



NASA SP-7036(01)

Section 2

Indexes

# REMOTE SENSING OF EARTH RESOURCES

(1970 - 1973 SUPPLEMENT)

A LITERATURE SURVEY WITH INDEXES

Section 2 • Indexes

FEBRUARY 1975

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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**NASA SP-7036 (01)**

**Section 2**

**Indexes**

# REMOTE SENSING OF EARTH RESOURCES

**A Literature Survey**

**With Indexes**

**(1970 - 1973 SUPPLEMENT)**

**Section 2 • Indexes**

A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced between March 1970 and December 1973 in

- *Scientific and Technical Aerospace Reports (STAR)*
- *International Aerospace Abstracts (IAA).*



*Scientific and Technical Information Office*

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

*Washington, D.C.*

1975

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Springfield, Virginia 22161 for \$5.00. For copies mailed to addresses outside the  
United States, add \$2.50 per copy for handling and postage.**

# INTRODUCTION

This literature survey cites 4930 reports, articles and other documents that were announced between March 1970 and December 1973 in *Scientific and Technical Aerospace Reports (STAR)* or in *International Aerospace Abstracts (IAA)*. This publication supplements *Remote Sensing of Earth Resources (NASA-SP-7036)* that cited documents announced between January 1962 and February 1970. Beginning in 1974, a quarterly publication, *Earth Resources, A Continuing Bibliography (NASA-SP-7041)* was initiated. The first issue, NASA-SP-7041(01), was published in June 1974 covering the documents announced between January 1974 and March 1974.

The coverage includes documents related to the identification and evaluation by means of sensors in spacecraft and aircraft of vegetation, minerals, and other natural resources, and the techniques and potentialities of surveying and keeping up-to-date inventories of such riches. It encompasses studies of such natural phenomena as earthquakes, volcanoes, ocean currents and magnetic fields; and such cultural phenomena as cities, transportation networks, and irrigation systems. Descriptions of the components and use of remote sensing and geophysical instrumentation, their subsystems, observational procedures, signature and analyses and interpretive techniques for gathering data are also included. Reports generated under NASA's Earth Resources Survey Program and announced during the period covered by this bibliography are included.

Because of the volume of citations, the *Abstract Section (Section 1)* and the *Index Section (Section 2)* are separately bound.

*Abstract Section (Section 1)*. The *Abstract Section* is divided into nine subject categories (see Table of Contents for scope note of each category). Each entry consists of a standard bibliographic citation accompanied, in most cases, by an abstract. Each of the citations has several data elements useful for identification and indexing purposes. Typical citations from *STAR* and *IAA* appear on page viii following the Table of Contents. The citations and abstracts are reproduced exactly as they appeared originally in *STAR*, or *IAA*, including the original accession numbers from the respective announcement journals. This procedure, which saves time and money, accounts for the variation in citation appearance.

Under each of the nine categories, the entries are presented in one of two groups that appear in the following order:

- *IAA* entries identified by accession number series A70-10,000 in ascending accession number order.
- *STAR* entries identified by accession number series N70-10,000 in ascending accession number order.

*Index Section (Section 2)*. The *Index Section* is divided into the following five indexes -- subject, personal author, corporate source, contract number and report/accession number. Typical index listings appear at the beginning of each index. The subject indexing that originally appeared in *STAR* or *IAA* has been augmented by the addition of geographical place names to improve the retrieval of such places in this publication.

# AVAILABILITY OF CITED PUBLICATIONS

## IAA ACCESSIONS (A70-10000 Numbers)

Publications announced in *IAA*, that are cited in this publication, are available from the Technical Information Service, American Institute of Aeronautics and Astronautics, Inc. (AIAA) as follows:

Paper copies are available at \$5.00 per document up to a maximum of 20 pages. The charge for each additional page is 25 cents. Microfiche<sup>(1)</sup> are available at the rate of \$1.50 per microfiche for documents identified by the # symbol following the accession number. A number of publications, because of their special characteristics, are available only for reference in the AIAA Technical Information Service Library. Minimum airmail postage to foreign countries is \$1.00. Please refer to the accession number, e.g. A73-11072, when requesting publications.

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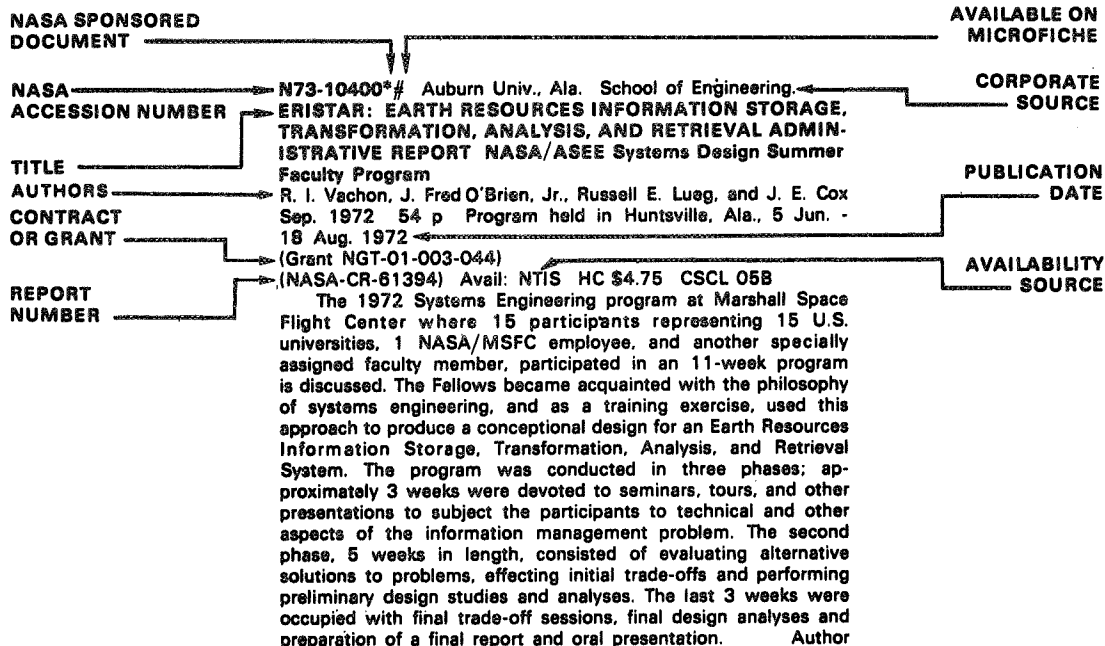
## Section 1 • Abstracts

