NASA Institute for Space Studies

THEMATIC MAPPER STUDIES
BAND CORRELATION ANALYSIS

Stephen G. Ungar
Richard Kiang

April 1976

GODDARD SPACE FLIGHT CENTER

NASA Institute for Space Studies

THEMATIC MAPPER STUDIES
BAND CORRELATION ANALYSIS

Stephen G. Ungar
Richard Kiang

April 1976

GODDARD SPACE FLIGHT CENTER

GISS THEMATIC MAPPER BAND CORRELATION STUDY

Spectral data representative of Thematic Mapper candidate bands 1 and 3-7 were obtained by selecting appropriate combinations of bands from the JSC 24-Channel Multispectral Scanner, as indicated in Table 1. These data represent a rather limited, but nevertheless diversified set of crop conditions as indicated in Table 2. Of all the bands assigned, only candidate bands 4 (.74μ - .80μ) and 5 (.80μ - .91μ) showed consistently high inter-correlation from region to region and time to time. This extremely high correlation persisted when looking at the composite data set in a multi-temporal, multi-location domain. The GISS investigations lend positive confirmation to the hypothesis advanced by DeGasparis, Tucker and others that TM Bands 4 and 5 are redundant.

JSC 24-Channel MSS data were used to construct simulated TM bands, as indicated in Table 1, for a series of interband correlation studies. Note that TM band 2 was not simulated since the 24-Channel MSS detector most closely corresponding to this wavelength range was malfunctioning. The data used in these studies were acquired along a flight line selected from each of the four dates (two Intensive Test Sites). These data were considered in joint investigations into spatial degradation conducted by LARS, Earth Resources Laboratory (ERL) and GISS. A breakdown of the dates and sites, indicating the number of pixels, amount of area and crop mix is given in Table 2.

Shadowing and look angle effects tend to introduce correlations into the data which are not inherent in the ground scenes. In order

SIMULATION OF THEMATIC MAPPER BANDS WITH JSC 24-CHANNEL MSS

PROPOSED THEMATIC MAPPER		24 CHANNEL MSS
BAND	RANGE (μ)	RANGE USED
1.	.45 - .52	.46 - .50
3.	.63 - .69	.64 - .68
4.	.74 - .80	.76 - .80
5.	.80 - .91	.82 - .87
6.	1.55 - 1.75	1.52 - 1.73
7.	10.4 - 12.5	10.1 - 11.0 11.0 - 12.0

TABLE 1.

CHARACTERISTICS OF SITES STUDIED WITH 24-CHANNEL MSS DATA

DATE/SITES	NO. OF PIXELS	AREA	ESTIMATED CROP MIX OF TEST SITE COVERED
Finney Co., KS 6-9-75 Flight Line # 1	1,544,200	19.39 sq. mi.	Wheat (24%) Alfalfa (18%) Recently Planted (40%) Summer Fallow (12%) Other (6%)
Williams Co., ND 6-22-75 Flight Line # 2	1,384,600	17.38 sq. mil	Wheat (35%) Grass/Pasture (21%) Summer Fallow (32%) Other (11%)
Finney Co., KS 7-6-75 Flight Line # 1	1,764,000	22.15 sq. mi.	Wheat (24%) Alfalfa (18%) Corn (19%) Grain Sorghum (21%) Fallow (12%) Other (6%)
Williams Co., ND 8-15-75 Flight Line # 2	1,314,600*	16.5 sq. mi.	Wheat (35%) Grass/Pasture (21%) Summer Fallow (32%) Other (11%)

*The three segments composing this flight line are populated as follows:

Part	I	438,200 pixels
	II	438,200 pixels
	III	438,200 pixels

TABLE 2

to compensate for this, unit color-vectors were constructed for each pixel by the following formula:

$$N_i' = N_i / \sqrt{\sum_{j=1}^{4} N_j^2}$$

where N_i' is the *normalized* count in the ith band. Correlation studies were conducted using both the raw and normalized (albedo compensated) data. Figures 1 through 4 represent results on a site by site and date by date basis. Note that except for cases of extremely high correlation the unit-vector representation tends to lower interband correlation (and strengthen anti-correlation) by removing some of the systematic variation in apparent albedo due to causes other than changes in ground reflectance (e.g., look angle effects, variation in instrument voltages). The albedo compensated correlations are more indicative of band redundancy than the uncompensated correlations.

