82/03/18	2042:09	2043:17	123	54			2		
4883	77	82/03/18	2341:20	2342:25	125	56			2		
4884	78	82/03/19	0419:00	0420:25	170	75			2		
4885	78	82/03/19	0435:35	0459:05	1761	371	39650		3	158, 16	M
4886	78	82/03/19	0918:35	0918:45	30	64			2		
4887	78	82/03/19	1253:50	1254:05	70	91			2		
4888	78	82/03/19	1424:25	1424:40	50	58			2		
4889	78	82/03/19	1532:35	1534:30	1454	173	38296		2	159, 1	
4890	78	82/03/19	2002:25	2002:44	56	60			2		
4891	78	82/03/19	2003:56	2004:16	46	167	2201		4	159, 2	
4892	79	82/03/20	0102:35	0103:40	170	94			2		
4893	80	82/03/21	0404:45	0406:10	195	63			2		
4894	80	82/03/21	0744:20	0745:05	214	342	6991		3	159, 3	
4895	80	82/03/21	0911:35	0914:05	200	62			2		
4896	80	82/03/21	1150:20	1150:55	70	55			2		



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4897	80	82/03/21	1323:00	1325:00	180	75			4		
4898	80	82/03/21	1452:55	1453:10	42	195	1054		3	159, 4	M
4899	80	82/03/21	1815:10	1816:10	73	122	1352		2	159, 6	
4900	80	82/03/21	2140:45	2141:20	120	65			2		
4901	80	82/03/21	2147:55	2148:15	35	89			2		
4902	81	82/03/22	0033:20	0034:05	120	63			2		
4903	81	82/03/22	0044:55	0045:35	165	85			2		
4904	81	82/03/22	0152:40	0153:00	115	71			2		
4917	81	82/03/22	0314:07	0316:36	198	56			2		AX
4905	81	82/03/22	0822:13	0822:37	65	105	1037		2	159, 7	
4906	81	82/03/22	0825:52	0826:34	68	113			2		
4907	81	82/03/22	0909:15	0909:49	73	70			2		
4908	81	82/03/22	1128:01	1128:51	161	87			12		AX
4909	81	82/03/22	1218:03	1218:11	96	63			2		
4910	81	82/03/22	1624:07	1625:45	319	303	14091		2	159, 8	
4915	81	82/03/22	2252:17	2252:46	60	70			2		
4916	81	82/03/22	2303:29	2303:34	14	76			2		
4911	82	82/03/23	0016:53	0016:58	42	72			2		
4918	82	82/03/23	0328:33	0329:07	75	74			2		
4912	82	82/03/23	0627:02	0627:21	34	73			2		
4919	82	82/03/23	0645:23	0645:55	54	78			2		
4920	82	82/03/23	0714:54	0715:34	91	284	4297		2	159, 10	ND
4913	82	82/03/23	0855:05	0855:39	165	85			2		
4914	82	82/03/23	1116:01	1116:09	16	136	334		2	159, 9	
4921	82	82/03/23	1931:02	1931:13	26	105	389		2	159, 11	
4922	82	82/03/23	2100:12	2102:03	189	92			2		
4923	82	82/03/23	2107:58	2108:17	114	80			3		
4924	82	82/03/23	2355:52	2356:28	83	129	1501		3	159, 12	
4925	83	82/03/24	0019:32	0020:43	192	85			2		
4926	83	82/03/24	0032:26	0035:07	182	89			2		
4927	83	82/03/24	0350:39	0351:06	73	63			2		
4928	83	82/03/24	0457:30	0457:40	135	780	13930		4	159, 13	
4929	83	82/03/24	0626:00	0626:06	18	67			2		
4930	83	82/03/24	0654:51	0655:13	66	575	6681		5	159, 14	
4931	83	82/03/24	1137:35	1137:40	19	64			2		
4932	83	82/03/24	2034:15	2034:56	194	281	10208		4	159, 15	
4933	83	82/03/24	2200:19	2201:08	350	106	6313		2	159, 16	SN
4934	84	82/03/25	0139:20	0140:59	121	165	54999		2	160, 1	ND,EG
4935	84	82/03/25	0307:27	0307:42	94	85			2		
4936	84	82/03/25	0606:04	0608:52	672	137	12094		3	160, 2	
4937	84	82/03/25	0639:35	0640:14	61	54			2		
4938	84	82/03/25	0932:04	0932:18	31	92			2		
4939	84	82/03/25	1057:05	1057:22	40	67			2		
4940	84	82/03/25	1131:11	1131:27	47	66			2		
4941	85	82/03/26	0546:55	0549:09	377	4635	1.42E+05		12	160, 3	M
4942	85	82/03/26	2137:20	2137:50	85	110	1816		2	160, 5	
4943	85	82/03/26	2143:20	2144:05	45	80			2		
4944	86	82/03/27	0216:35	0217:25	530	126	9089		2	160, 6	
4945	86	82/03/27	0301:55	0302:25	79	144	2250		3	160, 7	
4946	86	82/03/27	0305:20	0305:30	45	64			2	160, 7	
4947	86	82/03/27	0408:30	0409:45	125	71			2		
4948	86	82/03/27	0912:05	0914:25	373	121	6193		2	160, 8	
4949	86	82/03/27	1413:45	1415:50	462	5029			6	160, 9	SA,EN

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4950	86	82/03/27	1518:00	1518:30	130	1121	18427		5	160, 10	M
4951	86	82/03/27	1825:50	1826:50	85	56			2		
4952	86	82/03/27	2303:30	2304:05	40	89			2		
4953	87	82/03/28	0902:35	0904:05	105	67			2		
4954	87	82/03/28	0915:55	0916:25	40	58			2		
4955	88	82/03/29	0059:10	0059:35	60	97			2		
4956	88	82/03/29	0331:20	0332:25	204	156	6718		3	160, 11	
4957	88	82/03/29	0354:40	0356:10	272	73	3604		2	160, 12	
4958	88	82/03/29	0415:25	0416:40	135	141	1774		2	160, 13	
4959	88	82/03/29	0905:20	0907:25	137	1123	17372		4	160, 14	M
4960	88	82/03/29	1437:49	1438:05	55	60			2		
4961	88	82/03/29	1623:27	1624:08	83	68			2		
4962	88	82/03/29	2109:27	2111:13	236	212	5684		2	160, 15	
4974	89	82/03/30	0015:10	0015:25	25	96			2		
4963	89	82/03/30	0220:36	0221:03	47	64			2		
4964	89	82/03/30	0232:00	0233:04	77	99			2		
4965	89	82/03/30	0521:10	0537:14	1326	18903	6.47E+06		15	161, 1	SN
4966	89	82/03/30	0802:20	0803:14	89	60			2		
4967	89	82/03/30	0834:10	0835:48	253	375	6721		3	161, 2	M
4968	89	82/03/30	1417:32	1419:08	678	459	74222		3	161, 4	M
4969	89	82/03/30	1601:20	1601:52	165	75			2		
4970	89	82/03/30	1747:10	1748:05	70	65			2		
4971	89	82/03/30	2049:15	2049:20	21	124	513		2	161, 5	
4972	89	82/03/30	2058:20	2058:55	113	367	4076		3	161, 6	
4973	89	82/03/30	2252:05	2252:15	85	91			2		
4975	90	82/03/31	0123:05	0126:15	779	182	21777		2	161, 7	
4976	90	82/03/31	0204:05	0204:50	128	132	2935		2	161, 8	
4977	90	82/03/31	0312:10	0312:25	85	358	4473		3	161, 9	M
4980	90	82/03/31	0611:00	0615:54	1266	1498	79573		5	161, 12	M
4981	90	82/03/31	0701:55	0702:14	50	52			2		
4978	90	82/03/31	0833:05	0834:25	354	3248	1.86E+05		5	161, 11	M
4979	90	82/03/31	1146:40	1147:10	40	60			2		
4982	90	82/03/31	1553:26	1553:51	60	91			2		
4983	90	82/03/31	1713:36	1714:28	107	115	1043		2	161, 13	
4984	90	82/03/31	2221:52	2225:33	1038	7677	5.76E+05		9	161, 14	M,ND
4985	91	82/04/01	0556:06	0557:15	222	207	8469		2	161, 15	
4986	91	82/04/01	1848:06	1848:40	85	113	1016		2	161, 16	
4987	91	82/04/01	2349:35	2349:45	35	244	1684		2	162, 1	
4988	92	82/04/02	0407:25	0407:30	55	60			2		
4989	92	82/04/02	0901:20	0907:50	1177	8452	5.24E+05		13	162, 2	
4990	92	82/04/02	1703:30	1704:15	133	194	3726		5	162, 3	
4991	92	82/04/02	2347:42	2348:14	74	107	1579		3	162, 4	
4992	93	82/04/03	0133:46	0135:02	148	59			2		
4993	93	82/04/03	0242:47	0243:10	102	64			2		
4994	93	82/04/03	0718:51	0719:04	22	60			2		
4995	93	82/04/03	0735:43	0736:16	40	79			2		
4996	93	82/04/03	0743:05	0744:38	303	107	3828		2	162, 5	
4997	93	82/04/03	0753:37	0755:36	242	73	3572		2	162, 5	EN
4998	93	82/04/03	1455:40	1456:15	288	57	5464		3	162, 6	
4999	93	82/04/03	2011:45	2012:00	65	60			2		
5000	94	82/04/04	0402:10	0402:40	59	111	2138		2	162, 7	
5001	94	82/04/04	1355:45	1400:10	344	81	1703		2	162, 8	
5002	94	82/04/04	1814:15	1814:35	75	76			2		

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5003	95	82/04/05	0845:30	0847:30	232	111	4480		2	162, 9	
5005	95	82/04/05	1221:30	1222:30	125	63			2		
5004	95	82/04/05	1616:02	1617:18	194	78			2		
5006	98	82/04/08	1353:40	1354:35	107	117	845		2	162, 10	
5007	99	82/04/09	0424:59	0426:25	132	59			2		
5008	99	82/04/09	2219:15	2219:35	90	69			2		
5009	99	82/04/09	2350:40	2351:50	205	170	7158		2	162, 11	SG
5010	100	82/04/10	2333:45	2334:10	145	93			2		
5011	100	82/04/10	2337:05	2337:40	65	58			2		
5012	101	82/04/11	0331:30	0335:45	626	245	9254		2	162, 12	
5013	101	82/04/11	1346:50	1347:35	297	106	4462		2	162, 13	
5014	101	82/04/11	1752:00	1753:00	89	206	2643		3	162, 14	
5015	101	82/04/11	1952:00	1952:50	130	62			2		
5016	101	82/04/11	2105:15	2105:50	170	94			6		
5017	101	82/04/11	2241:25	2242:40	180	64			2		
5018	101	82/04/11	2329:25	2329:55	143	59			2		
5019	102	82/04/12	1606:45	1608:45	502	352	11417		4	162, 15	
5020	102	82/04/12	1829:55	1830:25	75	71			2		
5021	102	82/04/12	2225:40	2226:55	522	125	8281		5	162, 16	
5022	102	82/04/12	2315:15	2315:55	105	56			2		
5023	103	82/04/13	0046:15	0048:35	185	62			3		
5024	103	82/04/13	1631:24	1632:21	155	74			2		
5025	104	82/04/14	0124:04	0124:08	30	56			2		
5026	104	82/04/14	0248:08	0249:38	1162	193	61396		5	163, 1	SN
5027	105	82/04/15	1239:46	1240:17	62	59			2		
5028	106	82/04/16	0229:14	0229:46	67	57			2		
5029	106	82/04/16	2120:45	2125:30	573	776	1.24E+05		8	163, 2	M
5030	106	82/04/16	2343:30	2347:30	433	185	.6420		13	163, 4	
5031	107	82/04/17	0034:40	0036:45	170	69			3		
5032	107	82/04/17	0104:55	0108:05	282	93	4621		2	163, 5	
5033	107	82/04/17	2104:55	2106:20	592	176	27693		5	163, 6	SN,SG
5034	107	82/04/17	2150:10	2152:20	300	76			5		
5035	108	82/04/18	2049:05	2050:55	558	90	13811		4	163, 7	SN,AX
5036	108	82/04/18	2133:55	2134:40	155	68			3		
5037	108	82/04/18	2253:20	2254:00	100	65			2		
5038	109	82/04/19	0003:01	0003:30	162	64			2		
5039	109	82/04/19	1019:14	1021:40	351	659	42910		7	163, 8	M
5040	109	82/04/19	1810:21	1811:28	812	3645	3.14E+05		8	163, 9	
5041	110	82/04/20	2158:53	2159:17	183	71			3		
5042	111	82/04/21	2007:09	2008:30	182	83			4		AX
5043	111	82/04/21	2048:04	2049:10	173	56			5		AX
5044	111	82/04/21	2222:43	2224:11	166	77			5		AX
5045	112	82/04/22	1243:55	1251:40	663	240	40833		3	163, 10	EN
5046	112	82/04/22	2028:21	2028:58	75	73			2		DG
5047	113	82/04/23	0036:46	0036:59	36	194	1685		4	163, 11	
5048	113	82/04/23	0724:29	0725:04	61	58			2		
5049	113	82/04/23	0902:49	0903:22	74	83			2		
5050	113	82/04/23	1957:25	1957:45	45	66			2		
5051	114	82/04/24	2135:00	2139:30	578	68	4831		2	163, 12	
5052	116	82/04/26	2359:16	0001:40	196	60			2		
* 5053	117	82/04/27	1057:19	1057:44	54	79			2		
* 5054	117	82/04/27	1912:20	1913:18	133	65			5		AX
* 5055	119	82/04/29	1219:15	1219:45	95	73			2		