<b>01 AGRICULTURE AND FORESTRY</b> Includes crop forecasts, crop signature analysis, soil identification, disease detection, harvest estimates, range resources, timber inventory, forest fire detection, and wildlife migration patterns.	<b>1</b>
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<b>03 GEODESY AND CARTOGRAPHY</b> Includes mapping and topography.	<b>157</b>
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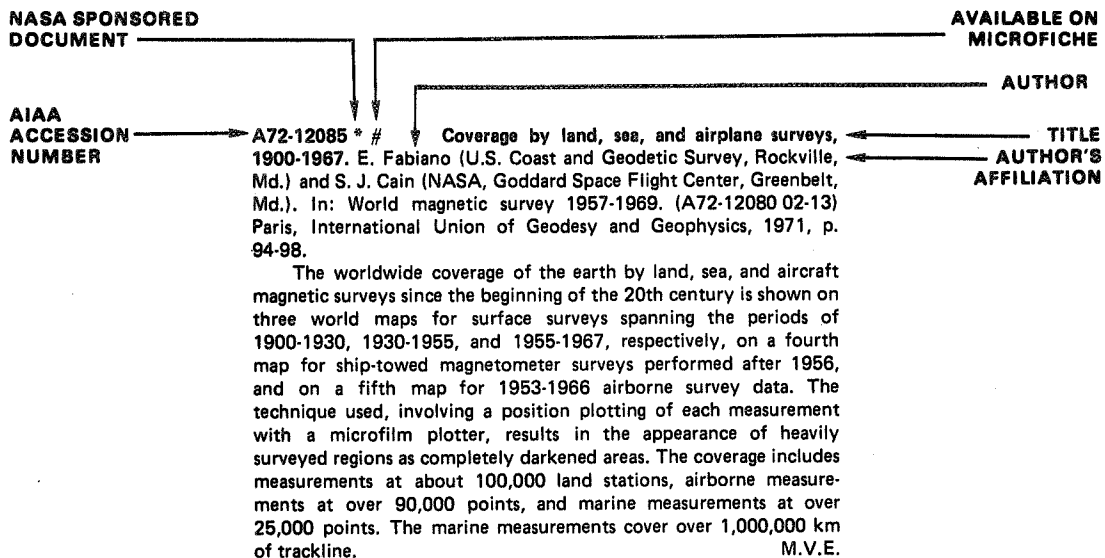
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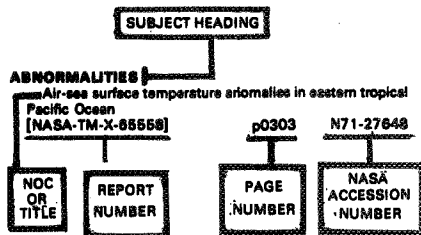
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## TYPICAL CITATION AND ABSTRACT FROM /AA



### Typical Subject Index Listing



The subject heading is a key to the subject content of the document. The Notation of Content (NOC), rather than the title of the document, is usually used to provide a more exact description of the subject matter. (AIAA occasionally uses the title in lieu of the NOC.) The report number helps to indicate the type of document cited (e.g., NASA report, translation, NASA contractor report). The page number indicates the page in the abstract section on which the citation is located. The NASA accession number denotes the number by which the citation is identified within the subject category. The NOC's are arranged under each subject heading in ascending accession number order.

### A

#### ABNORMALITIES

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#### ABSORPTANCE

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Cycocel induced changes in internal structure of cotton leaves to reflectance, transmittance, and absorbance of near infrared radiation p0027 N71-16151

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Absorption cell heterodyne method for nondispersive IR detection of trace gases with molecular vibrational-rotational spectrum [AIAA PAPER 71-1064] p0500 A72-10532