The correlation coefficient in these figures was derived in the customary manner assuming linear interband relations:

$$r_{ij} = \frac{n \sum_{k=1}^{n} N_i^k N_j^k - \sum_{k=1}^{n} N_i^k \sum_{k=1}^{n} N_j^k}{\sqrt{n \sum_{k=1}^{n} \{(N_i^k)^2\} - \{\sum_{k=1}^{n} N_i^k\}^2} \sqrt{n \sum_{k=1}^{n} \{(N_j^k)^2\} - \{\sum_{k=1}^{n} N_j^k\}^2}}$$

In order to examine the statistical validity of the derived correlation coefficients, each line was divided into several segments of approximately equal length. Individual segment results are presented for the August 15, Williams County flight line in Figure 5. The relative interband correlations remain completely consistent from segment to segment. This spatial consistency of

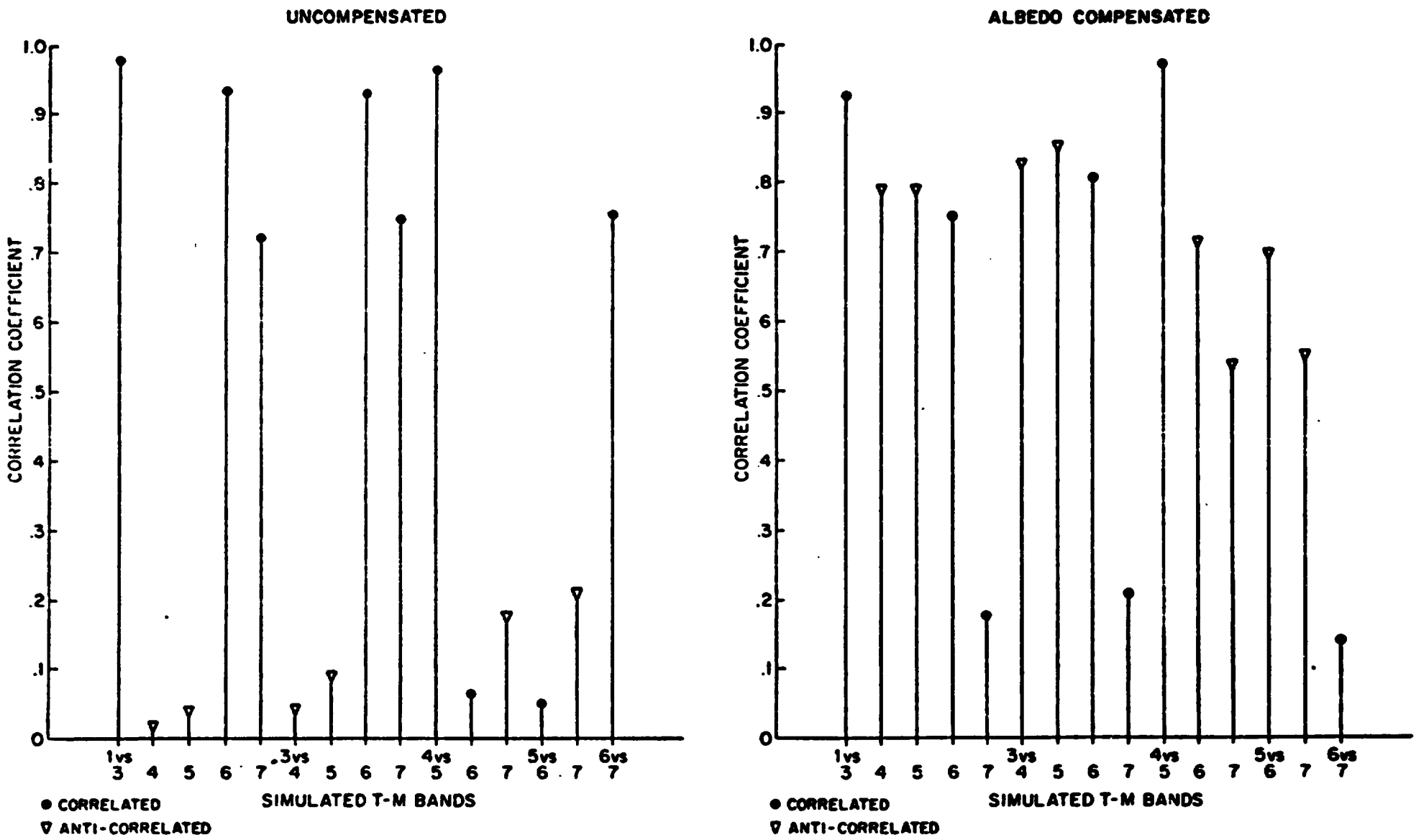
FINNEY COUNTY, KANSAS - FLIGHT LINE #1 - 6/9/75
UNCOMPENSATED
ALBEDO COMPENSATED
CORRELATION COEFFICIENT
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
1vs 3 4 5 6 7
3vs 4 5 6 7
4vs 5 6 7
5vs 6 7
6vs 7
SIMULATED T-M BANDS
● CORRELATED
▽ ANTI-CORRELATED