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* 5056	120	82/04/30	1501:35	1503:00	140	69			3		AX
* 5057	120	82/04/30	1817:40	1818:00	165	72			4		AX
* 5058	120	82/04/30	1954:30	1955:50	369	72	3144		5	163, 13	AX
* 5059	120	82/04/30	2003:50	2007:30	394	61	1173		2	163, 13	
* 5060	121	82/05/01	1446:30	1447:00	70	72			2		AX
* 5061	121	82/05/01	1624:00	1625:15	115	50			2		AX
* 5062	121	82/05/01	1800:20	1801:45	208	195	49150		5	163, 14	DS
* 5063	122	82/05/02	0327:00	0331:25	422	75	2826		2	163, 15	
* 5064	122	82/05/02	0344:20	0349:10	587	91	3490		2	163, 15	
* 5065	122	82/05/02	0936:35	0936:50	70	66			2		
* 5066	122	82/05/02	1427:40	1429:00	115	179	4213		6	163, 16	AX
* 5067	122	82/05/02	1452:20	1453:00	75	55			2		
* 5068	122	82/05/02	1606:25	1607:25	52	155			6		AX
* 5069	122	82/05/02	1742:50	1744:20	180	93			6		AX
* 5070	122	82/05/02	1909:10	1921:35	1441	67	6785		2	164, 1	AX
* 5071	123	82/05/03	1111:36	1112:13	87	146	1175		3	164, 2	
* 3888	123	82/05/03	1551:26	1552:22	61	60			2		
* 5072	123	82/05/03	1730:22	1731:24	172	106	3055		5	164, 3	AX
* 5073	123	82/05/03	1900:39	1901:41	317	199	12509		2	164, 4	
* 5074	123	82/05/03	2030:56	2032:14	150	97			2		
* 5075	123	82/05/03	2346:45	2347:42	140	68			2		
* 5076	124	82/05/04	0006:51	0007:33	120	197	5500		3	164, 5	
* 5077	124	82/05/04	0256:40	0257:06	107	66			2		
* 5078	125	82/05/05	0054:29	0055:22	73	76			2		
* 5079	126	82/05/06	1658:53	1659:08	47	510	8133		5	164, 6	
* 5080	126	82/05/06	1952:28	1952:38	30	88			5		
* 5081	126	82/05/06	2136:37	2136:47	54	67			2		
* 5082	127	82/05/07	0210:41	0210:58	89	82			2		
* 5084	130	82/05/10	0555:20	0555:35	45	96			2		
* 5085	130	82/05/10	0604:50	0605:00	125	71			3		
* 5086	130	82/05/10	0938:20	0938:50	65	88			2		
* 5087	130	82/05/10	1311:00	1312:19	107	87			2		
* 5088	131	82/05/11	0321:07	0321:24	79	534	7597		5	164, 7	M1
* 5089	131	82/05/11	0718:21	0718:56	61	66			2		
* 5090	133	82/05/13	1051:19	1051:28	131	57			2		
* 5091	133	82/05/13	1309:06	1311:17	478	78	7262		3	164, 8	
* 5092	136	82/05/16	0756:15	0756:30	115	64			13		
* 5093	137	82/05/17	0849:25	0851:10	292	86	5284		4	164, 9	
* 5094	137	82/05/17	2149:49	2150:13	46	60			2		
* 5095	137	82/05/17	2319:04	2320:54	305	267	10159		3	164, 10	
* 5096	138	82/05/18	0223:37	0224:15	51	112	1024		4	164, 11	
* 5098	138	82/05/18	1812:40	1813:00	175	77			2		
* 5099	138	82/05/18	1938:30	1939:05	90	74			2		
* 5100	138	82/05/18	2141:25	2142:30	80	176	1539		2	164, 12	
* 5101	139	82/05/19	0149:50	0151:15	514	84	5475		2	164, 13	
* 5097	139	82/05/19	0529:35	0529:45	160	67			2		
* 5102	140	82/05/20	1426:50	1427:40	805	121	13837		2	164, 14	SN
* 5103	141	82/05/21	0307:20	0308:05	150	52			2		
* 5104	142	82/05/22	0037:43	0039:12	585	310	37188		2	164, 15	
* 5105	142	82/05/22	0253:35	0256:55	343	94	5767		2	164, 16	
* 5106	142	82/05/22	0435:04	0435:37	51	50			2		
* 5107	142	82/05/22	0441:16	0441:40	88	209	3030		2	165, 1	
* 5108	142	82/05/22	2232:18	2232:41	41	87			2		

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* 5109	143	82/05/23	0243:25	0245:17	680	359	24382		2	165, 2	
* 5110	145	82/05/25	0222:11	0222:19	23	115	474		2	165, 3	
* 5111	146	82/05/26	0345:05	0345:22	121	97			2		
* 5112	146	82/05/26	2116:55	2118:40	150	101			2		
* 5113	146	82/05/26	2119:35	2119:55	90	68			2		
* 5114	147	82/05/27	0507:42	0508:05	71	127	1739		2	165, 4	
* 5115	147	82/05/27	0549:50	0550:05	35	61			2		
* 5118	148	82/05/28	0055:08	0055:21	30	63			2		
* 5119	148	82/05/28	0303:20	0305:36	347	177	13645		2	165, 7	
* 5120	148	82/05/28	0327:33	0328:22	140	166	5341		2	165, 7	
* 5121	148	82/05/28	1456:32	1456:57	300	178	6727		4	165, 8	
* 5116	148	82/05/28	1603:24	1609:21	98	261	4788		2	165, 5	
* 5122	148	82/05/28	2215:51	2217:41	168	141	2675		2	165, 9	
* 5117	148	82/05/28	2229:49	2230:53	373	109	8117		5	165, 6	
* 5123	149	82/05/29	0518:43	0519:39	93	87			2		
* 5124	149	82/05/29	0620:42	0627:00	631	86	7898		2	165, 10	
* 5125	149	82/05/29	0647:53	0648:13	43	79			2		
* 5126	149	82/05/29	0759:23	0700:20	67	85			2		
* 5127	149	82/05/29	0819:43	0820:05	146	152	2724		2	165, 11	
* 5128	149	82/05/29	0947:19	0948:14	68	71			2		
* 5129	149	82/05/29	1002:08	1002:23	46	78			2		
* 6243	149	82/05/29	1258:05	1258:27	148	129	3518		2	194, 11	I
* 6244	149	82/05/29	1318:17	1321:08	184	95			2		I, EN
* 5130	149	82/05/29	1535:17	1535:45	67	136	1581		2	165, 12	
* 6245	149	82/05/29	1704:15	1704:21	77	53			2		I
* 6246	149	82/05/29	1718:26	1720:14	181	82	9391		2		I
* 6247	149	82/05/29	2017:17	2017:42	159	95			2		I
* 6248	149	82/05/29	2021:44	2022:48	286	277	14943		2	194, 12	I
* 6249	149	82/05/29	2055:36	2100:27	786	407	36586		3	194, 13	I
* 6250	149	82/05/29	2149:24	2203:52	2578	3610	1.71E+06		8	194, 14	M1, I, SN
* 5131	150	82/05/30	0600:50	0602:02	692	196	32539		2	165, 13	SA
* 5132	150	82/05/30	0949:30	0949:40	69	326			8	165, 14	ND
* 5133	150	82/05/30	2140:27	2142:08	376	83	5255		5	165, 15	AX
* 5134	150	82/05/30	2234:38	2235:46	101	98			2		
* 5135	151	82/05/31	0141:34	0143:48	296	109	8548		6	165, 16	AX
* 5136	151	82/05/31	0303:35	0310:10	691	781	41976		5	166, 1	M1
* 5137	151	82/05/31	0725:21	0725:53	55	95			2		
* 5138	153	82/06/02	0058:54	0059:07	164	79			2		
* 5139	153	82/06/02	0110:23	0111:22	167	78			10		AX
* 5140	153	82/06/02	0711:38	0711:49	116	130	1408		4	166, 2	
* 5141	153	82/06/02	0833:45	0834:18	40	96			2		
* 5142	153	82/06/02	0901:07	0901:55	66	160	1949		5	166, 3	
* 5143	153	82/06/02	1213:09	1213:41	81	72			2		
* 5144	153	82/06/02	1527:27	1605:27	3062	85			2	166, 4	IN
* 5145	153	82/06/02	1643:31	1643:48	59	150	1980		2	166, 5	
* 5146	153	82/06/02	1650:01	1650:37	111	217	5222		2	166, 5	
* 5147	153	82/06/02	1659:53	1659:57	11	91			2		
* 5148	153	82/06/02	2004:58	2006:24	137	63			2		
* 5149	153	82/06/02	2255:11	2255:57	119	410	7004		4	166, 6	
* 5150	154	82/06/03	0217:14	0217:45	109	83			2		
* 5151	154	82/06/03	0320:08	0320:44	90	199	4084		2	166, 7	
* 5152	154	82/06/03	0322:04	0327:38	806	3194	1.79E+05		5	166, 7	
* 5153	154	82/06/03	0336:25	0338:09	162	87			2		

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
* 5154	154	82/06/03	0348:29	0348:44	39	59			2		
* 5155	154	82/06/03	0820:25	0820:44	38	74			2		
* 5156	154	82/06/03	0830:10	0837:21	1353	1411	2.23E+05		5	166, 8	M1
* 5157	154	82/06/03	1140:32	1143:31	1449	213791	4.50E+07		15	166, 9	EN
* 5158	154	82/06/03	1241:43	1243:45	159	77			2		ES,AX
* 5159	154	82/06/03	1633:55	1634:00	24	147	562		2	166, 10	
* 5160	154	82/06/03	1735:51	1736:19	265	190	6367		2	166, 11	DG
* 5161	154	82/06/03	2101:47	2101:55	24	64			2		
* 5162	154	82/06/03	2128:08	2128:38	120	1198	24122		7	166, 12	
* 5163	155	82/06/04	0011:31	0031:26	1968	3590	1.20E+06		8	166, 13	EN
* 5164	155	82/06/04	0214:37	0215:31	125	69			2		AX
* 5165	155	82/06/04	0259:03	0259:07	293	443	31964		4	166, 14	SA
* 5166	155	82/06/04	0320:30	0320:37	14	69			2		
* 5167	155	82/06/04	0631:35	0631:42	201	493	19006		4	166, 15	
* 5168	155	82/06/04	0805:54	0806:02	30	291	1311		13	166, 16	
* 5169	155	82/06/04	0833:48	0834:05	60	258	1759		3	167, 1	
* 5170	155	82/06/04	0936:38	0936:56	687	97	7353		2	167, 2	SA
* 5171	155	82/06/04	0952:14	0952:23	172	120	2677		2	167, 2	
* 5172	155	82/06/04	1001:35	1013:27	751	109	8701		2	167, 2	
* 5173	155	82/06/04	1311:50	1313:07	169	251	7409		4	167, 3	
* 5174	155	82/06/04	1317:47	1323:55	381	213	8721		2	167, 3	EN
* 5175	155	82/06/04	1428:29	1428:35	490	709	64448		2	167, 4	SA
* 5176	155	82/06/04	1447:00	1447:18	33	1209	4497		7	167, 4	
* 5177	155	82/06/04	1534:47	1535:15	64	60			2		
* 5178	155	82/06/04	1549:45	1550:15	77	70			2		
* 5179	155	82/06/04	1731:15	1731:41	57	69			2		
* 5180	155	82/06/04	1740:05	1741:45	153	127	1787		4	167, 5	
* 5181	155	82/06/04	1902:34	1903:22	65	64			2		
* 5182	155	82/06/04	1912:16	1917:51	898	1497	1.44E+05		13	167, 6	M1
* 5183	155	82/06/04	2024:49	2029:39	780	135	15752		2	167, 7	
* 5184	155	82/06/04	2217:04	2217:16	19	72			2		
* 5185	155	82/06/04	2241:46	2242:11	174	68			2		
* 5186	155	82/06/04	2246:06	2246:26	51	71			2		
* 5187	156	82/06/05	0014:44	0016:41	168	79			2		
* 5188	156	82/06/05	0027:39	0028:23	72	169	4047		2	167, 8	
* 5189	156	82/06/05	0124:26	0128:54	1141	18017	1.04E+06		12	167, 9	M1,DG
* 5190	156	82/06/05	0245:40	0249:11	732	470	55170		2	167, 10	
* 5191	156	82/06/05	0306:36	0315:13	1868	2843	8.32E+05		3	167, 10	M1,EN
* 5192	156	82/06/05	0613:31	0616:07	2120	20434	3.02E+06		12	167, 11	M1,EN
* 5193	156	82/06/05	0741:34	0741:50	172	97			2		
* 5194	156	82/06/05	0751:46	0752:36	90	70			2		
* 5195	156	82/06/05	0956:46	0957:43	160	3344			2	167, 12	
* 5196	156	82/06/05	1239:36	1240:24	201	122	2959		2	167, 13	
* 5197	156	82/06/05	1423:49	1428:54	612	209	10794		2	167, 14	
* 5198	156	82/06/05	1441:37	1441:45	47	67			2		
* 5199	156	82/06/05	1519:25	1529:18	1520	10152	1.39E+06		5	167, 15	M1
* 5200	156	82/06/05	1549:30	1549:47	44	460	3100		3	167, 15	
* 5201	156	82/06/05	1552:14	1553:56	296	1121	29249		4	167, 15	
* 5202	156	82/06/05	1707:41	1708:13	55	79			2		
* 5203	156	82/06/05	1720:39	1722:10	299	247	10585		2	167, 16	
* 5204	156	82/06/05	1727:21	1729:25	298	108	8375		2	167, 16	
* 5205	156	82/06/05	1737:57	1739:14	214	166	9545		2	167, 10	SG
* 5206	156	82/06/05	1751:04	1751:59	142	98			2		

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HRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
* 5207	156	82/06/05	2004:28	2010:00	820	466	1.37E+05		2	168, 1	SN, DG
* 5208	156	82/06/05	2044:16	2049:07	435	472	33358		2	168, 1	EG
* 5209	157	82/06/06	0253:51	0255:04	175	68			2		
* 5210	157	82/06/06	0256:56	0257:38	156	66			2		
* 5211	157	82/06/06	0305:37	0307:40	382	368	30423		2	168, 2	
* 5212	157	82/06/06	0620:29	0620:52	90	84			2		
* 5213	157	82/06/06	0912:19	0912:28	30	70			2		
* 5214	157	82/06/06	1104:03	1104:56	173	142	3415		2	168, 3	
* 5215	157	82/06/06	1249:29	1249:51	81	79			2		
* 5216	157	82/06/06	1328:59	1332:34	427	190	17148		2	168, 4	SN, ES
* 5217	157	82/06/06	1419:41	1422:39	501	2681	2.47E+05		4	168, 5	M1, EN
* 5218	157	82/06/06	1506:02	1506:44	62	82			2		
* 5219	157	82/06/06	1513:18	1513:31	49	65			2		
* 5220	157	82/06/06	1636:48	1639:21	3691	60382	1.40E+07		9	168, 6	M1, SN, EN
* 5221	157	82/06/06	1814:06	1814:44	39	495	11829		7	168, 7	EG
* 5222	157	82/06/06	2158:37	2159:08	109	267	3748		3	168, 8	
* 5223	157	82/06/06	2205:07	2206:20	234	79	2199		2	168, 8	
* 5224	157	82/06/06	2302:04	2302:11	67	79			2		
* 5225	157	82/06/06	2344:20	2345:26	213	44	1294		2	168, 9	
* 5226	158	82/06/07	0851:04	0851:29	51	118	809		2	168, 10	
* 5227	158	82/06/07	1030:22	1031:07	72	81			2		
* 5228	158	82/06/07	1314:00	1314:03	191	81			2		
* 5229	158	82/06/07	1337:30	1344:54	877	385	46573		2	168, 11	SN
* 5230	158	82/06/07	1522:25	1522:36	37	59			2		
* 5231	158	82/06/07	2327:58	2331:05	444	82	4237		3	168, 12	
* 5232	159	82/06/08	0352:40	0353:01	58	64			2		
* 5233	159	82/06/08	0540:16	0540:33	32	87			2		
* 5234	159	82/06/08	0550:15	0550:57	198	193	6743		2	168, 13	
* 5235	159	82/06/08	1213:54	1214:35	68	218	3241		4	168, 14	
* 5236	159	82/06/08	2000:32	2002:16	259	1517	86927		10	168, 15	ND
* 5237	159	82/06/08	2008:37	2009:13	89	82			3		
* 5238	160	82/06/09	0321:55	0322:30	93	81			2		
* 5239	160	82/06/09	1029:37	1029:57	112	101	1257		2	168, 16	
* 5240	160	82/06/09	1134:53	1136:34	253	528	26617		2	169, 1	
* 5241	160	82/06/09	1200:51	1201:38	135	60			2		
* 5410	160	82/06/09	1948:08	1949:58	818	1037	1.44E+05		5	173, 15	M1
* 5242	160	82/06/09	2220:52	2223:17	417	1032	72131		4	169, 2	
* 5243	160	82/06/09	2232:34	2235:49	295	278	6284		3	169, 2	
* 5244	160	82/06/09	2242:25	2249:20	1700	316	94761		2	169, 2	SG
* 5245	161	82/06/10	0027:12	0027:46	66	138	1514		2	169, 3	
* 5246	161	82/06/10	0214:09	0214:55	186	479	12533		2	169, 4	
* 5247	161	82/06/10	0332:04	0333:54	110	60			2		
* 5248	161	82/06/10	0504:53	0505:19	79	82			2		
* 5249	161	82/06/10	1848:38	1851:56	243	147	4027		3	169, 5	
* 5250	161	82/06/10	1931:06	1940:25	919	120	9784		2	169, 6	ND
* 5251	161	82/06/10	2249:08	2250:10	152	65			2		
* 5252	162	82/06/11	0431:50	0432:06	57	83			2		
* 5253	162	82/06/11	0639:11	0645:39	713	708	1.45E+05		3	169, 7	
* 5254	162	82/06/11	0940:37	0941:32	123	69			2		
* 5255	162	82/06/11	0952:50	0953:18	40	88			2		
* 5256	162	82/06/11	1108:55	1109:23	140	830	22377		4	169, 8	
* 5257	162	82/06/11	1130:02	1131:05	112	113	2855		2	169, 9	
* 5258	162	82/06/11	1723:22	1724:16	135	86			2		