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- Radar imagery for crop discrimination, discussing sensor and data requirements and statistical analysis methods p0005 A70-31237
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- Optical filtering applied to aerial photointerpretation of oceanographic, archeologic and town planning data p0410 A70-34620
- Remote sensing in ecology--Conference, Madison, Wisconsin, June 1988 p0005 A70-35611
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- Remote sensing systems for vegetation analysis, discussing machine-aided photointerpretation methods for data analysis p0007 A71-11590
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p0420 A72-23300  
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p0474 A70-17415  
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p0083 A70-24740  
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Simulator for operating decision rules for control of airborne IR forest fire detection system  
p0010 A71-38409  
Remote sensing of chlorophyll and temperature in marine and fresh waters by spectroradiometer and differential and IR filter radiometers onboard airplane  
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p0015 A72-31250  
Sea surface temperature determination on Nimbus 2 satellite, using three channels in medium resolution IR radiometer  
p0287 A72-31674  
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p0096 A72-39717  
Nimbus limb radiometer, Apollo fine sun sensor, and Skylab multispectral scanner.  
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IR detector specifications, construction and applications to industry science and military  
p0513 A72-44393  
IR radiation source shape and size effects on aerial IR surveys at various flight altitudes, noting spectral composition change with height  
p0517 A73-17140  
Air quality monitoring instruments involving atmospheric pollution chemiluminescent reactions and CO IR, optical absorption and laser detectors  
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[AIAA PAPER 73-703] p0100 A73-36252  
Improvements brought to the measurement of the ocean surface temperature by utilization of a polarizing infrared radiometer  
p0293 A73-40142  
Book - The surveillance science: Remote sensing of the environment.  
p0103 A73-43605  
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[AD-703123] p0020 N70-36236  
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- Soviet laser spectroscopy applications including microsample chemical analysis, superhigh resolution problem, nonlinear optics devices, interferometric seismometer and air pollution analyzer  
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- Materials remote active sensing from ground, air and space by UV and visible laser induced luminescence, using excitation and emission spectral specificity for species identification  
p0603 A72-11822
- Soviet aerial survey techniques for natural resources data, discussing photograph interpretation, fast aerospectrometers, data processing and multispectrum cameras  
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- Papers on laser applications covering hydrography, metrology, geodesy, etc.  
p0508 A72-20220
- Laser applications in metrology and geodesy, discussing use of beam directionality for alignment purposes, interference patterns and interferometry, modulated light methods, optical Doppler methods, etc.  
p0171 A72-20222
- Air pollution monitoring with tunable lasers employing Raman scattering, resonantly excited or hot gases emission and resonant absorption  
p0094 A72-22313
- Electron, ion and laser beam technology - IEEE Conference, Boulder, Colorado, May 1971  
p0509 A72-23926
- Air pollution monitoring by remote optical sensing techniques based on light scattering measurements, noting suitability of high power laser probes  
p0095 A72-24100
- Laser application for remote analysis of gaseous air pollutants emission based on Raman scattering, resonance fluorescence or absorption measurements  
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- Southern corn leaf blight detectability by remote sensing based on pattern recognition technique application to multispectral color and IR photographic and scanner data  
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- Plant leaves light reflectance, transmittance and absorbance characteristics relationship to leaf mesophyll arrangement, considering interpretation of aircraft/spacecraft remotely sensed data  
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- Effects of leaf age for four growth stages of cotton and corn plants on leaf reflectance, structure, thickness, water and chlorophyll concentrations and selection of wavelengths for crop discrimination.  
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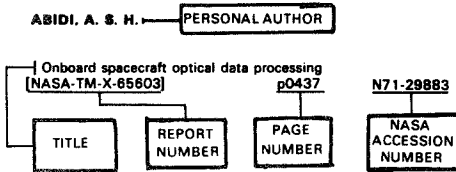
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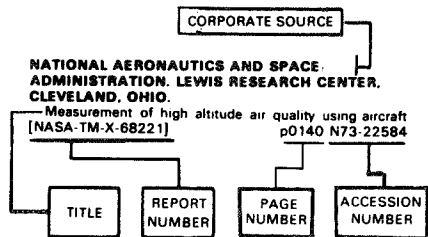
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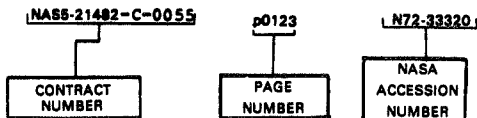