Figure 1

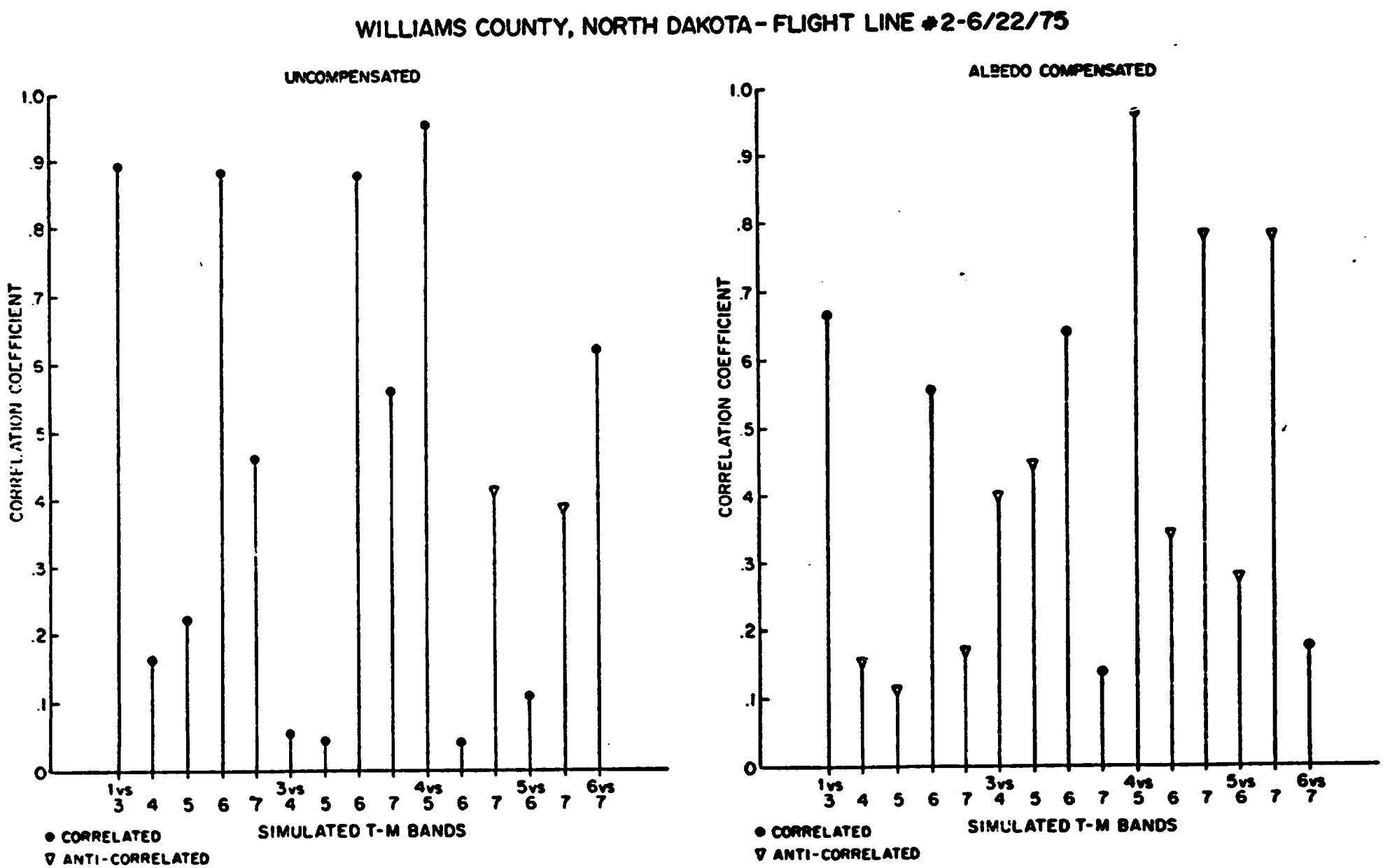
WILLIAMS COUNTY, NORTH DAKOTA - FLIGHT LINE #2-6/22/75
UNCOMPENSATED
ALBEDO COMPENSATED
CORRELATION COEFFICIENT
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
1vs 3 4 5 6 7
3vs 4 5 6 7
4vs 5 6 7
5vs 6 7
6vs 7
SIMULATED T-M BANDS
● CORRELATED
▽ ANTI-CORRELATED