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HXRBS EVENT	DOY	STAPT DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
* 5259	162	82/06/11	1836:23	1842:44	753	97	7973		2	169, 10	
* 5260	162	82/06/11	1854:38	1855:45	154	96			2		
* 5261	162	82/06/11	2009:17	2009:30	40	66			2		
* 5262	162	82/06/11	2021:11	2021:28	32	72			2		
* 5263	162	82/06/11	2054:04	2054:09	40	62			2		
* 5264	162	82/06/11	2155:33	2156:25	101	72			2		
* 5265	162	82/06/11	2203:41	2205:08	197	160	2141		2	169, 11	
* 5266	162	82/06/11	2225:50	2226:13	79	74			2		
* 5267	162	82/06/11	2239:23	2240:06	63	60			2		
* 5268	163	82/06/12	0143:52	0144:33	81	122	2121		2	169, 12	
* 5269	163	82/06/12	0149:55	0150:31	58	324	6087		3		
* 5270	163	82/06/12	0228:11	0228:46	523	367	20536		4	169, 13	SN
* 5271	163	82/06/12	0245:22	0247:59	257	1456	52130		8	169, 13	
* 5272	163	82/06/12	0436:23	0436:53	51	88			2		
* 5273	163	82/06/12	0439:51	0440:05	148	84			2		
* 5274	163	82/06/12	0545:45	0545:57	1753	489	2.09E+05		2	169, 14	
* 5275	163	82/06/12	0738:45	0739:09	54	73			2		
* 5276	163	82/06/12	1037:15	1038:36	368	93	7604		2	169, 15	SN
* 5277	163	82/06/12	1053:22	1054:02	54	71			2		
* 5278	163	82/06/12	1101:01	1101:16	76	69			2		
* 5279	163	82/06/12	1110:24	1112:39	612	2174	1.94E+05		7	169, 15	
* 5280	163	82/06/12	1736:14	1737:39	279	647	30013		5	169, 16	
* 5281	163	82/06/12	1817:58	1819:34	1583	392	75384		2	170, 1	
* 5282	163	82/06/12	1846:34	1855:57	1372	906	1.78E+05		5	170, 1	
* 5283	163	82/06/12	2000:56	2001:49	70	109	668		2	170, 2	
* 5284	163	82/06/12	2015:49	2016:00	27	457	4049		5	170, 3	
* 5285	163	82/06/12	2026:56	2029:43	335	76	3192		2	170, 4	
* 5286	163	82/06/12	2042:45	2042:52	40	79			2		
* 5287	163	82/06/12	2046:46	2047:21	75	75			2	170, 5	
* 5288	163	82/06/12	2148:10	2148:42	56	112	768		2	170, 5	
* 5289	163	82/06/12	2158:35	2159:59	100	99			2		
* 5290	163	82/06/12	2318:48	2319:19	81	129	1977		2	170, 6	
* 5291	163	82/06/12	2322:51	2324:41	167	121	2036		2	170, 6	
* 5292	164	82/06/13	0254:18	0254:23	17	187	340		2	170, 7	
* 5293	164	82/06/13	0256:54	0257:04	88	72			2		
* 5294	164	82/06/13	0259:32	0259:51	133	78			2		
* 5295	164	82/06/13	0529:06	0530:43	360	125	5717		2	170, 8	SN
* 5296	164	82/06/13	0733:43	0734:15	57	86			2		
* 5297	164	82/06/13	0735:32	0736:37	88	119			2	170, 9	ND
* 5298	164	82/06/13	0927:19	0929:22	182	93			2		
* 5299	164	82/06/13	1210:51	1211:25	114	71			2		
* 5300	164	82/06/13	1400:48	1401:09	71	71			2		
* 5301	164	82/06/13	1405:46	1406:39	108	206	2674		5	170, 10	
* 5302	164	82/06/13	1545:07	1545:54	91	73			2		
* 5303	164	82/06/13	1652:35	1653:23	84	65			2		
* 5304	164	82/06/13	1700:43	1701:10	59	405	7612		4	170, 11	
* 5305	164	82/06/13	1815:30	1818:13	1105	2300	2.64E+05		10	170, 12	
* 5306	164	82/06/13	1941:59	1942:53	92	357	7257		4	170, 13	
* 5307	164	82/06/13	1945:43	1946:00	45	60			2		
* 5308	164	82/06/13	1948:16	1950:44	192	78			2		
* 5309	164	82/06/13	2003:41	2004:02	146	229	6127		2	170, 14	
* 5310	164	82/06/13	2119:44	2119:59	37	100			2		
* 5311	164	82/06/13	2129:45	2146:44	2146	2619	4.91E+05		7	170, 15	ES



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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
* 5312	164	82/06/13	2310:19	2335:59	1960	1359	2.03E+05		7	170, 16	ES
* 5313	165	82/06/14	0026:57	0030:08	269	224	7726		4	171, 1	
* 5314	165	82/06/14	0101:53	0104:50	286	127	5026		2	171, 2	
* 5315	165	82/06/14	0115:06	0116:02	133	90			2		
* 5316	165	82/06/14	0154:24	0154:24	106	95			3		SN
* 5317	165	82/06/14	0207:11	0207:29	102	127	1717		3	171, 3	
* 5318	165	82/06/14	0338:41	0338:45	88	261	2801		4	171, 4	
* 5319	165	82/06/14	0347:38	0348:28	60	85			2		
* 5320	165	82/06/14	0422:52	0423:40	164	1223	26319		5	171, 5	DG,ND
* 5321	165	82/06/14	0511:44	0511:57	571	103	8243		2	171, 6	SA,AX
* 5322	165	82/06/14	0559:38	0559:57	43	127	450		2	171, 7	
* 5323	165	82/06/14	0711:10	0711:22	40	92			2		
* 5324	165	82/06/14	0731:11	0731:36	163	69			2		
* 5325	165	82/06/14	0737:57	0738:21	52	85			2		
* 5326	165	82/06/14	0847:52	0848:11	26	98			2		
* 5327	165	82/06/14	0914:36	0914:54	28	590	3998		5	171, 8	
* 5328	165	82/06/14	1020:26	1020:34	80	86			2		
* 5329	165	82/06/14	1023:09	1023:23	67	76			2		
* 5330	165	82/06/14	1152:35	1153:28	127	77			2		
* 5331	165	82/06/14	1306:48	1309:10	892	857	1.17E+05		7	171, 9	
* 5332	165	82/06/14	1355:50	1356:00	42	68			2		
* 5333	165	82/06/14	1439:26	1441:45	508	410	37797		4	171, 10	
* 5334	165	82/06/14	1456:30	1456:38	25	196	835		4	171, 10	
* 5335	165	82/06/14	1459:01	1500:05	181	77			2		
* 5336	165	82/06/14	1523:59	1524:17	41	73			2		
* 5337	165	82/06/14	1532:26	1532:39	24	232	112		3	171, 11	
* 5338	165	82/06/14	1628:08	1628:42	61	279	3473		3	171, 12	
* 5339	165	82/06/14	1705:56	1706:06	42	332	2241		5	171, 13	
* 5340	165	82/06/14	1814:42	1817:11	435	582	62144		3	171, 14	
* 5341	165	82/06/14	1826:45	1828:28	171	126	4242		2	171, 14	
* 5342	165	82/06/14	1950:11	1951:18	200	98			5		AX
* 5343	165	82/06/14	2106:27	2113:11	733	111	17741		2	171, 15	
* 5344	166	82/06/15	0030:10	0030:40	1014	25304	8.50E+05		15	172, 1	M5
* 5345	166	82/06/15	0147:01	0154:30	595	149	10310		2	172, 2	
* 5346	166	82/06/15	0217:46	0220:00	1319	3478	1.07E+06		4	172, 2	M5,EN
* 5347	166	82/06/15	0325:00	0326:53	751	130	1.67E+05		2	172, 3	
* 5348	166	82/06/15	0356:11	0356:23	33	96			2		
* 5349	166	82/06/15	0711:38	0712:10	89	87			2		
* 5350	166	82/06/15	0810:16	0813:28	1219	726	2.13E+05		5	172, 4	SA
* 5351	166	82/06/15	0844:23	0844:44	53	81			2		
* 5352	166	82/06/15	0850:35	0850:50	107	81			2		
* 5353	166	82/06/15	1444:38	1444:58	30	70			2		
* 5354	166	82/06/15	1446:27	1447:37	140	97			2		
* 5355	166	82/06/15	1451:11	1451:48	92	67			2		
* 5356	166	82/06/15	1508:18	1512:39	621	20609	1.81E+06		15	172, 5	
* 5357	166	82/06/15	1755:58	1757:00	168	64			3		AX
* 5358	166	82/06/15	1934:32	1935:37	144	71			4		AX
* 5359	166	82/06/15	2057:20	2101:50	765	782	1.32E+05		3	172, 6	
* 5360	166	82/06/15	2241:14	2241:36	57	85			2		
* 5361	167	82/06/16	0035:06	0035:17	33	181	664		3	172, 7	
* 5362	167	82/06/16	0043:21	0043:28	94	70			2		
* 5363	167	82/06/16	0158:11	0158:20	23	220	1291		2	172, 8	
* 5364	167	82/06/16	0207:29	0212:27	1016	9983	3.19E+06		7	172, 8	EN

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* 5365	167	82/06/16	0300:47	0301:00	159	96			2		DG, SN
* 5366	167	82/06/16	0346:45	0346:52	21	72			2		
* 5367	167	82/06/16	0501:32	0504:07	217	139	6899		2	172, 9	
* 5368	167	82/06/16	0620:14	0620:20	72	116	1012		2	172, 10	
* 5369	167	82/06/16	0944:44	0944:56	24	61			2		
* 5370	167	82/06/16	1637:28	1639:06	102	90			2		EN
* 5371	167	82/06/16	2028:00	2032:20	1309	878	1.21E+05		8	172, 11	
* 5372	167	82/06/16	2102:48	2103:45	174	75			2		
* 5373	167	82/06/16	2335:33	2335:48	221	297	20859		2	172, 12	SN
* 5374	168	82/06/17	0245:27	0245:43	461	2228	1.52E+05		5	172, 13	SN
* 5375	168	82/06/17	1048:19	1051:20	621	13904	1.02E+06		10	172, 14	M5
* 5376	168	82/06/17	1101:49	1102:02	39	160	1773		2	172, 14	
* 5377	168	82/06/17	1105:45	1106:19	70	204	3827		2	172, 14	
* 5378	168	82/06/17	1114:00	1114:45	138	62			2		
* 5379	168	82/06/17	1307:18	1307:50	80	1170	13793		4	172, 15	M5
* 5380	168	82/06/17	1312:40	1313:24	71	62			2		
* 5381	168	82/06/17	1408:47	1409:09	38	66			2		
* 5382	168	82/06/17	1411:24	1411:53	70	77			2		
* 5383	168	82/06/17	1545:29	1546:58	108	64			2		
* 5384	168	82/06/17	1609:49	1610:18	69	98			2		
* 5385	168	82/06/17	1616:17	1616:31	35	73			2		
* 5386	168	82/06/17	1621:20	1622:33	151	141	5178		2	172, 16	
* 5387	168	82/06/17	1719:10	1719:25	48	76			2		
* 5388	168	82/06/17	1749:53	1749:59	17	76			2		
* 5389	168	82/06/17	1835:13	1835:30	124	579	14230		5	173, 1	
* 5390	168	82/06/17	1849:48	1851:56	200	110	4095		2	173, 2	
* 5391	168	82/06/17	1900:40	1901:43	145	82			2		
* 5392	168	82/06/17	2027:01	2027:22	46	277	1928		2	173, 3	M5
* 5394	169	82/06/18	0940:38	0948:45	38	124	1032		2	173, 6	
* 5395	169	82/06/18	0945:36	0947:08	177	378	26694		4	173, 6	
* 5396	169	82/06/18	1042:00	1042:09	30	79			2		
* 5397	169	82/06/18	1101:54	1103:52	548	1520	36526		5	173, 7	M5
* 5398	169	82/06/18	1214:17	1214:40	64	89			2		
* 5399	169	82/06/18	1659:04	1659:40	171	122	2846		2	173, 8	
* 5400	169	82/06/18	2136:42	2140:29	735	324	15420		5	173, 9	DG
* 5401	170	82/06/19	0046:36	0048:57	277	596	25363		4	173, 10	M5
* 5402	170	82/06/19	0107:25	0107:38	24	66			2		
* 5403	170	82/06/19	1102:59	1103:33	60	423	4593		4	173, 12	
* 5432	170	82/06/19	1324:41	1325:30	120	68			2		
* 5433	170	82/06/19	1332:05	1333:07	136	100			4		
* 5404	170	82/06/19	1510:36	1511:58	153	94			4		
* 5405	170	82/06/19	1517:01	1518:31	134	67			2		
* 5406	170	82/06/19	1526:02	1526:16	37	82			2		
* 5407	170	82/06/19	1641:45	1642:43	165	70			2		
* 5408	170	82/06/19	1716:47	1717:30	132	965	16631		4	173, 13	ES
* 5409	170	82/06/19	1816:13	1816:57	91	191	2503		3	173, 14	
* 5411	171	82/06/20	0024:17	0024:54	195	129	3532		2	173, 16	
* 5412	171	82/06/20	0046:50	0047:28	58	71			2		
* 5413	171	82/06/20	0105:15	0105:33	39	69			2		
* 5414	171	82/06/20	0112:55	0113:32	411	13670	1.48E+05		10	174, 1	M5
* 5415	171	82/06/20	0159:22	0201:10	1533	979	1.77E+05		3	174, 2	SN, DG
* 5416	171	82/06/20	0252:10	0253:00	137	114	2990		2	174, 2	
* 5417	171	82/06/20	0359:33	0403:06	330	5750	1.04E+05		8	174, 3	M5