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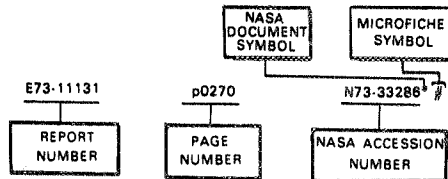
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AD-763222	p0078	N73-31381	#
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AD-763362	p0203	N73-30381	#
AD-763428	p0351	N73-32311	#
AD-763644	p0518	N73-26347	#
AD-763788	p0350	N73-31389	#
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AD-764246	p0570	N73-31375	AIAA PAPER 71-75	p0492	A71-18532	BMPR-1	p0376	N72-32383*
AD-764858	p0352	N73-33360	AIAA PAPER 71-815	p0497	A71-35428	BMPR-1	p0376	N72-32384*
AD-765421	p0080	N73-32309	AIAA PAPER 71-839	p0414	A71-35429	BMPR-1	p0181	N72-32385*
AD-768684	p0291	A73-38240	AIAA PAPER 71-841	p0496	A71-34712*	BMPR-1	p0044	N72-32388*
AED-R-3515F	p0435	N71-11594	AIAA PAPER 71-845	p0280	A71-34708	BMPR-1	p0448	N73-11167*
AED-R-3525	p0295	N70-27858	AIAA PAPER 71-976	p0416	A71-45294	BMPR-1	p0450	N73-13369*
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AEWES-MISC-PAPER-M-72-8	p0562	N73-18430	AIAA PAPER 71-1020	p0589	A71-44598	BMPR-2	p0377	N73-11289*
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AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 71-1073	p0089	A72-10535	BMPR-2	p0049	N73-14334*
AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 71-1075	p0090	A72-10536*	BMPR-2	p0328	N73-14335*
AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 71-1076	p0090	A72-18822	BMPR-2	p0328	N73-14335*
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AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 71-1084	p0090	A72-10540*	BMPR-2	p0633	N73-20365*
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AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 73-12	p0288	A73-17605	BMPR-4	p0139	N73-22286*
AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 73-207	p0288	A73-17606	BMPR-4	p0336	N73-24352*
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AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 73-703	p0520	A73-33557	BMPR-5	p0337	N73-24378*
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AFCL-ERP-368	p0548	N72-21394	AIAA PAPER 73-703	p0100	A73-36252*	BMPR-5	p0392	N73-24380*
AFHRL-TR-70-12	p0434	N71-10665	AINA-RP-80	p0368	N71-36747	BMPR-5	p0337	N73-24381*
AFOSR-70-2035TR	p0220	N70-41659	AINA-TR-1	p0619	N72-19989	BMPR-5	p0198	N73-24393*
AFOSR-70-2921TR	p0538	N71-21788	ANL/ES-CC-5	p0103	N70-27235	BMPR-5	p0635	N73-24394*
AFOSR-73-0980TR-VOL-1	p0643	N73-30370	ANL/ES-CC-5	p0103	N70-27235	BMPR-5	p0636	N73-24395*
AGARD-CP-28	p0179	N70-24859	APL-TG-1185-PT-1	p0192	N73-10881	BMPR-5	p0393	N73-24396*
AGARD-CP-44	p0179	N70-24859	APR-1	p0062	N73-22341*	BMPR-5	p0142	N73-24397*
AGARD-CP-77-70	p0300	N71-13701	APR-3	p0021	N70-41162*	BMPR-5	p0252	N73-25360*
AGARD-CP-90-71	p0545	N72-16085	APR-3	p0563	N73-22338*	BMPR-5	p0403	N73-31341*
AGARD-CP-90-71	p0545	N72-16085	APR-5	p0037	N72-28037*	BMPR-5	p0403	N73-32217*
AGC-SD-1335-1	p0103	N70-36219	APR-5	p0037	N72-28037*	BMPR-6	p0154	N73-32243*
AGC-1335-2	p0110	N72-14402	APTD-0672	p0107	N71-34340	BMPR-6	p0644	N73-32323*
AGC-1361R-1	p0225	N71-32418	APTD-0674	p0542	N71-35522	BMPR-7	p0400	N73-28218*
AGC-9016R-8	p0539	N71-25980	APTD-0675	p0036	N72-21458	BMPR-7	p0401	N73-28259*
AGC-9016R-8	p0539	N71-25980	APTD-0685	p0113	N72-32653	BMPR-7	p0350	N73-32226*
AGE-9016-R-7	p0302	N71-18888	APTD-0891	p0557	N72-33528	BMPR-7	p0351	N73-32240*
AIAA PAPER 68-1077	p0586	A71-17050*	APTD-0988	p0129	N72-33827	BMPR-7	p0203	N73-32241*
AIAA PAPER 70-193	p0474	A70-18083*	APTD-0988	p0129	N72-33827	BMPR-7	p0078	N73-32242*
AIAA PAPER 70-284	p0409	A70-22894	APTD-1147	p0129	N73-14876	BMPR-7	p0404	N73-32248*
AIAA PAPER 70-288	p0478	A70-22893	APTD-1451	p0154	N73-32501	BMPR-7	p0404	N73-32249*