Figure 2

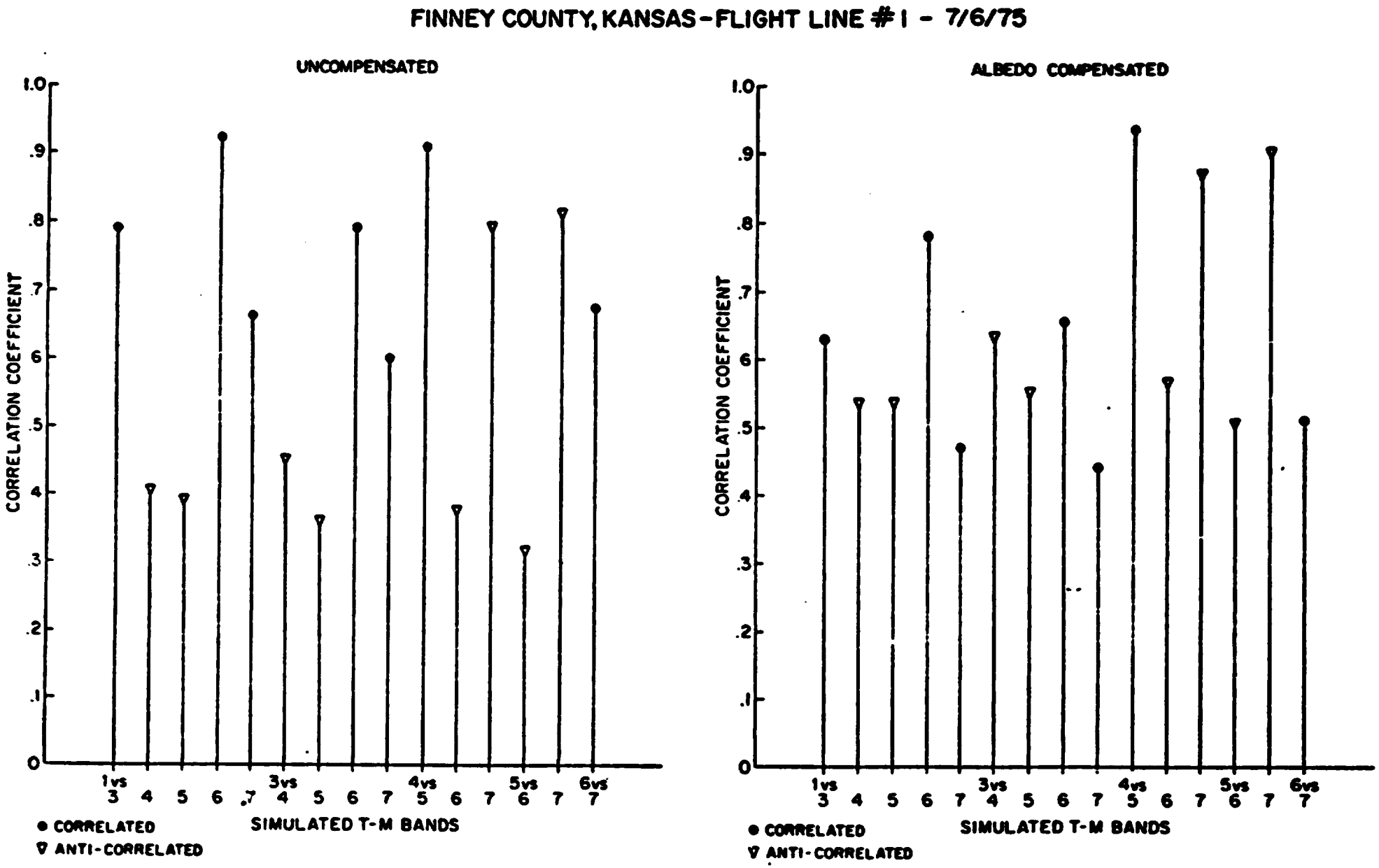
FINNEY COUNTY, KANSAS - FLIGHT LINE #1 - 7/6/75
UNCOMPENSATED
ALBEDO COMPENSATED
CORRELATION COEFFICIENT
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
1vs 3 4 5 6 7
3vs 4 5 6 7
4vs 5 6 7
5vs 6 7
6vs 7
SIMULATED T-M BANDS
● CORRELATED
▽ ANTI-CORRELATED