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* 5418	171	82/06/20	0533:25	0533:56	16	73			2		
* 5419	171	82/06/20	1159:40	1200:15	588	6122	1.27E+05		8	174, 5	
* 5420	171	82/06/20	1314:49	1315:42	110	70			4		
* 5421	171	82/06/20	1453:19	1454:16	156	100			4		
* 5422	171	82/06/20	1458:46	1459:15	80	70			2		
* 5423	171	82/06/20	1529:29	1532:32	412	98	4546		4	174, 6	AX
* 5424	171	82/06/20	1632:30	1632:37	154	67			2		
* 5425	171	82/06/20	1936:44	1637:00	38	79			2		
* 5426	171	82/06/20	2233:52	2234:12	775	216	24245		2	174, 7	
* 5427	172	82/06/21	0234:25	0234:44	55	64			2		
* 5428	172	82/06/21	0238:26	0239:53	112	60			2		
* 5429	172	82/06/21	0324:26	0325:31	173	88			2		
* 5430	172	82/06/21	0348:22	0351:13	279	163	7716		2	174, 8	
* 5431	172	82/06/21	0355:26	0355:43	159	73			2		
* 5434	172	82/06/21	1115:56	1116:19	679	114			2	174, 9	SG, EG
* 5435	172	82/06/21	1610:11	1614:53	505	794	1.15E+05		5	174, 10	SG
* 5436	172	82/06/21	1752:20	1754:53	187	84			2		
* 5437	172	82/06/21	1800:21	1800:40	60	81			2		DG
* 5438	172	82/06/21	1808:21	1808:32	57	98			2		
* 5439	173	82/06/22	1421:28	1433:29	1243	360	1.09E+05		2	174, 11	EG
5440	173	82/06/22	1723:22	1724:12	83	88			2		
5441	174	82/06/23	0005:13	0005:33	330	1708	70548		4	174, 12	M5
5442	174	82/06/23	0328:36	0329:30	124	87			2		
5443	174	82/06/23	0338:18	0338:55	286	182	5611		2	174, 13	
5444	174	82/06/23	0443:26	0443:30	39	75			2		
5445	174	82/06/23	0634:42	0652:42	1284	414	6.10E+05		2	174, 14	ND
5446	174	82/06/23	1003:24	1003:42	53	286	2955		4	174, 15	
5447	174	82/06/23	1046:00	1046:11	210	27	1484		4	174, 16	
5448	174	82/06/23	1116:24	1116:51	71	67			2		
5449	174	82/06/23	1402:33	1404:13	478	100	9331		10	175, 1	AX
5450	174	82/06/23	1433:53	1434:03	35	99			2		
5451	174	82/06/23	1545:39	1546:23	154	78			2		
5452	174	82/06/23	1549:37	1549:44	14	72			2		
5453	174	82/06/23	1716:04	1716:18	45	113	960		2	175, 2	
5454	174	82/06/23	1856:40	1857:25	89	367	7580		5	175, 3	
5455	174	82/06/23	1902:43	1905:52	632	268	41232		2	175, 3	
5456	174	82/06/23	2052:25	2025:45	92	75			2		
5457	174	82/06/23	2329:03	2331:10	557	1041	98505		8	175, 4	M5
5458	175	82/06/24	0232:31	0232:51	111	100			2		
5459	175	82/06/24	0303:26	0303:43	70	78			2		
5460	175	82/06/24	0307:39	0308:15	102	105	1376		2	175, 6	
5461	175	82/06/24	0744:27	0745:54	102	69			2		
5462	175	82/06/24	1352:36	1353:35	121	74			2		
5463	175	82/06/24	1839:26	1840:14	86	71			2		
5464	175	82/06/24	2155:45	2156:13	40	72			2		
5465	175	82/06/24	2304:28	2310:05	998	115	10271		2	175, 7	
5466	176	82/06/25	0530:12	0531:14	163	109	4164		2	175, 8	
5467	176	82/06/25	0543:11	0535:10	119	187	2417		3	175, 8	
5468	176	82/06/25	1041:33	1042:16	80	60			2		
5469	176	82/06/25	1045:41	1046:34	284	463	28711		5	175, 9	
5470	176	82/06/25	1655:26	1656:11	104	77			2		
5471	176	82/06/25	1943:28	1944:57	162	1276	59937		5	175, 10	
5472	176	82/06/25	2131:08	2134:18	1537	7791	1.27E+06		13	175, 11	M5

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5473	177	82/06/26	0042:57	0046:22	1821	8678	2.48E+06		10	175, 12	MS
5474	177	82/06/26	0205:49	0208:12	190	385	23914		5	175, 13	ND, DG
5475	177	82/06/26	1453:06	1455:18	402	87	5682		4	175, 14	AX
5476	177	82/06/26	1925:00	1926:24	1062	263	66999		2	175, 15	SN
5477	178	82/06/27	0711:27	0711:44	74	92			2		
5478	186	82/07/05	0609:41	0610:33	65	55			13		
5479	186	82/07/05	2223:49	2224:04	37	66			2		
5481	190	82/07/09	0856:11	0856:28	35	166			2		
5482	190	82/07/09	1347:57	1348:13	40	102	709		2	176, 1	
5483	190	82/07/09	1528:36	1530:16	309	262	13625		2	176, 2	
5484	190	82/07/09	1617:53	1619:24	380	574	36988		3	176, 3	
5485	190	82/07/09	1703:34	1703:58	63	85			2		
5486	190	82/07/09	1838:42	1839:46	391	139	7678		2	176, 4	
5487	190	82/07/09	2013:22	2017:40	616	451	20394		4	176, 5	SG
5488	190	82/07/09	2052:17	2052:44	186	161	3279		2	176, 6	
5489	190	82/07/09	2056:34	2057:08	117	96			2	176, 6	
5490	190	82/07/09	2105:38	2107:01	529	57078	1.19E+06		15	176, 6	MS
5491	190	82/07/09	2116:39	2117:44	103	74			2	176, 6	
5492	190	82/07/09	2120:12	2120:43	106	60			2	176, 6	
5493	190	82/07/09	2128:25	2130:39	183	96			2	176, 6	
5494	190	82/07/09	2148:26	2148:53	77	188	2949		2	176, 6	
5495	190	82/07/09	2239:10	2251:21	1064	1283	1.64E+05		9	176, 7	MS
5496	190	82/07/09	2303:01	2304:09	285	1200	58186		4	176, 7	
5497	190	82/07/09	2324:00	2324:17	45	56			2	176, 7	
5498	190	82/07/09	2326:27	2326:44	46	106	638		2	176, 7	
5499	191	82/07/10	0018:40	0018:13	73	160			2		
5500	191	82/07/10	0022:42	0029:05	666	163	9621		2	176, 8	
5501	191	82/07/10	0035:56	0036:55	180	524	11540		3	176, 8	
5502	191	82/07/10	0135:22	0138:09	959	1145	2.11E+05		8	176, 9	MS
5503	191	82/07/10	0158:04	0200:21	596	5979	4.00E+05		8	176, 9	
5504	191	82/07/10	0315:50	0317:03	340	6260	81619		11	176, 11	MS
5505	191	82/07/10	0407:46	0408:26	315	1369	31064		8	176, 12	
5506	191	82/07/10	0446:52	0447:03	21	73			2		
5507	191	82/07/10	0517:04	0518:25	121	73			2		
5508	191	82/07/10	0534:59	0535:34	124	62			2		
5509	191	82/07/10	0547:52	0548:01	104	95			2		ND
5510	191	82/07/10	1006:16	1015:48	703	3360	1.35E+05		4	176, 13	MS, SA
5511	191	82/07/10	1020:43	1022:07	99	113	1254		2	176, 13	
5512	191	82/07/10	1108:04	1108:11	28	100			2		
5513	191	82/07/10	1111:37	1111:45	14	76			2		
5514	191	82/07/10	1146:57	1147:39	67	123	1052		2	176, 14	
5515	191	82/07/10	1150:29	1150:50	66	61			2	176, 14	
5516	191	82/07/10	1153:23	1156:33	190	70			2	176, 14	
5517	191	82/07/10	1158:38	1200:05	263	603	17255		4	176, 14	
5518	191	82/07/10	1241:04	1241:41	74	71			2		
5519	191	82/07/10	1340:53	1341:12	31	172	422		2	176, 15	
5520	191	82/07/10	1504:04	1504:36	85	107	584		2	176, 16	
5521	191	82/07/10	1509:24	1509:49	111	303	7594		2	176, 16	
5522	191	82/07/10	1603:53	1604:11	155	134	3595		3	177, 1	
5523	191	82/07/10	1611:24	1612:05	137	151	2766		2	177, 1	
5524	191	82/07/10	1641:32	1643:18	896	789	70307		5	177, 2	SA, EN
5525	191	82/07/10	1823:45	1824:08	34	97			2		
5526	191	82/07/10	1901:19	1902:06	200	77			2		

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5527	191	82/07/10	1905:56	1906:17	35	66			2		
5528	191	82/07/10	2001:47	2002:32	249	354	15139		2	177, 3	
5529	191	82/07/10	2212:10	2215:25	560	115	11056		2	177, 4	
5530	191	82/07/10	2237:26	2239:25	266	129	2578		2	177, 4	
5531	191	82/07/10	2244:38	2248:38	316	133	3135		2	177, 4	
5532	191	82/07/10	2252:07	2252:26	103	67			2		
5533	191	82/07/10	2258:52	2259:57	120	66			2		
5534	191	82/07/10	2313:06	2313:40	93	69			2		
5535	192	82/07/11	0008:15	0008:32	37	69			2		
5536	192	82/07/11	0012:53	0013:25	44	69			2		
5537	192	82/07/11	0125:28	0131:36	442	128	4604		5	177, 5	
5538	192	82/07/11	0205:40	0207:42	1053	550	33917		7	177, 6	
5539	192	82/07/11	0327:58	0328:17	52	270	4583		3	177, 7	
5540	192	82/07/11	0337:38	0338:09	146	824	12112		4	177, 8	
5541	192	82/07/11	0341:01	0341:17	33	97			2		
5542	192	82/07/11	0443:31	0445:21	255	573	25097		3	177, 9	
5543	192	82/07/11	0527:42	0530:23	523	109	11249		2	177, 10	
5544	192	82/07/11	0614:58	0621:09	533	233	14951		5	177, 11	
5545	192	82/07/11	0636:35	0637:12	388	974	29810		10	177, 11	
5546	192	82/07/11	0700:21	0700:47	211	302	5101		5	177, 12	
5547	192	82/07/11	0708:06	0708:52	108	58			2		
5548	192	82/07/11	0810:48	0812:59	436	698	66284		7	177, 13	
5549	192	82/07/11	0823:51	0824:26	95	70			2		
5550	192	82/07/11	0826:56	0827:39	94	88			2		
5551	192	82/07/11	0953:39	0955:03	196	183	7033		2	177, 14	
5552	192	82/07/11	1326:21	1326:34	18	63			2		
5553	192	82/07/11	1401:29	1402:01	397	5290	1.99E+05		7	177, 15	M5, SN
5554	192	82/07/11	1413:08	1413:36	47	90			2	177, 15	
5555	192	82/07/11	1447:42	1448:01	41	69			2		
5556	192	82/07/11	1448:55	1449:21	54	91			3		
5557	192	82/07/11	1452:37	1453:23	88	80			2		
5558	192	82/07/11	1454:29	1455:39	149	75			2		
5559	192	82/07/11	1630:20	1631:04	69	71			2		
5560	192	82/07/11	1641:04	1641:19	39	71			2		
5561	192	82/07/11	1711:49	1712:13	93	120	2748		2	178, 2	
5562	192	82/07/11	1814:05	1814:58	152	108	3327		3	178, 3	
5563	192	82/07/11	1848:46	1852:45	538	241	26895		2	178, 4	
5564	192	82/07/11	1908:50	1910:44	281	202	8130		3	178, 4	
5566	192	82/07/11	2158:33	2208:25	665	130	10865		2	178, 5	
5565	192	82/07/11	2158:40	2159:21	62	58			2		
5567	192	82/07/11	2211:07	2212:43	239	316	10887		2	178, 5	
5568	192	82/07/11	2230:24	2231:08	160	201	4329		3	178, 6	
5569	192	82/07/11	2331:31	2332:23	1527	220	40511		2	178, 7	SN
5570	193	82/07/12	0015:40	0016:29	100	57			2		
5571	193	82/07/12	0025:39	0026:35	94	71			2		
5572	193	82/07/12	0113:30	0114:18	90	59			2		
5573	193	82/07/12	0246:09	0246:28	55	62			2		
5574	193	82/07/12	0253:14	0253:57	104	70			2		
5575	193	82/07/12	0310:05	0310:34	762	1686	1.50E+05		5	178, 8	M5
5576	193	82/07/12	0607:06	0621:38	3000	439	1.83E+05		2	178, 9	SA
5577	193	82/07/12	0755:27	0755:45	52	59			2		
5578	193	82/07/12	0757:35	0758:21	71	68			2		
5579	193	82/07/12	0813:37	0817:51	542	162	1709		3	178, 10	

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5580	193	82/07/12	0932:36	0945:57	7741	58007	4.10E+07		13	178, 11	MS,SA,EN
5581	193	82/07/12	1212:12	1212:37	70	66			2		
5582	193	82/07/12	1444:15	1444:45	112	157	1960		2	178, 12	
5583	193	82/07/12	1530:56	1531:17	42	929	9804		7	178, 13	MS
5584	193	82/07/12	2028:27	2029:34	182	74			2		
5585	193	82/07/12	2034:35	2035:33	162	90			2		
5586	193	82/07/12	2039:52	2041:36	1050	2195	1.82E+05		8	178, 15	MS
5587	193	82/07/12	2224:36	2225:21	114	29			2		
5588	193	82/07/12	2231:11	2231:22	19	106	293		2		
5589	193	82/07/12	2345:18	2345:49	113	121	2615		2	178, 16	
5590	194	82/07/13	0103:57	0104:25	64	86			2		
5596	194	82/07/13	113:02	1115:30	203	136	48739		2	179, 4	NO, DG
5591	194	82/07/13	0227:09	0229:03	676	155	14716		2	179, 1	
5592	194	82/07/13	0259:31	0300:05	121	113	1619		2	179, 1	
5593	194	82/07/13	0638:00	0638:12	25	210	848		4	179, 2	
5594	194	82/07/13	0944:52	0948:09	387	130	11429		2	179, 3	EN
5595	194	82/07/13	1105:28	1105:29	42	61			2		
5597	194	82/07/13	1412:14	1412:14	985	171	21375		2	179, 5	SA
5598	194	82/07/13	1515:50	1516:03	33	77			2		
5599	194	82/07/13	1642:53	1643:08	42	54			2		
5600	194	82/07/13	2144:29	2145:00	42	76			2		
5601	194	82/07/13	2145:50	2146:25	142	64			2		
5602	195	82/07/14	1230:09	1231:27	116	125	3469		2	179, 6	
5603	195	82/07/14	1317:35	1318:28	143	73			2		
5604	195	82/07/14	1323:11	1324:22	175	72			2		EN
5605	195	82/07/14	1404:30	1405:25	170	89			2		
5606	195	82/07/14	1453:12	1459:54	833	479	1.57E+05		2	179, 7	SN,ES
5607	195	82/07/14	1543:39	1544:11	63	127	1632		2	179, 7	
5608	195	82/07/14	1551:30	1552:12	48	79			2		
5609	195	82/07/14	1714:58	1715:31	196	59			2		
5610	195	82/07/14	1721:53	1722:23	124	87			2		
5611	195	82/07/14	1727:34	1730:13	180	134	6383		2	179, 8	EN
5612	195	82/07/14	1847:32	1847:41	57	94			2		
5613	195	82/07/14	1955:22	1956:08	56	61			2		
5614	195	82/07/14	2007:43	2008:04	34	97			2		
5615	195	82/07/14	2008:37	2009:15	109	243	4199		3	179, 9	
5616	195	82/07/14	2017:37	2018:30	120	69			5		AX
5617	195	82/07/14	2121:10	2121:23	74	69			5		
5618	195	82/07/14	2128:42	2129:14	48	68			2		
5619	195	82/07/14	2133:32	2133:41	20	231	594		4	179, 10	
5620	196	82/07/15	0052:35	0053:24	71	77			2		
5621	196	82/07/15	0211:15	0211:20	108	139	1297		3	179, 11	
5622	196	82/07/15	0218:09	0223:29	2658	623	3.18E+05		3	179, 11	EN,AX
5623	196	82/07/15	0333:03	0338:27	1940	490	73485		4	179, 12	AX
5624	196	82/07/15	0409:55	0416:18	600	92	10135		2	179, 12	
5625	196	82/07/15	0542:48	0544:02	86	76			2		
5626	196	82/07/15	0600:35	0600:53	27	58			2		
5627	196	82/07/15	0917:18	0919:12	173	82			2		
5628	196	82/07/15	1228:43	1229:49	78	70			2		
5629	196	82/07/15	1620:06	1620:53	59	87			2		
5630	196	82/07/15	1754:09	1756:35	152	61			2		
5631	196	82/07/15	1840:26	1840:40	97	129	3504		2	179, 13	
5632	196	82/07/15	2139:52	2140:40	179	62			4		