AIAA PAPER 70-289	p0478	A70-22892*	AR-1	p0386	N73-18396*	BMR-1	p0049	N73-13367*
AIAA PAPER 70-292	p0409	A70-22891	ARA-8G72-F	p0386	N73-18396*	BMR-2	p0388	N73-20396*
AIAA PAPER 70-293	p0574	A70-22890	ARA-8G45-88-VOL-1	p0385	N71-14756	BMR-3	p0633	N73-20396*
AIAA PAPER 70-294	p0478	A70-22889	ARA-8G45-70-VOL-2	p0543	N71-37945*	BMR-4	p0458	N73-20349*
AIAA PAPER 70-294	p0488	A70-41871	ARA-8G45-70-VOL-3	p0438	N71-37946*	BMR-5	p0141	N73-24345*
AIAA PAPER 70-296	p0478	A70-22887	ARDG/E/-E-948	p0030	N71-24439	BMR-6	p0644	N73-32264*
AIAA PAPER 70-297	p0407	A70-22852	AROD-7166-1-EN	p0370	N72-17306	BMR-6	p0404	N73-32284*
AIAA PAPER 70-299	p0409	A70-22885*	AROD-8058-3-EN	p0043	N72-31443	BMR-8	p0348	N73-30274*
AIAA PAPER 70-301	p0274	A70-22884*	AROD-8140-1-EN	p0172	A72-39738	BMVG-FBWT-71-6	p0541	N71-32997
AIAA PAPER 70-302	p0573	A70-22883	AROD-8623-1-EN	p0381	N73-14402	BMVG-FBWT-71-7	p0304	N71-31790
AIAA PAPER 70-303	p0205	A70-22882	AROD-9064-2-EN	p0076	N73-29410	BNL-17478	p0570	N73-31417
AIAA PAPER 70-303	p0205	A70-22882	AROD-9928-2-EN	p0078	N73-31381	BSR-2829	p0215	N70-36486
AIAA PAPER 70-303	p0207	A71-17562*	ASC-14	p0532	N70-43121*	BSR-2941	p0431	N70-30925*
AIAA PAPER 70-304	p0573	A70-22881	BM-IC-8530	p0229	N72-27348	BSR-3129-VOL-1	p0314	N72-25334*
AIAA PAPER 70-305	p0083	A70-22875*	BM-IC-8530	p0251	N73-24432	BSR-3129-VOL-2	p0314	N72-25335*
AIAA PAPER 70-306	p0274	A70-22880	BMV-FBW-72-28	p0268	N73-31370	BSR-3489	p0128	N73-13334*
AIAA PAPER 70-308	p0002	A70-22879	BMI-171-135	p0122	N72-32422	BSR-3489	p0559	N73-14354*
AIAA PAPER 70-308	p0007	A71-11590	BMI-171-146	p0125	N73-12411	BSR-3681	p0457	N73-20413*
AIAA PAPER 70-309	p0157	A70-22878*	BMPR-1	p0315	N72-29275*	BSR-4010	p0134	N73-18331*
AIAA PAPER 70-309	p0411	A70-41851*	BMPR-1	p0121	N72-31361*	BSR-4014	p0458	N73-20343*
AIAA PAPER 70-310	p0274	A70-22877	BMPR-1	p0447	N72-32282*	BSR-4089	p0400	N73-29247*
AIAA PAPER 70-311	p0083	A70-22876	BMPR-1	p0122	N72-32376*	BULL-10	p0629	N73-14379
AIAA PAPER 70-312	p0001	A70-22868	BMPR-1	p0234	N72-32377*	BULL-118	p0230	N72-28365
AIAA PAPER 70-314	p0478	A70-22873	BMPR-1	p0234	N72-32378*	B70-02023	p0606	N70-27747*
AIAA PAPER 70-316	p0475	A70-22871	BMPR-1	p0626	N72-32379*	CAL-VT-2636-O-1	p0019	N70-24620
AIAA PAPER 70-317	p0475	A70-22870	BMPR-1	p0323	N72-32380*	CCR/29/71-F	p0617	N72-18311
AIAA PAPER 70-318	p0273	A70-22869	BMPR-1	p0323	N72-32381*	CERC-MISC-PAPER-3-72	p0458	N73-22368
AIAA PAPER 70-318	p0279	A71-17101	BMPR-1	p0044	N72-32382*			
AIAA PAPER 70-319	p0475	A70-22867						
AIAA PAPER 70-320	p0408	A70-22866*						
AIAA PAPER 70-320	p0411	A70-44514*						
AIAA PAPER 70-321	p0407	A70-22854						
AIAA PAPER 70-322	p0408	A70-22865						
AIAA PAPER 70-323	p0408	A70-22864						
AIAA PAPER 70-324	p0408	A70-22863						
AIAA PAPER 70-325	p0408	A70-22858						
AIAA PAPER 70-326	p0410	A70-29614						
AIAA PAPER 70-328	p0408	A70-22856						
AIAA PAPER 70-331	p0573	A70-22862						
AIAA PAPER 70-332	p0573	A70-22861						
AIAA PAPER 70-333	p0573	A70-22860						
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AIAA PAPER 70-335	p0001	A70-22855						
AIAA PAPER 70-344	p0573	A70-22859						
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E73-10067	p0131 N73-18329*	E73-10346	p0136 N73-18379*	E73-10451	p0388 N73-21299*
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E73-10070	p0241 N73-18332*	E73-10349	p0385 N73-18382*	E73-10454	p0457 N73-20413*
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E73-10073	p0051 N73-18335*	E73-10352	p0386 N73-18385*	E73-10457	p0247 N73-20416*
E73-10074	p0241 N73-18336*	E73-10353	p0455 N73-18386*	E73-10458	p0457 N73-20417*
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E73-10076	p0051 N73-18338*	E73-10355	p0455 N73-18388*	E73-10460	p0138 N73-20419*