Figure 3

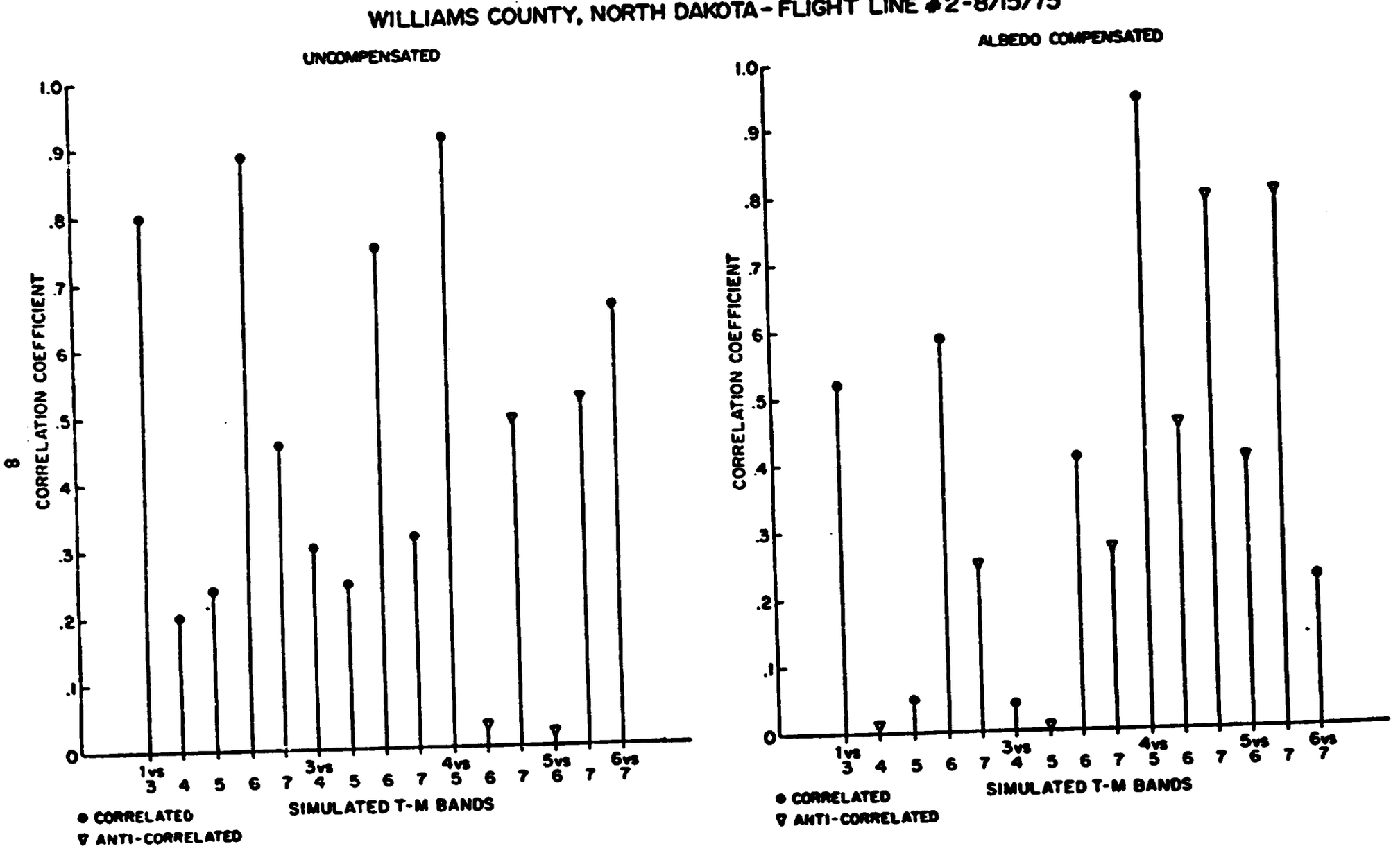
WILLIAMS COUNTY, NORTH DAKOTA - FLIGHT LINE #2-8/15/75
UNCOMPENSATED
ALBEDO COMPENSATED
CORRELATION COEFFICIENT
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
1vs 3 4 5 6 7 3vs 4 5 6 7 4vs 5 6 7 5vs 6 7 6vs 7
SIMULATED T-M BANDS
● CORRELATED
▽ ANTI-CORRELATED