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5633	197	82/07/16	0022:38	0024:16	1072	554	1.24E+05		3	179, 14	
5634	197	82/07/16	0320:46	0322:13	501	2178	51983		7	179, 15	M5, SA
5635	197	82/07/16	0401:54	0402:31	68	82			2		
5636	197	82/07/16	0653:34	0654:28	141	71			2		
5637	197	82/07/16	0856:22	0857:00	67	57			2		
5638	197	82/07/16	0858:31	0901:58	352	173	22005		2	179, 16	
5639	197	82/07/16	2220:06	2222:55	799	1968	3.67E+05		9	180, 1	M5
5640	197	82/07/16	2352:47	2354:28	1292		1.96E+05		5	180, 3	
5641	198	82/07/17	0134:33	0135:04	65	73			2		
5642	198	82/07/17	0139:21	0141:03	145	63			2		
5643	198	82/07/17	0202:13	0205:51	1189	21000	1.84E+06		9	180, 4	
5644	198	82/07/17	0706:35	0710:37	517	163	9477		5	180, 5	
5645	198	82/07/17	1004:19	1006:11	259	308	8444		3	180, 6	
5646	198	82/07/17	1306:23	1306:36	155	95			2		
5647	198	82/07/17	1316:58	1317:35	130	79			2		
5648	198	82/07/17	2030:01	2031:03	374	358	32355		9	180, 7	
5649	198	82/07/17	2055:29	2056:04	35	67			2		
5650	198	82/07/17	2105:52	2107:28	187	66			4		
5651	198	82/07/17	2124:19	2124:51	112	120	1926		2	180, 8	
5652	198	82/07/17	2204:06	2207:03	750	666	1.45E+05		7	180, 9	
5666	199	82/07/18	0018:37	0019:21	141	383	11266		3	180, 15	
5653	199	82/07/18	0318:44	0319:15	56	59			2		
5654	199	82/07/18	0321:00	0321:46	118	91			2		
5655	199	82/07/18	0630:54	0632:21	118	98			2		
5656	199	82/07/18	0633:01	0633:35	210	81			2		
5657	199	82/07/18	0751:06	0751:14	147	77			2		SA
5658	199	82/07/18	0959:19	0959:55	77	170	763		2	180, 10	
5659	199	82/07/18	1006:44	1007:20	48	67			2		
5660	199	82/07/18	1139:24	1142:07	193	126	7115		2	180, 11	
5661	199	82/07/18	1300:09	1301:21	104	295	2705		3	180, 12	
5662	199	82/07/18	2224:15	2224:38	34	303	1178		5	180, 13	
5663	199	82/07/18	2225:10	2225:43	76	64			2		
5664	199	82/07/18	2226:59	2227:29	198	82			5		AX
5665	199	82/07/18	2330:30	2333:26	225	78	2315		5	180, 14	AX
5667	200	82/07/19	0057:02	0100:52	1025	8174	1.05E+06		14	180, 16	M5, SN
5669	200	82/07/19	1101:31	1101:51	37	80			2		
5670	200	82/07/19	1248:03	1248:34	94	246	2850		3	181, 2	
5671	200	82/07/19	1250:32	1251:47	283	718	51430		3	181, 2	
5672	200	82/07/19	1424:34	1424:57	75	243	2088		4	181, 3	
5673	200	82/07/19	1544:15	1544:33	51	90			2		
5674	200	82/07/19	1552:06	1552:38	70	65			2		
5675	200	82/07/19	1608:57	1610:48	141	340	15209		3	181, 4	EN
5676	200	82/07/19	1841:26	1844:58	692	230	43252		2	181, 5	
5677	200	82/07/19	2010:19	2011:04	84	77			2		
5678	200	82/07/19	2013:52	2014:43	452	567	44870		5	181, 6	
5679	200	82/07/19	2206:20	2212:07	1464	115	2.91E+05		8	181, 7	EN, AX
5680	201	82/07/20	0229:26	0230:14	118	71			2		
5681	201	82/07/20	0233:46	0234:54	204	265	10799		2	181, 8	
5682	201	82/07/20	0239:20	0241:32	709	114	13981		2	181, 8	
5683	201	82/07/20	0411:27	0417:49	2243	7638	4.84E+05		15	181, 9	M5
5684	201	82/07/20	0751:01	0752:56	198	142	4519		2	181, 10	
5685	201	82/07/20	0917:22	0918:50	152	77	6337		2		
5686	201	82/07/20	1457:21	1457:33	47	156	688		3	181, 11	

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5687	201	82/07/20	1633:22	1633:41	52	65			2		
5688	201	82/07/20	1824:41	1826:21	156	92			2		
5689	201	82/07/20	2148:43	2149:12	126	147	3578		2	181, 12	
5690	201	82/07/20	2152:59	2154:14	619	1000	67191		8	181, 12	
5691	201	82/07/20	2306:13	2310:12	511	912	84779		4	181, 13	
5692	201	82/07/20	2321:53	2322:30	141	164	6116		5	181, 13	
5693	201	82/07/20	2336:35	2338:01	339	102	6238		3	181, 13	
5694	202	82/07/21	0108:44	0109:21	73	80			2		AX
5695	202	82/07/21	0114:18	0115:22	141	2134	33237		7	181, 14	
5699	202	82/07/21	1641:14	1645:08	1636	666	1.63E+05		5	181, 16	
5700	202	82/07/21	1812:52	1822:59	1206	3374	3.92E+05		14	182, 1	M5
5701	202	82/07/21	1840:24	1842:00	331	282	14827		2	182, 1	
5702	203	82/07/22	0015:31	0015:45	37	58			2		AX
5703	203	82/07/22	0511:29	0512:50	227	3520	73152		14	182, 2	M5
5709	203	82/07/22	1639:55	1657:36	1098	569			5	182, 8	EN,ND
5710	203	82/07/22	1734:18	1735:10	261	109	7243		2	182, 9	
5711	203	82/07/22	1955:09	1956:07	112	179	5487		3	182, 10	AX
5713	206	82/07/25	0002:47	0003:19	32	66			2		
5714	206	82/07/25	2132:59	2133:23	63	67			4		AX
5722	212	82/07/31	1710:18	1711:14	198	71			3		
5723	213	82/08/01	0717:36	0718:21	87	63			2		
5724	213	82/08/01	0721:58	0722:40	95	68			2		
5725	213	82/08/01	1949:09	1949:59	194	54			2		
5726	214	82/08/02	1456:58	1457:51	136	62			4		
5727	214	82/08/02	1620:42	1621:28	80	64			2		
5728	214	82/08/02	1816:27	1817:23	164	67			2		EG
5729	214	82/08/02	1953:38	1954:35	183	74			5		
5732	215	82/08/03	1145:33	1146:56	109	64			2		
5733	215	82/08/03	1300:58	1301:28	109	278	6389		4	182, 15	
5734	215	82/08/03	1440:37	1441:14	136	86			5		AX
5735	215	82/08/03	1620:20	1620:41	65	66			3		EG
5736	215	82/08/03	2119:15	2120:09	91	60			2		
5737	216	82/08/04	0000:24	0000:49	53	60			2		
5738	216	82/08/04	0017:08	0018:10	115	58			2		
5739	216	82/08/04	0457:24	0457:38	34	59			2		
5740	216	82/08/04	0622:04	0622:30	38	67			2		
5741	216	82/08/04	1007:30	1008:11	274	117	5437		2	182, 16	
5742	216	82/08/04	1106:40	1107:13	62	76			2		
5743	216	82/08/04	1750:29	1751:13	78	115	678		2	183, 1	
5744	216	82/08/04	1921:55	1922:18	48	70			2		
5745	216	82/08/04	2030:52	2031:03	31	73			2		
5746	217	82/08/05	0342:18	0343:17	306	270	22044		4	183, 2	M5,EN
5747	217	82/08/05	0807:00	0807:08	15	78			2		
5748	217	82/08/05	0912:43	0912:50	24	127	776		2	183, 3	
5749	217	82/08/05	0939:34	0939:58	81	81			2		
5750	217	82/08/05	0943:08	0945:55	240	125	2709		4	183, 4	
5751	217	82/08/05	1138:44	1139:11	130	711	26752		5	183, 5	
5752	218	82/08/06	0752:39	0753:08	64	67			2		
5754	219	82/08/07	1109:05	1109:55	110	85			5		
5755	219	82/08/07	1149:28	1150:05	116	150	1621		2	183, 6	
5756	219	82/08/07	1151:49	1152:47	60	83			2		
5757	219	82/08/07	1158:12	1207:11	932	153	25914		2	183, 6	
5758	219	82/08/07	1332:36	1332:56	102	78			2		



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5759	219	82/08/07	1644:21	1652:40	826	102	15479		3	183, 7	SG
5760	219	82/08/07	2140:59	2141:53	88	394	4762		5	183, 8	
5761	219	82/08/07	2144:02	2145:12	162	93			2	183, 8	
5762	220	82/08/08	0053:49	0054:10	52	101			2		EG
5763	220	82/08/08	0519:01	0519:27	33	74			2		
5764	220	82/08/08	0538:23	0538:38	39	61			2		
5765	220	82/08/08	0700:33	0701:05	49	92			2		
5766	220	82/08/08	0918:59	0919:21	42	66			2		
5767	220	82/08/08	1037:46	1038:06	198	127	4535		2	183, 9	
5770	220	82/08/08	1638:39	1639:15	86	72			2		
5771	220	82/08/08	1642:59	1643:24	73	68			2		
5772	220	82/08/08	1646:40	1646:58	150	109	1431		2	183, 11	
5768	220	82/08/08	1756:04	1756:16	29	173	909		2	183, 10	
5769	220	82/08/08	1759:31	1800:01	79	75			2		
5773	221	82/08/09	1613:05	1614:25	120	86			5		AX
5774	221	82/08/09	1616:34	1617:01	157	83			5		AX
5775	222	82/08/10	0516:27	0517:16	189	129	8702		2	183, 12	
5776	222	82/08/10	0525:09	0529:12	519	283	29553		2	183, 12	
5777	223	82/08/11	1138:09	1139:13	200	1516	57530		4	183, 14	MS
5778	224	82/08/12	1044:24	1045:44	139	148	4124		2	183, 15	
5780	225	82/08/13	1342:36	1343:22	124	294	5826		7	183, 16	
5781	225	82/08/13	1813:39	1817:52	502	186	14530		3	184, 1	
5782	225	82/08/13	2255:37	2259:36	638	446	31668		5	184, 2	
5783	225	82/08/13	2318:53	2323:45	452	71	2533		2	184, 3	
5784	226	82/08/14	0240:35	0242:26	597	610	39639		4	184, 4	
5785	226	82/08/14	0400:11	0400:57	298	77	1930		2	184, 5	
5786	226	82/08/14	0509:38	0510:05	444	535	39222		5	184, 6	SN,EG
5787	228	82/08/16	0203:15	0204:35	273	259	59307		5	184, 7	ND
5788	228	82/08/16	1232:35	1233:55	198	77			3		AX
5789	230	82/08/18	0407:41	0407:48	13	69			2		
5790	230	82/08/18	0750:55	0752:10	175	74			2		
5791	230	82/08/18	0753:51	0754:49	118	72			2		
5792	230	82/08/18	2346:42	2347:06	63	79			2		
5793	231	82/08/19	0047:20	0047:53	69	136	1680		2	184, 8	
5794	233	82/08/21	1609:41	1611:03	210	75			2		
5799	239	82/08/27	2106:46	2107:00	58	72			2		
5800	240	82/08/28	0215:09	0215:44	68	65			2		
5801	240	82/08/28	0508:30	0509:04	83	97			2		
5802	240	82/08/28	0642:25	0642:56	76	79			2		
5803	240	82/08/28	2212:37	2212:46	19	60			2		
5804	240	82/08/28	2258:13	2300:31	152	361	4303		5	184, 12	
5805	241	82/08/29	0314:16	0314:56	165	80			2		
5806	241	82/08/29	0345:08	0345:53	36	68			2		
5807	241	82/08/29	2334:51	2336:23	118	63			2		AX
5808	242	82/08/30	0013:02	0014:41	168	171	3474		2	184, 13	
5809	243	82/08/31	0743:05	0743:22	56	98			2		
5810	243	82/08/31	1721:15	1725:26	633	223	49025		2	184, 14	
5811	243	82/08/31	1757:56	1858:24	72	139	2465		2	184, 15	
5812	244	82/09/01	0738:14	0739:29	191	96			2		AX
5813	244	82/09/01	0917:21	0918:44	196	114	6768		2	184, 16	
5814	244	82/09/01	1619:51	1620:53	201	475	14605		4	185, 1	
5815	244	82/09/01	1829:10	1829:17	29	59			2		
5816	244	82/09/01	2126:55	2127:42	104	96	4601		2		