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E73-10078	p0383 N73-18339*	E73-10357	p0386 N73-18390*	E73-10462	p0196 N73-21302*
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E73-10824	p0638 N73-28207*	E73-10931	p0348 N73-30274*	E73-11036	p0402 N73-31340*
E73-10825	p0639 N73-28389*	E73-10932	p0569 N73-30275*	E73-11037	p0350 N73-31341*
E73-10826	p0640 N73-28405*	E73-10933	p0348 N73-30276*	E73-11038	p0403 N73-32217*
E73-10827	p0462 N73-27299*	E73-10934	p0642 N73-30277*	E73-11039	p0268 N73-32218*
E73-10828	p0467 N73-28414*	E73-10935	p0076 N73-30278*	E73-11040	p0078 N73-32219*
E73-10829	p0256 N73-27300*	E73-10936	p0401 N73-30279*	E73-11041	p0402 N73-31342*
E73-10830	p0256 N73-27301*	E73-10937	p0401 N73-30280*	E73-11042	p0268 N73-31343*
E73-10831	p0395 N73-27302*	E73-10938	p0401 N73-30281*	E73-11043	p0471 N73-31344*
E73-10832	p0395 N73-27303*	E73-10939	p0264 N73-30282*	E73-11044	p0268 N73-32220*
E73-10833	p0069 N73-27304*	E73-10940	p0348 N73-30283*	E73-11045	p0153 N73-32221*
E73-10834	p0395 N73-27305*	E73-10941	p0284 N73-30284*	E73-11046	p0154 N73-32222*
E73-10835	p0262 N73-28415*	E73-10942	p0569 N73-30285*	E73-11047	p0268 N73-32223*
E73-10836	p0399 N73-28416*	E73-10943	p0076 N73-30286*	E73-11048	p0471 N73-32224*
E73-10837	p0150 N73-28417*	E73-10944	p0569 N73-30287*	E73-11049	p0268 N73-32225*
E73-10838	p0074 N73-28418*	E73-10945	p0569 N73-30288*	E73-11050	p0350 N73-32226*
E73-10839	p0641 N73-28419*	E73-10946	p0468 N73-30289*	E73-11051	p0078 N73-32227*
E73-10840	p0283 N73-28420*	E73-10947	p0468 N73-30290*	E73-11052	p0078 N73-32228*
E73-10841	p0201 N73-28421*	E73-10948	p0264 N73-30291*	E73-11053	p0269 N73-32229*
E73-10842	p0641 N73-28422*	E73-10949	p0076 N73-30292*	E73-11054	p0403 N73-32230*
E73-10843	p0150 N73-28423*	E73-10950	p0265 N73-30293*	E73-11055	p0154 N73-32231*
E73-10844	p0263 N73-28424*	E73-10951	p0202 N73-30294*	E73-11056	p0269 N73-32232*
E73-10845	p0347 N73-28425*	E73-10952	p0202 N73-30295*	E73-11057	p0471 N73-32233*
E73-10846	p0263 N73-28426*	E73-10953	p0469 N73-30296*	E73-11058	p0154 N73-32234*
E73-10847	p0201 N73-28427*	E73-10954	p0151 N73-30297*	E73-11059	p0154 N73-32235*
E73-10848	p0074 N73-28428*	E73-10955	p0401 N73-30298*	E73-11060	p0154 N73-32236*
E73-10849	p0074 N73-28429*	E73-10956	p0203 N73-30299*	E73-11061	p0154 N73-32237*
E73-10850	p0074 N73-28430*	E73-10957	p0285 N73-30300*	E73-11062	p0571 N73-32238*
E73-10851	p0347 N73-28431*	E73-10958	p0469 N73-30301*	E73-11063	p0078 N73-32239*
E73-10852	p0641 N73-29209*	E73-10959	p0285 N73-30302*	E73-11064	p0351 N73-32240*
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E73-10854	p0467 N73-28431*	E73-10961	p0642 N73-30304*	E73-11066	p0078 N73-32242*
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E73-10856	p0150 N73-28433*	E73-10963	p0151 N73-30306*	E73-11068	p0079 N73-32244*
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E73-10858	p0074 N73-28435*	E73-10965	p0642 N73-30308*	E73-11070	p0204 N73-32246*
E73-10859	p0467 N73-29210*	E73-10966	p0469 N73-30309*	E73-11071	p0571 N73-32247*
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E73-10861	p0074 N73-29212*	E73-10968	p0077 N73-31283*	E73-11073	p0079 N73-32249*
E73-10862	p0399 N73-29213*	E73-10969	p0265 N73-30311*	E73-11074	p0079 N73-32250*
E73-10863	p0263 N73-29214*	E73-10970	p0152 N73-30312*	E73-11075	p0079 N73-32251*
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E73-10865	p0347 N73-29216*	E73-10972	p0152 N73-31285*	E73-11077	p0471 N73-32253*
E73-10866	p0400 N73-29217*	E73-10973	p0402 N73-30313*	E73-11078	p0079 N73-32254*
E73-10867	p0400 N73-29218*	E73-10974	p0469 N73-30314*	E73-11079	p0471 N73-32255*