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5817	245	82/09/02	2125:25	2126:12	149	57			2		
5818	245	82/09/02	2259:40	2259:58	40	89			2		
5819	245	82/09/02	2308:39	2309:34	138	99			5		AX
5820	246	82/09/03	0138:01	0138:35	165	67			2		
5821	248	82/09/05	0308:50	0309:36	127	65			2		
5822	249	82/09/06	0041:59	0042:32	95	65			2		
5823	249	82/09/06	2159:12	2200:29	316	119	6299		5	185, 2	
5824	249	82/09/06	2329:27	2331:22	199	65			2		
5825	251	82/09/08	2123:00	2123:46	215	75			3		SG
5826	252	82/09/09	0200:40	0201:08	150	62			2		
5827	252	82/09/09	0953:11	0953:36	39	69			2		
5828	252	82/09/09	0954:38	0955:02	30	59			2		
5829	252	82/09/09	0956:35	0956:58	90	174	2135		2	185, 3	
5830	252	82/09/09	1011:41	1011:46	51	61			2		
5831	252	82/09/09	1014:38	1015:13	77	68			2		
5832	253	82/09/10	0014:37	0015:04	97	62			2		
5833	253	82/09/10	0019:44	0022:38	220	77	2654		2	185, 4	
5834	253	82/09/10	0437:03	0439:08	470	75	3644		2	185, 5	
5835	253	82/09/10	0826:21	0826:50	114	869	18849		4	185, 6	
5836	253	82/09/10	2143:59	2144:12	43	73			2		
5837	253	82/09/10	2147:32	2147:56	70	113	1698		5	185, 7	
5838	254	82/09/11	0607:08	0607:29	59	68			2		
5839	254	82/09/11	0634:22	0635:22	102	64			2		
5840	254	82/09/11	1529:18	1529:43	84	88			2		
5841	255	82/09/12	1548:56	1550:07	81	87			2		
5845	257	82/09/14	2352:51	2353:11	62	69			2		
5846	258	82/09/15	0214:05	0218:02	519	70	3191		2	185, 11	
5856	259	82/09/16	0822:53	0823:25	74	56			14		
5854	260	82/09/17	0301:53	0302:31	110	61			2		
5855	261	82/09/18	1508:11	1508:52	109	60			2		
5858	263	82/09/20	1131:18	1131:25	21	118	736		10		
5859	263	82/09/20	2217:17	2217:54	77	65			6		
5864	266	82/09/23	0854:17	0854:28	30	94			6		
5867	269	82/09/26	1421:23	1425:46	408	145	11577		5	186, 3	AX, EG
5868	270	82/09/27	0141:39	0142:17	101	102	1730		2	186, 4	
5869	271	82/09/28	0815:52	0816:14	41	63			2		
5870	271	82/09/28	2330:53	2331:20	89	2052	31286		7	186, 5	M5
5871	272	82/09/29	0220:44	0220:52	13	62			2		
5872	272	82/09/29	1842:17	1842:26	28	56			2		ES
5873	272	82/09/29	2014:57	2015:32	95	69			2		
5874	272	82/09/29	2016:33	2017:33	146	94			2		
5875	273	82/09/30	0836:23	0837:19	362	124	2792		2	186, 7	
5876	273	82/09/30	1033:24	1036:39	335	125	4553		2	186, 8	AX
5877	273	82/09/30	1203:58	1204:54	902	164	22759		13	186, 9	AX
5878	273	82/09/30	1630:26	1632:29	211	110	3022		2	186, 10	
5879	275	82/10/02	1239:34	1239:56	52	66			2		
5880	276	82/10/03	0440:27	0440:47	58	75			2		
5881	276	82/10/03	2012:19	2012:34	93	63			2		
5886	277	82/10/04	0403:42	0405:32	132	64			2		
5882	277	82/10/04	0612:42	0612:50	27	176	604		2	186, 11	
5883	277	82/10/04	0750:10	0750:23	46	351	3504		3	186, 12	
5885	277	82/10/04	1648:40	1649:06	44	72			2		
5888	278	82/10/05	2143:14	2144:51	200	74			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
5890	279	82/10/06	0353:52	0355:39	128	208	40639		3	186, 15	ND
5887	279	82/10/06	0544:33	0545:28	116	63			2		
5889	279	82/10/06	2301:36	2303:36	526	1278	1.26E+05		3	186, 14	M5
5891	286	82/10/13	0655:26	0655:41	32	59			2		
5892	287	82/10/14	0014:36	0014:59	40	415	4244		4	186, 16	
5893	287	82/10/14	0151:07	0151:13	12	82			2		
5894	287	82/10/14	0152:30	0152:51	148	243	4307		3	187, 1	
5895	288	82/10/15	2035:50	2037:39	680	214	15863		3	187, 2	
5896	289	82/10/16	2122:30	2122:53	55	68			2		
5897	289	82/10/16	2131:21	2132:16	149	71			4		
5898	290	82/10/17	2108:42	2109:06	68	71			5		
5899	290	82/10/17	2326:23	2330:37	303	127	3866		6	187, 3	
5900	291	82/10/18	0201:15	0202:41	78	74			3		
5901	291	82/10/18	0417:47	0417:51	208	58			3		
5902	292	82/10/19	0007:50	0009:15	161	62			2		AX
5903	292	82/10/19	1133:26	1139:29	501	285	9735		2	187, 4	
5904	292	82/10/19	1803:15	1803:39	96	91			2		
5905	292	82/10/19	1919:43	1920:11	81	58			2		
5906	293	82/10/20	0123:24	0123:57	83	72			2		
5907	294	82/10/21	0107:17	0108:04	157	79			3		AX
5908	294	82/10/21	0133:35	0134:09	68	59			2		
5909	294	82/10/21	0812:12	0812:57	51	71			2		
5910	294	82/10/21	2001:29	2002:17	98	55			2		
5911	294	82/10/21	2215:43	2216:29	108	121	3187		3	187, 5	
5912	295	82/10/22	2121:59	2122:43	90	64			2		
5913	295	82/10/22	2156:40	2157:31	103	72			6		
5914	298	82/10/25	1130:58	1131:11	173	95			2		
5916	298	82/10/25	1557:31	1559:00	188	74			2		
5917	298	82/10/25	1845:06	1845:52	88	89			2		
5915	298	82/10/25	1852:01	1852:45	70	58			2		
5918	298	82/10/25	2249:32	2253:33	262	487	31753		5	187, 6	
5919	299	82/10/26	0025:20	0025:45	93	1046	13934		5	187, 7	
5920	299	82/10/26	0137:38	0138:02	31	73			2		
5921	299	82/10/26	2014:42	2015:08	37	56			2		
5922	299	82/10/26	2204:11	2204:22	110	100			2		
5923	300	82/10/27	0052:19	0052:43	156	145	2130		2	187, 8	
5924	300	82/10/27	0303:24	0305:16	210	829	23467		3	187, 9	
5925	300	82/10/27	0409:01	0409:17	401	826	75549		4	187, 10	SA
5926	300	82/10/27	0427:46	0436:00	1568	1108	2.89E+05		8	187, 10	M5
5927	300	82/10/27	0751:37	0751:50	26	88			2		
5928	300	82/10/27	1045:44	1045:57	103	87			2		
5929	300	82/10/27	1545:17	1545:49	56	86			2		
5930	300	82/10/27	1827:23	1827:50	45	59			2		
5931	300	82/10/27	1950:58	1951:18	63	64			2		
5932	300	82/10/27	2007:48	2007:59	87	63			2		
5933	300	82/10/27	2013:10	2013:16	40	53			2		
5934	300	82/10/27	2017:26	2019:25	220	214	11396		3	187, 11	
5935	301	82/10/28	0352:05	0352:31	58	168	2598		4	187, 12	
5936	303	82/10/30	0350:03	0350:18	38	85			2		
5937	303	82/10/30	1730:26	1730:47	62	89			2		
5938	303	82/10/30	1933:36	1934:54	195	89			13		AX
5939	304	82/10/31	2211:42	2211:51	22	51			2		
5940	305	82/11/01	1953:51	1954:07	57	150	2296		7	187, 13	AX, SN

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5941	305	82/11/01	2006:04	2008:37	263	107	3281		2	187, 13	
5942	305	82/11/01	2204:26	2205:54	170	69			5		
5943	305	82/11/01	2217:48	2218:56	162	83			5		
5944	306	82/11/02	0131:51	0131:44	10	112	243		14	187, 14	
5945	306	82/11/02	1221:39	1222:11	71	95			2		
5946	306	82/11/02	1626:49	1627:57	128	132	3317		2	187, 15	
5947	307	82/11/03	0349:29	0350:11	145	206	4279		3	187, 16	
5948	307	82/11/03	0709:44	0911:04	148	89			2		
5949	307	82/11/03	0735:12	0735:25	25	112	658		2	188, 1	
5950	307	82/11/03	2140:02	2140:23	77	68			15		AX
5951	308	82/11/04	0849:49	0849:55	55	64			14		
5952	308	82/11/04	1435:03	1435:31	67	67			2		
5953	311	82/11/07	1101:34	1102:14	91	54			11		
5954	312	82/11/08	1216:31	1217:36	94	81			2		
5955	312	82/11/08	1218:45	1219:08	52	62			2		
5956	312	82/11/08	1223:31	1223:56	38	69			2		
5957	312	82/11/08	1531:46	1532:53	109	140	2903		2	188, 2	
5958	314	82/11/10	0022:17	0022:39	135	99			2		
5959	314	82/11/10	1757:03	1759:04	134	96			2		AX
5960	314	82/11/10	1921:08	1921:33	56	65			2		
5961	315	82/11/11	0216:21	0216:49	58	121	1225		2	188, 3	EN
5962	315	82/11/11	0629:57	0630:13	43	85			2		
5963	315	82/11/11	0656:50	0657:10	80	71			2		
5964	319	82/11/15	1614:22	1616:11	390	496	56681		3	188, 4	
5965	321	82/11/17	1039:27	1040:09	166	98			2		
5966	321	82/11/17	1042:42	1043:01	114	81			2		
5967	322	82/11/18	0122:44	0123:58	192	113	5248		2	188, 5	
5968	322	82/11/18	0302:51	0303:39	135	112	2007		2	188, 2	
5969	322	82/11/18	0454:15	0455:00	200	98			2		
5974	323	82/11/19	0528:42	0529:57	565	393	61752		3	188, 9	
5970	323	82/11/19	0729:59	0731:11	195	89			2		
5971	323	82/11/19	2314:35	2315:26	102	136	2014		2	188, 7	
5972	323	82/11/19	2318:32	2318:50	32	88			2		
5973	324	82/11/20	0156:15	0215:24	1602	152	37482		2	188, 8	
5975	324	82/11/20	1010:06	1012:03	453	3269	3.61E+05		5	188, 10	
5976	324	82/11/20	2235:02	2235:21	44	125	1291		2	188, 12	
5977	325	82/11/21	0135:26	0136:14	70	93			2		
5978	325	82/11/21	2355:18	2355:27	50	132	811		2	188, 13	
5979	326	82/11/22	0339:08	0339:22	50	63			2		
5980	326	82/11/22	0450:03	0450:46	125	177	3668		2	188, 14	
5981	326	82/11/22	1129:18	1129:30	149	210	2304		5	188, 15	
5982	326	82/11/22	1139:06	1139:27	110	62			2		
5983	326	82/11/22	1219:55	1220:02	20	55			2		
5984	326	82/11/22	1444:06	1444:14	30	1798	11326		10	188, 16	MS
5985	326	82/11/22	1450:34	1450:39	12	118	341		4	188, 16	
5986	326	82/11/22	1533:40	1533:44	30	105	416		2	189, 1	
5987	326	82/11/22	1537:44	1537:53	104	144	2071		3	189, 1	
5988	326	82/11/22	1702:00	1702:08	164	286	6662		8	189, 2	SN
5989	327	82/11/23	0245:21	0245:54	49	111	549		2	189, 3	
5990	327	82/11/23	0317:21	0317:39	88	3734	72240		8	189, 4	
5991	327	82/11/23	0324:54	0325:44	100	136	1594		5	189, 4	
5992	327	82/11/23	1032:54	1033:24	77	113	863		2	189, 5	
5993	327	82/11/23	1107:34	1108:14	78	74			2		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME MM:SS	PEAK TIME MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE# FILE#	NOTES
5994	327	82/11/23	1111:08	1111:35	104	264	3093		5	189, 6	
5995	327	82/11/23	1113:35	1115:26	199	132	3843		2	189, 6	
5996	327	82/11/23	1117:58	1120:57	307	321	7101		8	189, 6	M5
5997	327	82/11/23	1202:18	1202:52	51	122	1497		4	189, 7	
5998	327	82/11/23	1246:53	1247:37	218	171	6945		5	189, 8	
5999	327	82/11/23	1335:13	1336:55	142	58			2		
6000	327	82/11/23	1340:09	1340:38	161	119	1889		4	189, 9	
6001	327	82/11/23	1344:56	1345:49	250	2201	65222		10	189, 9	M5
6002	327	82/11/23	1425:49	1426:11	112	97			2		
6003	327	82/11/23	1431:28	1431:52	97	404	5472		7	189, 10	
6004	327	82/11/23	1510:48	1511:53	100	195	4559		5	189, 11	
6005	327	82/11/23	1517:09	1517:58	79	149	1527		3	189, 11	
6006	327	82/11/23	1519:49	1520:19	155	183	5285		4	189, 11	
6007	327	82/11/23	1606:46	1607:00	69	81			2		
6008	327	82/11/23	1652:27	1652:51	71	572	6824		6	189, 12	
6009	327	82/11/23	1820:02	1820:14	51	71			2		
6010	327	82/11/23	1958:38	1959:37	177	78			2		
6011	327	82/11/23	2020:45	2021:05	44	83			2		
6012	328	82/11/24	0442:47	0444:17	205	155	9290		3	189, 13	
6013	328	82/11/24	0554:37	0555:14	98	67			2		
6014	328	82/11/24	1939:18	1939:38	46	363	2840		5	189, 14	
6015	328	82/11/24	1942:33	1943:33	103	64			2		
6016	328	82/11/24	2331:05	2331:36	38	84			2		
* 6017	330	82/11/26	0217:52	0233:22	9999	22747	4.81E+06		15	189, 15	M5, S6, D6
6274	330	82/11/26	0515:47	0517:02	196	441	12364		3	195, 5	
6018	332	82/11/28	0557:16	0557:30	57	139	2222		2	189, 16	AX
6019	332	82/11/28	0749:09	0749:17	59	82			2		
6020	332	82/11/28	2322:21	2322:40	31	67			2		
6021	333	82/11/29	0305:14	0305:46	95	76			2		
6022	333	82/11/29	0740:41	0740:48	23	62			2		
6023	333	82/11/29	0927:35	0929:09	215	115	3582		2	190, 1	
6024	334	82/11/30	0044:56	0045:34	65	228	2581		3	190, 2	
6025	334	82/11/30	0046:39	0046:53	89	132	1869		2	190, 2	
6026	334	82/11/30	0336:46	0337:10	45	81			2		
6027	334	82/11/30	0411:22	0411:39	53	687	6323		3	190, 3	
6028	335	82/12/01	0010:54	0011:05	37	189	1351		3	190, 4	
6029	336	82/12/02	0259:36	0259:49	57	80			2		
6030	336	82/12/02	1003:53	1004:24	100	68			2		
6031	336	82/12/02	2108:57	2111:46	404	263	34789		5	190, 5	
6033	336	82/12/02	2240:12	2241:32	85	150			2		
6032	337	82/12/03	0637:28	0638:00	60	62			2		
6034	337	82/12/03	1914:15	1914:28	33	159			3	190, 6	
6035	337	82/12/03	2142:19	2142:52	98	76			2		
6036	338	82/12/04	0912:17	0913:17	236	626	33414		2	190, 7	SA
6037	338	82/12/04	0925:45	0926:28	118	261	3481		3	190, 7	D6
6038	339	82/12/05	0047:35	0048:42	65	66			2		
6039	339	82/12/05	0256:35	0257:10	98	78			2		
6040	339	82/12/05	0918:39	0918:57	38	57			2		
6041	339	82/12/05	2109:53	2110:30	65	119	2128		5	190, 8	
6042	339	82/12/05	2330:46	2331:39	82	80			4		
6043	340	82/12/06	0020:29	0021:15	154	426	19615		6	190, 9	AX
6044	340	82/12/06	0029:18	0030:34	152	87			3		
6045	340	82/12/06	0109:53	0110:38	68	69			3		

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
6046	340	82/12/06	0207:14	0207:45	65	64			2		
6047	340	82/12/06	2136:34	2136:56	37	74			2		
6048	340	82/12/06	2359:22	0001:07	206	240			5	190, 10	NO
6049	341	82/12/07	0700:17	0701:16	91	76			2		
6050	341	82/12/07	0702:35	0703:46	25	88			2		
6051	341	82/12/07	1317:14	1319:19	261	197	15341		2	190, 11	
6052	341	82/12/07	1622:59	1623:12	43	61			2		
6053	341	82/12/07	1742:08	1742:42	67	96			2		
6054	341	82/12/07	1746:58	1748:56	202	332	7085		5	190, 12	
6055	341	82/12/07	1756:32	1757:04	57	76			2		
6056	341	82/12/07	1806:24	1810:11	518	427	45017		2	190, 14	
6057	341	82/12/07	2031:48	2031:53	8	90			2		
6058	341	82/12/07	2201:38	2202:58	97	63			2		
6059	341	82/12/07	2252:13	2252:51	148	85			7		AX
6060	341	82/12/07	2335:30	2352:41	3539	23654	1.80E+07		15	190, 13	M5, SN, EN
6061	342	82/12/08	0134:09	0134:40	51	67			2		
6062	342	82/12/08	0156:01	0156:12	33	65			2		
6063	342	82/12/08	0159:58	0200:49	104	70			2		
6064	342	82/12/08	0203:45	0204:44	65	69			2		
6065	342	82/12/08	0207:17	0207:32	170	82			2		
6066	342	82/12/08	0253:52	0255:02	200	110	3126		2	190, 14	
6067	342	82/12/08	0301:14	0306:26	769	312	59282		2	190, 14	
6068	342	82/12/08	0825:13	0828:03	207	114	2082		2	190, 15	
6069	342	82/12/08	0939:01	0939:19	49	90			2		
6070	342	82/12/08	0950:41	0950:56	39	68			2		
6071	342	82/12/08	0953:07	0953:36	60	86			2		
6072	342	82/12/08	1348:20	1443:52	6734	2454	1.59E+06		15	199, 1	M5, SN, IS,
6073	342	82/12/08	1609:23	1609:54	255	106	3131		2	190, 16	
6074	342	82/12/08	2336:03	2337:04	79	72			2		
6075	342	82/12/08	2342:37	2343:05	55	75			2		
6076	343	82/12/09	1600:44	1601:20	196	205	6443		2	191, 1	
6077	343	82/12/09	1733:30	1737:07	319	259	19941		3	191, 2	EN
6078	343	82/12/09	1848:46	1849:04	42	71			2		
6079	343	82/12/09	1859:39	1902:43	376	469	26528		3	191, 3	
6080	343	82/12/09	2124:26	2125:04	46	69			2		
6081	343	82/12/09	2142:33	2145:42	2134	2936	1.01E+06		5	191, 4	M5
6082	344	82/12/10	0040:29	0040:56	153	76			2		
6083	344	82/12/10	0043:32	0044:17	87	97			2		
6084	344	82/12/10	0050:00	0051:23	226	202	16925		2	191, 5	
6085	344	82/12/10	0115:26	0115:57	736	323	32114		2	191, 5	M5
6086	344	82/12/10	0131:16	0131:29	24	68			2		
6087	344	82/12/10	0236:12	0240:55	1798	3311	5.66E+05		5	191, 6	M5
6088	344	82/12/10	1316:20	1320:49	441	211	28070		2	191, 7	ES
6089	344	82/12/10	1349:32	1350:49	145	98			2		
6090	344	82/12/10	1525:35	1526:36	71	121			2	191, 8	SG, DG, EG
6091	344	82/12/10	1532:55	1535:02	196	64			2		
6092	344	82/12/10	1815:40	1816:49	445	480	51354		3	191, 9	
6093	344	82/12/10	1929:35	1931:14	196	72			2		
6094	344	82/12/10	2113:31	2115:53	715	83			2		
6095	344	82/12/10	2253:11	2253:20	22	116	601		2	191, 10	
6096	345	82/12/11	0020:39	0020:57	31	74			2		
6097	345	82/12/11	0022:38	0023:23	81	68			2		
6098	345	82/12/11	0030:31	0031:21	482	126	5393		2	191, 11	

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HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPEN, FILE#	NOTES
6099	345	82/12/11	0048:48	0049:23	69	196	1602		3	191, 12	
6100	345	82/12/11	0113:51	0114:21	40	73			2		EN
6101	345	82/12/11	0219:58	0226:04	662	100	6519		2	191, 13	
6102	345	82/12/11	0235:51	0248:19	931	174	9985		4	191, 13	
6103	345	82/12/11	0543:48	0544:29	107	518	5931		3	191, 14	
6104	345	82/12/11	1444:24	1445:44	266	179	6023		2	191, 15	
6105	345	82/12/11	1824:29	1826:35	177	92			2		
6106	345	82/12/11	1956:29	1956:47	76	79			2		ND
6107	345	82/12/11	2101:57	2102:48	89	75			2		ND
6108	345	82/12/11	2131:28	2131:45	143	86			6		AX, ND
6109	345	82/12/11	2305:53	2306:11	33	71			2		
6110	345	82/12/11	2314:14	2315:05	180	96			2		
6111	346	82/12/12	1546:42	1546:54	27	69			2		
6112	346	82/12/12	1607:36	1607:54	29	68			2		
6113	346	82/12/12	1800:38	1800:54	51	58			2		
6114	346	82/12/12	2343:11	2344:14	176	84			3		AX
6115	347	82/12/13	0139:26	0139:37	68	83			2		DG
6116	347	82/12/13	0320:52	0325:43	1602	12464	1.64E+06		15	191, 16	M5
6117	347	82/12/13	0657:20	0657:35	40	57			2		
6118	347	82/12/13	0802:43	0807:08	823	2807	3.49E+05		10		M5
6119	347	82/12/13	1134:36	1134:56	30	81			2		
6120	347	82/12/13	1743:57	1744:19	37	87			2		
6121	348	82/12/14	0000:17	0000:38	94	88			2		
6122	348	82/12/14	0735:45	0739:41	372	182	6787		4	192, 1	DG
6123	348	82/12/14	1347:25	1347:48	34	87			2		
6124	349	82/12/15	1626:19	1632:40	1465	81391	1.32E+07		13	199, 2	
6125	349	82/12/15	1702:43	1704:48	518	124	7241		2	199, 2	
6126	349	82/12/15	2143:50	2151:31	1608	5165	8.98E+05		8	192, 2	
6127	350	82/12/16	1220:21	1220:59	71	81			2		
6128	350	82/12/16	1451:59	1502:12	2521	8678	3.71E+06		10	192, 3	M5, DG
6129	350	82/12/16	1616:11	1621:13	463	125	14435		3	192, 4	AX
6130	350	82/12/16	1632:10	1633:51	469	69	3067		2	192, 4	
6131	350	82/12/16	1923:49	1928:16	822	269	26051		2	192, 5	
6132	350	82/12/16	2309:47	2310:19	139	155	3434		2	192, 6	
6133	350	82/12/16	2314:02	2314:16	41	69			2		
6134	350	82/12/16	2316:01	2316:19	48	76			2		
6135	351	82/12/17	0002:59	0003:18	54	448	3892		3	192, 7	
6136	351	82/12/17	0007:39	0007:54	45	103	762		2	192, 7	
6137	351	82/12/17	0144:24	0145:55	1099	3596	3.46E+05		9	192, 8	M5
6138	351	82/12/17	0219:57	0221:32	538	190	13240		2	192, 8	
6139	351	82/12/17	0519:06	0519:39	144	430	14304		4	192, 9	
6140	351	82/12/17	0850:14	0850:20	25	83			2		
6141	351	82/12/17	1000:26	1002:30	717	907	69234		3	192, 10	
6142	351	82/12/17	1202:25	1202:34	23	101			3		
6143	351	82/12/17	1441:30	1441:37	23	110	429		2	192, 11	
6144	351	82/12/17	1643:25	1645:13	167	70			2		
6145	351	82/12/17	1818:49	1819:31	86	62			2		
6146	351	82/12/17	1854:40	1857:10	4059	108043	1.51E+07		15	199, 3	M5, SN, DG, EN
6147	351	82/12/17	2031:32	2032:00	231	149	7663		2	192, 12	
6148	351	82/12/17	2103:52	2106:30	1298	408	1.33E+05		5	192, 13	
6149	351	82/12/17	2240:01	2246:40	254	127	48173		2	192, 14	EG
6150	352	82/12/18	0303:07	0303:28	65	133	1006		2	192, 15	
6151	352	82/12/18	0304:21	0304:26	21	104	370		2	192, 15	

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6152	352	82/12/18	0817:31	0822:02	1241	19095	1.56E+06		10	192, 16	MS,ND
6153	352	82/12/18	1752:30	1752:41	36	79			2		
6154	352	82/12/18	1922:08	1922:19	28	100			2		
6155	352	82/12/18	2017:01	2017:22	77	73			2		
6156	352	82/12/18	2049:02	2051:04	160	71			4		
6157	352	82/12/18	2248:02	2248:58	93	168	3112		2	193, 1	ES
6158	352	82/12/18	2328:45	2329:30	76	72			2		
6159	352	82/12/18	2350:30	2350:50	72	110	3324		2	193, 2	
6160	353	82/12/19	0020:44	0021:01	42	64			2		
6161	353	82/12/19	0133:23	0136:09	532	413	60072		4	193, 3	
6162	353	82/12/19	0142:51	0143:32	99	228	5071		4	193, 3	
6163	353	82/12/19	0622:00	0622:12	38	87			2		
6164	353	82/12/19	0948:17	0949:00	228	380	6660		3	193, 4	IG
6165	353	82/12/19	1128:13	1128:28	70	117	640		2	193, 5	
6166	353	82/12/19	1130:47	1130:54	23	70			2		
6167	353	82/12/19	1207:39	1208:00	48	76			2		
6168	353	82/12/19	1347:45	1348:35	135	155	4606		2	193, 6	ND
6169	353	82/12/19	1432:56	1433:11	65	64			2		
6170	353	82/12/19	1537:57	1540:16	170	112	1942		2	193, 7	
6171	353	82/12/19	1542:51	1543:52	151	76			2		
6172	353	82/12/19	1549:28	1648:45	6668	304	1.36E+05		2	199, 4	IN
6173	353	82/12/19	1918:16	1918:31	159	63			2		
6174	353	82/12/19	2018:56	2019:10	108	534	13739		5	193, 8	
6175	353	82/12/19	2038:18	2038:55	122	73			2		
6176	354	82/12/20	0102:02	0102:15	20	99			2		
6177	354	82/12/20	0550:22	0550:35	32	75			2		
6178	354	82/12/20	0617:37	0619:04	130	76			2		
6179	354	82/12/20	0723:58	0724:10	60	116	1044		2	193, 9	
6180	354	82/12/20	0925:21	0925:27	18	65			2		
6181	354	82/12/20	1246:58	1247:35	195	72			2		
6182	354	82/12/20	1634:11	1634:41	173	70			2		
6183	354	82/12/20	1703:01	1706:42	332	169	15647		2	193, 10	
6184	355	82/12/21	0211:35	0212:51	415	1193	87310		7	193, 11	
6185	355	82/12/21	0421:49	0423:42	139	77			2		
6186	355	82/12/21	0432:54	0434:20	173	88			2		
6187	355	82/12/21	0544:47	0545:49	125	99			2		
6188	355	82/12/21	0559:17	0559:46	57	103	829		2	193, 12	
6189	355	82/12/21	0605:36	0605:55	45	64			2		
6190	355	82/12/21	0612:27	0613:17	79	115	1920		2	193, 12	
6191	355	82/12/21	1445:02	1445:11	67	67			2		
6192	355	82/12/21	1748:48	1749:08	28	73			2		
6193	355	82/12/21	1926:43	1927:42	113	96			2		
6194	355	82/12/21	2247:04	2247:55	80	82			2		
6195	355	82/12/21	2308:04	2309:07	124	155	11088		5	193, 13	
6196	356	82/12/22	0207:07	0208:33	144	100			2		
6197	356	82/12/22	0211:52	0211:29	37	67			2		
6198	356	82/12/22	0218:41	0219:05	81	195	3440		2	193, 14	
6199	356	82/12/22	0643:49	0644:04	53	117	1148		2	193, 15	
6200	356	82/12/22	1616:41	1618:31	200	83			2		ND,IG
6201	356	82/12/22	1757:36	1758:06	100	63			2		
6202	356	82/12/22	2241:19	2241:58	124	64			2		
6203	357	82/12/23	1019:19	1019:52	59	66			2		
6204	358	82/12/24	0124:23	0124:47	78	69			2		



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6205	358	82/12/24	1305:45	1306:07	59	72			2		
6206	358	82/12/24	1310:23	1310:33	19	62			2		
6207	358	82/12/24	1312:43	1313:05	125	61			2		
6208	358	82/12/24	2153:31	2153:45	58	88			2		
6209	359	82/12/25	1250:42	1251:29	57	123	1561		2	193, 16	
6210	359	82/12/25	1658:27	1658:47	80	89			2		
6211	359	82/12/25	1707:28	1707:47	50	62			2		
6212	359	82/12/25	2132:24	2132:39	34	76			2		
6213	360	82/12/26	0102:21	0102:31	143	65			2		
6214	360	82/12/26	1039:42	1040:06	100	341	3385		2		
6215	360	82/12/26	1143:29	1143:56	33	90			4	194, 1	
6216	360	82/12/26	1159:19	1159:39	67	80			2		
6217	360	82/12/26	1506:08	1510:03	435	160	29027		2		
6218	361	82/12/27	0019:05	0019:22	48	84			3	194, 2	
6219	361	82/12/27	0159:30	0159:59	41	98			2		
6220	361	82/12/27	0523:44	0524:21	376	375	28212		2		
6221	361	82/12/27	0533:47	0534:15	38	62			5	194, 3	
6222	361	82/12/27	0814:59	0815:21	61	83			2		
6223	362	82/12/28	0306:03	0306:46	87	62			2		
6224	362	82/12/28	0834:13	0834:45	55	63			2		
6225	362	82/12/28	0846:23	0848:28	164	60			2		
6226	362	82/12/28	0936:45	0937:33	82	58			2		
6227	362	82/12/28	1556:52	1557:58	178	2287	1.33E+05		2		
6228	363	82/12/29	0136:29	0137:11	252	183	7452		5	194, 4	M5
6229	363	82/12/29	0950:59	0951:12	45	61			2	194, 5	
6230	363	82/12/29	1622:15	1622:42	58	113	1999		2		
6231	363	82/12/29	1727:16	1728:31	123	97			2	194, 6	
6232	363	82/12/29	2337:16	2337:58	72	128	693		2		
6233	363	82/12/29	2348:18	2348:59	138	86	7462		2	194, 7	
6234	364	82/12/30	0141:15	0142:49	415	6891	1.47E+05		2		
6235	364	82/12/30	0411:23	0411:36	46	77			11	194, 8	M5,ES
6236	364	82/12/30	0603:29	0604:02	56	61			2		
6237	364	82/12/30	1519:20	1519:37	33	70			2		
6238	364	82/12/30	1842:51	1845:25	234	423	18821		2		
6239	365	82/12/31	0246:05	0246:15	23	70			3	194, 9	3A
6240	365	82/12/31	1408:48	1409:19	94	64			2		
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6241	2	83/01/02	0155:45	0158:29	399	645	55266		2	194, 10	
6242	5	83/01/05	1321:37	1322:45	162	71			2		
6252	7	83/01/07	0204:56	0206:03	201	688	16380		7	194, 15	
* 6251	7	83/01/07	0516:02	0516:19	29	200			5		ND
6253	9	83/01/09	1835:43	1836:05	45	451	4444		4	194, 16	
6254	10	83/01/10	0549:00	0549:23	54	57			2		
6255	10	83/01/10	0551:41	0557:48	417	105	8503		4	195, 1	
6256	10	83/01/10	0733:29	0734:33	388	217	12916		5	195, 2	
6257	10	83/01/10	0913:08	0913:51	183	64			2		
6258	12	83/01/12	0828:24	0828:40	61	81			9		AX
6259	12	83/01/12	1910:03	1910:43	80	77			2		
6260	15	83/01/15	0054:14	0054:30	90	86			2		
6261	23	83/01/23	0038:46	0039:26	114	59			2		
6262	24	83/01/24	0019:55	0020:02	59	91			3		
6263	28	83/01/28	1434:10	1434:34	41	76			2		
6264	29	83/01/29	1646:23	1646:59	64	53			2		
6265	31	83/01/31	0105:40	0105:59	35	73			2		
6266	31	83/01/31	1142:26	1143:44	92	61			2		
6267	32	83/02/01	0401:30	0401:46	39	77			2		
6268	32	83/02/01	1924:43	1924:52	18	82			2		
6304	32	83/02/01	2205:57	2207:20	136	117	2905		2	195, 16	
6270	34	83/02/03	0550:25	0603:37	7389	46354	1.51E+07		15	199, 5	MS, SA, DG, IN, IS
6271	34	83/02/03	1828:23	1828:43	65	85			2		
6272	34	83/02/03	1829:49	1829:59	55	141	1377		2	195, 4	
6273	34	83/02/03	1830:44	1832:16	331	359	16595		2	195, 4	
6275	35	83/02/04	1104:56	1106:02	131	60			2		
6276	36	83/02/05	0035:37	0036:41	100	64			2		
6277	36	83/02/05	0152:22	0153:44	295	186	7661		3	195, 6	SA
6278	36	83/02/05	0700:22	0701:33	197	405	11369		3	195, 7	
6279	36	83/02/05	1027:34	1027:42	53	60			2		
6280	36	83/02/05	1337:07	1340:19	465	81	6709		2	195, 8	
6281	36	83/02/05	1449:07	1450:13	102	93			5		
6282	36	83/02/05	1803:43	1805:26	126	43			2		
6283	36	83/02/05	1806:19	1807:34	172	67			3		
6284	36	83/02/05	1811:08	1812:21	121	76			3		
6285	36	83/02/05	1813:31	1814:09	104	69			2		
6286	37	83/02/06	0508:43	0509:13	60	54			2		
6287	37	83/02/06	0512:42	0513:05	62	60			2		
6288	37	83/02/06	0527:00	0528:05	147	77			2		
6289	37	83/02/06	1430:54	1431:26	64	300	6276		7	195, 9	
6290	37	83/02/06	1501:38	1502:25	41	59			2		
6291	37	83/02/06	1609:25	1610:09	77	96			5		
6292	37	83/02/06	1735:54	1747:44	1025	82	6635		2	195, 10	
6294	40	83/02/09	1332:07	1332:34	53	92			8		AX
6295	40	83/02/09	1506:58	1510:35	466	138	12400		8	195, 12	AX
6296	41	83/02/10	1220:29	1220:45	52	149	740		5	195, 13	
6297	43	83/02/12	1316:44	1317:15	79	106	2338		5	195, 14	AX
6298	45	83/02/14	0929:58	0931:16	188	68			3		AX
6301	60	83/03/01	1046:14	1046:37	119	306	5438		3	195, 15	
6302	60	83/03/01	1316:40	1317:14	199	72			2		
6303	60	83/03/01	1951:14	1951:29	54	69			2		