E73-10868	p0075 N73-29219*	E73-10975	p0152 N73-30315*	E73-11080	p0204 N73-32256*
E73-10869	p0468 N73-29220*	E73-10976	p0469 N73-30316*	E73-11081	p0403 N73-32257*
E73-10870	p0075 N73-29221*	E73-10977	p0571 N73-33243*	E73-11082	p0289 N73-33247*
E73-10871	p0468 N73-29222*	E73-10978	p0203 N73-31286*	E73-11083	p0404 N73-33248*
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E73-10875	p0263 N73-29226*	E73-10982	p0469 N73-31290*	E73-11087	p0155 N73-33252*
E73-10876	p0202 N73-29227*	E73-10983	p0349 N73-31291*	E73-11088	p0079 N73-33253*
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E73-10878	p0468 N73-29229*	E73-10985	p0152 N73-31293*	E73-11090	p0155 N73-33255*
E73-10879	p0468 N73-29230*	E73-10986	p0152 N73-31294*	E73-11091	p0269 N73-33256*
E73-10880	p0568 N73-29231*	E73-10987	p0080 N73-33244*	E73-11092	p0079 N73-33257*
E73-10881	p0075 N73-29232*	E73-10988	p0152 N73-31295*	E73-11093	p0079 N73-33258*
E73-10882	p0150 N73-29233*	E73-10989	p0470 N73-31296*	E73-11094	p0403 N73-33259*
E73-10883	p0075 N73-29234*	E73-10990	p0152 N73-31297*	E73-11095	p0351 N73-33260*
E73-10884	p0641 N73-29235*	E73-10991	p0266 N73-31298*	E73-11096	p0269 N73-33261*
E73-10885	p0202 N73-29236*	E73-10992	p0402 N73-31299*	E73-11097	p0471 N73-33262*
E73-10886	p0151 N73-29418*	E73-10993	p0203 N73-31300*	E73-11098	p0155 N73-33263*
E73-10887	p0642 N73-29419*	E73-10994	p0203 N73-31301*	E73-11099	p0351 N73-33264*
E73-10888	p0400 N73-29237*	E73-10995	p0643 N73-31302*	E73-11100	p0269 N73-33265*
E73-10889	p0641 N73-29238*	E73-10996	p0349 N73-31303*	E73-11101	p0080 N73-33266*
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E73-10893	p0075 N73-29242*	E73-11000	p0644 N73-31306*	E73-11105	p0270 N73-33270*
E73-10894	p0202 N73-29243*	E73-11001	p0470 N73-31307*	E73-11106	p0472 N73-33271*
E73-10895	p0075 N73-29244*	E73-11002	p0267 N73-31308*	E73-11107	p0270 N73-33272*
E73-10896	p0568 N73-29245*	E73-11003	p0402 N73-31309*	E73-11108	p0155 N73-33273*
E73-10897	p0568 N73-29246*	E73-11004	p0350 N73-31310*	E73-11109	p0080 N73-33274*
E73-10898	p0400 N73-29247*	E73-11005	p0470 N73-31311*	E73-11110	p0404 N73-33275*
E73-10899	p0641 N73-29248*	E73-11006	p0402 N73-31312*	E73-11111	p0155 N73-33276*
E73-10900	p0284 N73-29249*	E73-11007	p0569 N73-31313*	E73-11112	p0155 N73-33277*
E73-10901	p0347 N73-29250*	E73-11008	p0569 N73-31314*	E73-11113	p0155 N73-33278*
E73-10902	p0347 N73-29251*	E73-11009	p0267 N73-31315*	E73-11114	p0155 N73-33279*
E73-10903	p0400 N73-29252*	E73-11010	p0402 N73-31316*	E73-11115	p0472 N73-33280*
E73-10904	p0641 N73-29253*	E73-11011	p0569 N73-31317*	E73-11116	p0571 N73-33281*
E73-10905	p0075 N73-29254*	E73-11012	p0571 N73-32216*	E73-11117	p0644 N73-33282*
E73-10906	p0150 N73-29255*	E73-11013	p0350 N73-31319*	E73-11118	p0204 N73-33283*
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E73-10908	p0076 N73-29257*	E73-11015	p0077 N73-31321*	E73-11120	p0472 N73-33285*
E73-10909	p0151 N73-29258*	E73-11016	p0153 N73-31322*	E73-11121	p0404 N73-33286*
E73-10910	p0401 N73-29259*	E73-11017	p0470 N73-31323*	E73-11122	p0081 N73-33287*
E73-10911	p0347 N73-29260*	E73-11018	p0267 N73-31324*	E73-11123	p0270 N73-33288*
E73-10912	p0468 N73-29261*	E73-11019	p0470 N73-31325*	E73-11124	p0270 N73-33289*
E73-10913	p0151 N73-29262*	E73-11020	p0470 N73-31326*	E73-11125	p0081 N73-33290*
E73-10914	p0468 N73-29263*	E73-11021	p0470 N73-31327*	E73-11126	p0270 N73-33291*
E73-10915	p0151 N73-29264*	E73-11022	p0267 N73-31328*	E73-11127	p0644 N73-33292*
E73-10916	p0202 N73-29265*	E73-11023	p0470 N73-31329*	E73-11128	p0404 N73-33293*
E73-10917	p0568 N73-29266*	E73-11024	p0267 N73-31330*	E73-11129	p0270 N73-33294*
E73-10918	p0284 N73-29267*				
E73-10919	p0284 N73-29268*				