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6309	62	83/03/03	2220:00	2220:47	165	84			6		AX
6315	65	83/03/06	0209:50	0211:05	164	94			4		AX
6334	67	83/03/08	2253:10	2254:14	147	76			4		
6335	68	83/03/09	0010:21	0011:38	210	67			2		
6336	69	83/03/10	0006:23	0008:37	675	171	21026		2	196, 7	
6340	71	83/03/12	2128:22	2129:31	134	72			4		AX
6341	72	83/03/13	0006:42	0007:10	73	69			4		AX
6347	73	83/03/14	2008:17	2009:09	174	69			4		
6348	73	83/03/14	2013:34	2013:54	71	57			3		
6349	73	83/03/14	2046:32	2047:38	105	52			4		
6350	73	83/03/14	2050:08	2051:01	89	64			10		
6351	73	83/03/14	2143:10	2150:36	505	71	7817		4	196, 11	
6363	75	83/03/16	2158:59	2200:03	157	84			2		
6370	76	83/03/17	0223:08	0223:50	889	161	20988		2	196, 15	
6371	76	83/03/17	0722:18	0723:52	192	99			2		DG
6372	76	83/03/17	0900:11	0900:48	254	403	26256		2	196, 16	EN
6373	76	83/03/17	1333:56	1334:48	445	856	56328		4	197, 1	
6374	76	83/03/17	1457:50	1458:59	131	63	836		2		
6375	77	83/03/18	0049:48	0050:40	102	106	3022		2	197, 2	
6376	77	83/03/18	0152:46	0153:45	687	154	13264		2	197, 3	
6377	77	83/03/18	0806:45	0807:25	253	149	7328		2	197, 4	
6368	77	83/03/18	1852:20	1853:26	183	61			2		
6369	77	83/03/18	1924:01	1924:53	201	65			3		
6378	79	83/03/20	1210:34	1210:46	31	52	245		2		
6380	80	83/03/21	2016:26	2016:51	51	65			2		
6381	80	83/03/21	2123:36	2124:16	91	62			2		
6382	81	83/03/22	0156:35	0156:49	22	62			2		
6383	82	83/03/23	0125:17	0125:53	176	70			2		
6385	84	83/03/25	0242:28	0242:53	46	63			2		
6386	84	83/03/25	0245:08	0247:41	480	86	6532		2	197, 6	
6387	84	83/03/25	0608:08	0608:13	19	80			2		
6388	84	83/03/25	1015:40	1016:59	200	75			4		AX
6392	90	83/03/31	0025:31	0025:48	25	85			5		
6393	94	83/04/04	1034:02	1034:40	126	181	4410		3	197, 10	

\*\*\*\*\*

AX = POSSIBLE FALSE FLARE CAUSED BY CHARGED PARTICLES  
DG = DATA GAPS  
EG = EVENT ENDS IN DATA GAP  
EN = EVENT ENDS AT NIGHT  
ES = EVENT ENDS IN SAA  
SN = EVENT STARTS AT NIGHT  
I = FLARE FOUND FROM IPD TAPES  
IN = FLARE INTERRUPTED BY NIGHT  
IS = FLARE INTERRUPTED BY SAA  
M = MEMORY DUMP WITH 10MS TIME RESOLUTION  
M1 = MEMORY DUMP WITH 5MS TIME RESOLUTION  
M5 = MEMORY DUMP WITH 1MS TIME RESOLUTION  
ND = NOISY DATA  
SA = EVENT STARTS IN SOUTH ATLANTIC ANOMALY(SAA)  
SG = EVENT STARTS IN DATA GAP

\*\*\*\*\*

\*308 NON-SOLAR GAMMA RAY BURST  
\*318 NON-SOLAR GAMMA RAY BURST  
\*1219-1225 TIMES ON ARCHIVE LOW BY 4:30 .TIMES ARE CORRECT ON THIS LISTING  
\*2203-2240 GAIN CHANGE FOR THESE EVENTS ONLY AS FOLLOWS:  
\*2203-2209 ENERGY RANGE 12.6 KEV TO 194 KEV  
\*2210-2213 ENERGY RANGE 106 KEV TO 1328 KEV  
\*2214-2240 ENERGY RANGE 43 KEV TO 789 KEV  
\*3077-3086 TIME HIGH BY 24 DAYS 2031:24.906 ON ARCHIVE & FLARE TAPES ONLY  
\*3568-3618 TIMES LOW BY 3.072 SEC ON ARCHIVE TAPES FROM 81/09/14 TO 81/09/20  
\*5053-5439 TIMES HIGH BY 5.12 SEC ON ARCHIVE TAPES FROM 82/04/27 TO 82/06/22  
\*6251 GAIN CHANGE FOR THIS EVENT ONLY, ENERGY RANGE 13.6 TO 209 KEV.  
\*6017 DURATION > 12443 SEC

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TABS,3,21,29,34,41,49,55,58,65,68  
STOPS 11,29,37,42,49,57,63,66,73,76

**LISTING**  
**OF ALL HXRBS EVENTS WITH A**  
**PEAK RATE > 10,000 COUNTS/S.**

**2 February 1980 to 11 April 1983**

## HXRBS EVENT LISTING

ORIGINAL LISTING  
OF POOR QUALITY

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HHMM:SS	PEAK TIME HHMM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
87	89	80/03/29	0917:00	0918:13	210	19000	2.50E+05	2363	15	6, 10	M
295	106	80/04/15	1508:00	1510:25	700	19000	9.50E+05	2389	11	14, 16	M
375	119	80/04/28	2039:35	2040:00	254	10964	1.17E+05		15	17, 2	DG
479	130	80/05/09	0711:05	0712:35	635	10800	6.94E+05	2418	15	20, 1	M
538	142	80/05/21	2053:35	2055:53	2376	14300	3.01E+06		15	21, 7	M, ES
634	156	80/06/04	0653:56	0654:37	279	35200	1.37E+06		15	25, 3	
688	159	80/06/07	0310:51	0312:15	691	39391	1.33E+06	2495	15	27, 4	M
762	173	80/06/21	0112:40	0118:40	1352	141391	4.14E+06		15	30, 3	
877	183	80/07/01	1624:59	1627:29	831	27235	2.60E+06		15	35, 1	M
1022	203	80/07/21	0253:43	0256:13	612	12443	7.99E+05		15	40, 7	M
1210	248	80/09/04	0155:05	0201:20	795	12860	1.11E+06		10	46, 11	
1311	283	80/10/09	1123:25	1124:55	1440	26608	1.83E+06	2726	5	50, 1	
1374	288	80/10/14	0557:50	0608:55	2110	39583			15	52, 6	M
1534	310	80/11/05	2232:10	2233:05	350	12730	4.61E+05		10	57, 6	
1543	311	80/11/06	0324:10	0348:00	7395	155347	7.39E+07		15	202, 2	IS, IN, EN
1563	312	80/11/07	0134:55	0204:55	2170	86574	1.18E+07		15	58, 8	M, EN
1661	317	80/11/12	0445:50	0452:00	1045	50219	4.17E+06		15	61, 15	M, EN
1702	320	80/11/15	1516:15	1543:30	2860	12939	5.65E+06		10	63, 5	M
1943	25	81/01/25	0744:15	0747:00	551	31930	2.35E+06		10	72, 2	M
1968	28	81/01/28	0409:35	0413:20	1101	10450	1.08E+06		12	72, 15	M
5844	51	81/02/20	0639:03	0645:51	2036	25356	5.90E+06		9	185, 10	M, I
2137	55	81/02/24	1932:45	1936:35	607	19518	3.43E+06		15	78, 15	M, EN
2153	57	81/02/26	1423:10	1425:55	497	22521	9.58E+05		15	79, 6	M
2293	91	81/04/01	0105:40	0146:04	3140	12450	7.20E+06		14	83, 1	EN
2299	92	81/04/02	1059:05	1106:40	985	14865	2.55E+06		12	83, 4	M
2373	100	81/04/10	1633:40	1651:15	1360	11879	3.63E+06		15	85, 10	M
2520	114	81/04/24	0135:50	0143:15	3342	11690	4.46E+06		5	90, 1	M, SN
2589	117	81/04/27	0740:55	0812:55	9052	56177	4.85E+07		15	198, 2	M
2604	124	81/05/04	0836:40	0838:45	711	19517	1.17E+06		14	92, 6	M
2907	200	81/07/19	0506:20	0533:50	3255	34086			14	101, 4	M, SA, EN
3030	207	81/07/26	1347:35	1352:25	663	56177	8.12E+06		15	105, 6	M
3074	209	81/07/28	2009:00	2010:00	598	11321	4.95E+05		9	106, 8	M
3193	222	81/08/10	0657:05	0658:55	579	12265	4.59E+05	3257	10	110, 5	
3211	224	81/08/12	0628:50	0629:15	1498	19518	2.01E+06	3257	5	110, 12	M, SN
3476	250	81/09/07	0509:10	0511:40	984	25878	1.39E+06		14	119, 12	
3520	253	81/09/10	0935:35	0940:45	610	28539	1.42E+06		11	121, 3	EN
* 3584	258	81/09/15	2110:15	2114:40	931	28212	3.10E+06		15	122, 14	EN
3659	280	81/10/07	2241:35	2301:35	6830	33669	1.05E+07		15	198, 4	M, ES, DG
3695	283	81/10/10	1247:30	1248:35	516	11434	3.10E+05		7	125, 15	M
3726	285	81/10/12	1034:30	1100:00	1896	12464	2.85E+06		5	127, 4	M, SA, EN
3794	287	81/10/14	1703:20	1706:30	232	44179	3.34E+06		15	128, 11	EN
4592	39	82/02/08	1249:55	1250:00	1224	31095	1.96E+06		15	151, 5	M, SN, SG
4965	89	82/03/30	0521:10	0537:14	1326	18903	6.47E+06		15	161, 1	SN
* 5189	156	82/06/05	0124:26	0128:54	1141	18017	1.04E+06		12	167, 9	M1, DG
* 5192	156	82/06/05	0613:31	0616:07	2120	20434	3.02E+06		12	167, 11	M1, EN
* 5199	156	82/06/05	1519:25	1529:18	1520	10152	1.39E+06		5	167, 15	M1
* 5220	157	82/06/06	1636:48	1639:21	3691	60382	1.40E+07		9	168, 6	M1, SN, EN
* 5344	166	82/06/15	0030:10	0030:40	1014	25304	8.50E+05		15	172, 1	M5
* 5356	166	82/06/15	1508:18	1512:39	621	20609	1.81E+06		15	172, 5	
* 5375	168	82/06/17	1048:19	1051:20	621	13904	1.02E+06		10	172, 14	M5
* 5414	171	82/06/20	0112:55	0113:32	411	13670	1.48E+05		10	174, 1	M5
5490	190	82/07/09	2105:38	2107:01	529	57078	1.19E+06		15	176, 6	M5
5580	193	82/07/12	0932:36	0945:57	7741	58007	4.10E+07		13	178, 11	M5, SA, EN

HXRBS EVENT	DOY	START DATE YY/MM/DD	START TIME HH:MM:SS	PEAK TIME HH:MM:SS	DURATION SEC	PEAK RATE C/S	TOTAL COUNTS	NOAA REGION #	MAX CH. #	FLARE TAPE#, FILE#	NOTES
5643	198	82/07/17	0202:13	0205:51	1189	21000	1.84E+06		9	180, 4	
* 6017	330	82/11/26	0217:52	0233:22	9999	22747	4.81E+06		15	189, 15	M5,SG,DG
6060	341	82/12/07	2335:30	2352:41	3539	23654	1.80E+07		15	190, 13	M5,SN,EN
6116	347	82/12/13	0320:52	0325:43	1602	12464	1.64E+06		15	191, 16	M5
6124	349	82/12/15	1626:19	1632:40	1465	81391	1.32E+07		13	199, 2	
6146	351	82/12/17	1854:40	1857:10	4059	108043	1.51E+07		15	199, 3	M5,SN,DG,EN
6152	352	82/12/18	0817:31	0822:02	1241	19095	1.56E+06		10	192, 16	M5,ND
6270	34	83/02/03	0550:25	0603:37	7389	46354	1.51E+07		15	199, 5	M5,SA,DG,IN,IS

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OF POOR QUALITY