E73-11131	p0270	N73-33286*	H-REPT-92-1452	p0628	N72-32967 #	JPRS-59391	p0566	N73-27108 #
E73-11132	p0472	N73-33287*				JPRS-59650	p0636	N73-27754 #
E73-11133	p0081	N73-33288*	HEL-1-18	p0312	N72-18440 #	JPRS-59739	p0643	N73-30317 #
E73-11134	p0270	N73-33289*				J62443-6	p0450	N73-12390*
E73-11135	p0361	N73-33290*	HIG-WRRC-4	p0362	N70-26269 #	KU-RSL-254-1	p0571	N73-32238* #
E73-11136	p0270	N73-33291*				L-1034	p0120	N72-30357 #
E73-11137	p0644	N73-33292*	HIG-70-5	p0297	N70-36303 #	L-1047	p0382	N73-15419 #
E73-11138	p0472	N73-33293*	HIG-70-16	p0221	N71-14758 #	L-7436	p0541	N71-29910*
E73-11139	p0204	N73-33294*				LAFE-126	p0221	N71-16552 #
E73-11140	p0270	N73-33295*	HPR-2	p0338	N73-25354* #	LAFE-132	p0028	N71-15653 #
E73-11141	p0572	N73-33296*				LAFE-133	p0104	N71-14877 #
E73-11142	p0472	N73-33297*	HS-324-5214	p0565	N73-25474* #	LAFE-133-VOL-2	p0104	N71-15546 #
E73-11143	p0155	N73-33298*	HS-324-5214-VOL-2	p0559	N73-14430* #	LARS-INFORM-NOTE-022773	p0151	N73-29385* #
E73-11145	p0081	N73-33299*				LARS-INFORM-NOTE-030573	p0063	N73-22344* #
E73-11146	p0351	N73-33300*	IAEE-7207	p0393	N73-24454 #	LARS-INFORM-NOTE-031673	p0458	N73-22333* #
E73-11147	p0351	N73-33301*				LARS-INFORM-NOTE-032973	p0140	N73-22334* #
E73-11148	p0270	N73-33302*	IARSL-73-1	p0078	N73-31357* #	LARS-INFORM-NOTE-080372	p0132	N73-16423* #
E73-11149	p0204	N73-33303*	IARSL-73-2	p0077	N73-31321* #	LARS-PRINT-030772	p0581	N73-16489* #
E73-11150	p0156	N73-33304*				LARS-PRINT-060272	p0054	N73-16428* #
E73-11151	p0271	N73-33305*	IFA-SR-25	p0296	N70-35160 #	LARS-PRINT-100272	p0051	N73-18064* #
E73-11152	p0472	N73-33306*	IFA-SR-27	p0296	N70-35160 #	LARS-PRINT-100372	p0054	N73-16434* #
E73-11153	p0352	N73-33307*				LARS-PRINT-101472	p0054	N73-16435* #
E73-11154	p0352	N73-33308*	IFA-STR-23	p0404	N73-32298 #	LARS-PRINT-102372	p0053	N73-16420* #
E73-11155	p0081	N73-33309*				LARS-PRINT-110872	p0053	N73-16424* #
E73-11156	p0156	N73-33310*	IFA-TR-26	p0296	N70-35569 #	LARS-PRINT-111072	p0063	N73-22348* #
E73-11157	p0352	N73-33311*				LARS-PRINT-111172	p0053	N73-16422* #
E73-11158	p0644	N73-33312*	IFUGL-BULL-1	p0372	N72-28372 #	LARS-PRINT-111272	p0054	N73-16425* #
E73-11160	p0404	N73-33313*	IFUGL-BULL-4	p0396	N73-27322 #	LARS-PRINT-111372	p0053	N73-16421* #
E73-11161	p0404	N73-33314*				LARS-PRINT-120371	p0561	N73-16495* #
E73-11162	p0204	N73-33315*	IIEQ-71-3	p0110	N72-17310 #	LARS-022673	p0564	N73-24485* #
E73-11163	p0081	N73-33316*				LARS-022873	p0140	N73-22347* #
E73-11164	p0352	N73-33317*	INFORM-NOTE-021072	p0561	N73-16494* #	LARS-030273	p0248	N73-22346* #
E73-11165	p0405	N73-33318*	INFORM-NOTE-030872	p0631	N73-16947* #	LARS-030373	p0460	N73-24411* #
FAA-RD-72-110	p0339	N73-25412 #	IPR-1	p0178	N70-18462* #	LARS-092872	p0449	N73-11301* #
FIS-40	p0642	N73-29279* #				LARS-092872	p0378	N73-12331* #
FMR-X-35	p0043	N72-31379 #	IPST-5669	p0547	N72-17562 #	LARS-100972	p0056	N73-18376* #
FMR-X-38	p0042	N72-31374 #	IPST-5761	p0642	N73-29339 #	LARS-111672	p0134	N73-17516* #
FMR-22	p0443	N72-28374 #	IR-USGS-191	p0106	N71-24087* #	LC-72-180875	p0630	N73-16348* #
FOA-2-C-2365-52	p0542	N71-35332 #	IR-USGS-194	p0106	N71-24086* #	LC-72-600108	p0562	N73-18437* #
FR-1	p0532	N71-10348* #	IR-USGS-205	p0107	N71-26798* #	LC-72-600226	p0628	N73-13629* #
FR-2	p0110	N72-14402 #	IR-USGS-229	p0438	N71-38013 #	LC-73-170325	p0618	N72-18331* #
			IR-USGS-236	p0377	N72-33371 #	LC-73-600090	p0638	N73-27816* #
FS-1-1	p0043	N72-32337* #	IR-1	p0530	N70-30415 #	LC-73-600115	p0638	N73-28207* #
FS-1-3	p0058	N73-20369* #	IR-1	p0381	N73-14350* #	LC-74-190299	p0314	N72-26272* #
FS-2-1	p0054	N73-17296* #	IR-1	p0069	N73-27357 #	LC-75-190389	p0372	N72-26290* #
			IR-2	p0256	N73-27356 #			
FSC-70-5269	p0532	N71-10652* #	IR-2	p0155	N73-33298* #			
FSC-71-8011	p0110	N72-17272 #	IR-3	p0569	N73-30373 #			
			IR-165	p0225	N71-33374* #			
FSRP-INT-93	p0543	N72-10396 #	IS-TR-28-2-73	p0347	N73-28463 #	LCR-DR-1-71-210/1/R	p0563	N73-22157 #
FSRP-INT-126	p0046	N73-10999 #				M-107	p0460	N73-24410* #
FSRP-RM-67	p0031	N71-34400 #	ISA/HQ-73-150	p0342	N73-27373 #	MCFU-CONTRIB-25	p0392	N73-23512 #
FSTC-HT-23-129-73	p0563	N73-19417 #	ISBN-87-7478-039-5	p0548	N72-20409 #	MCR-69-286	p0535	N71-13474* #
FSTC-HT-23-398-68	p0362	N70-18469 #	ISBN-91-540-2041-7	p0134	N73-17525 #	MCR-69-376	p0535	N71-13477* #
FSTC-HT-23-553-68	p0028	N71-17834 #	ISR-45	p0528	N70-20048 #	MCR-73-62	p0248	N73-22308 #
FSTC-HT-23-732-68	p0021	N70-40222 #	ISWRIR-37	p0440	N72-17311 #	MEMO-72/4	p0450	N73-12903* #
FSTC-HT-23-740-68	p0178	N70-16958 #	ITR-5	p0436	N71-23305 #	ML-71004	p0302	N71-21938 #
FSTC-HT-23-801-71	p0188	N72-22421 #	J-PAPER-4927	p0053	N73-16420* #	MPR-1	p0063	N73-23447* #
FSTC-HT-23-1101-68	p0179	N70-20494 #	J-PAPER-4929	p0053	N73-16422* #	MPR-1	p0255	N73-27257* #
FSTC-HT-23-1757-72	p0458	N73-22413 #	J-PAPER-4930	p0054	N73-16425* #	MPR-2	p0067	N73-27237* #
			J-PAPER-4931	p0053	N73-16421* #	MPR-2	p0263	N73-29214* #
FTD-HC-23-368-71	p0227	N72-14400 #	J-SER-1070	p0624	N72-29341* #	MPR-2	p0151	N73-29262* #
FTD-HC-23-671-70	p0183	N71-26267 #	JPL-TM-33-405	p0536	N71-16143* #	MPR-3	p0266	N73-31304* #
FTD-HT-23-63-70	p0214	N70-32363 #	JPL-TM-33-425	p0528	N70-21426* #	MPR-3	p0153	N73-31322* #
FTD-HT-23-505-70	p0183	N71-25123 #	JPL-TM-33-453	p0532	N70-41107* #	MPR-4	p0351	N73-32262* #
FTD-HT-23-1866-72	p0067	N73-26414 #	JPL-TM-33-605	p0198	N73-24412* #	MPR-4	p0068	N73-27258* #
FTD-MT-24-241-68	p0295	N70-29756 #	JPRS-49432	p0178	N70-18289 #	MPR-4	p0467	N73-29215* #
FTD-MT-24-442-69	p0530	N70-32636 #	JPRS-50035	p0180	N70-27252 #	MPR-4	p0075	N73-29244* #
FTD-MT-24-1867-72	p0074	N73-28931 #	JPRS-50267	p0529	N70-26469 #	MPR-4	p0349	N73-31303* #
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