Figure 4

WILLIAMS COUNTY, N.D. - FLIGHT LINE #2 - 8/15/75

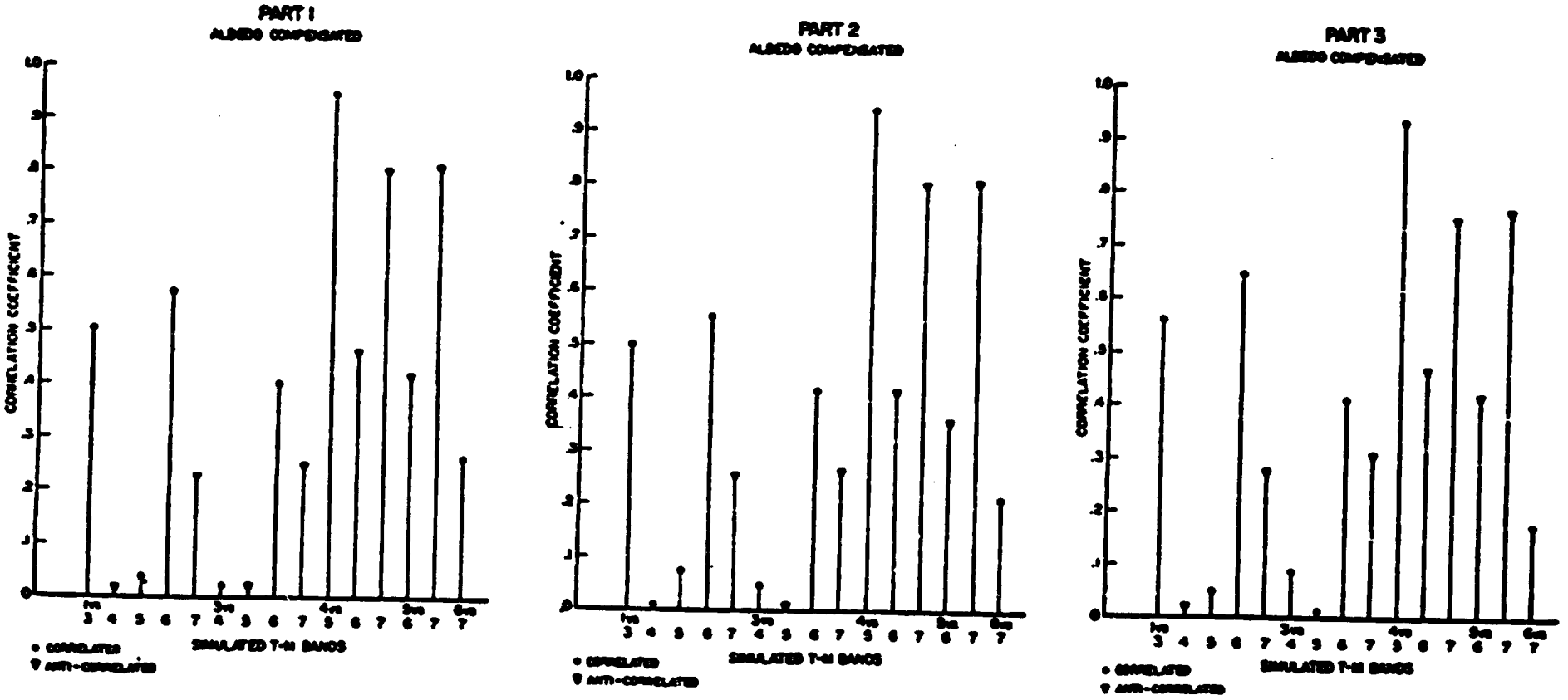

Figure 5

results was also present among the four segments of the July, Finney County flight line. However, the June 9, Finney County flight line and the June 22, Williams County flight line each displayed one anomalous segment. In both instances the segments contained appreciable cloud cover as compared to the uniformly cloud free condition for all other areas considered in this study.

The effect of cloud cover and shadow on interband correlation will be the subject of a future report.

Figure 6 represents the multi-geographic, multi-temporal data set formed by the union of all 4 data sets in the study. This data set is composed of some six million pixels representing crops such as spring and winter wheat, corn, grain sorghum, alfalfa and pasture at up to five stages of maturity.

Conclusions:

Arguments appearing in a GSFC report dated December, 1975 issued by J. Harnage through ERPO conclude that Thematic Mapper Bands 4 and 5 are highly redundant. These findings are based on laboratory and field spectra obtained under a highly restrictive set of conditions. Although these arguments are convincing when taken in context, they constitute a hypothesis when extrapolated to a multi-spectral scanner such as Thematic Mapper. Investigations by GISS using real MSS data under a variety of conditions may be considered an independent test of this hypothesis. Although the MSS data used represent a rather limited mix of cropping practices, the agricultural situations represented are precisely the

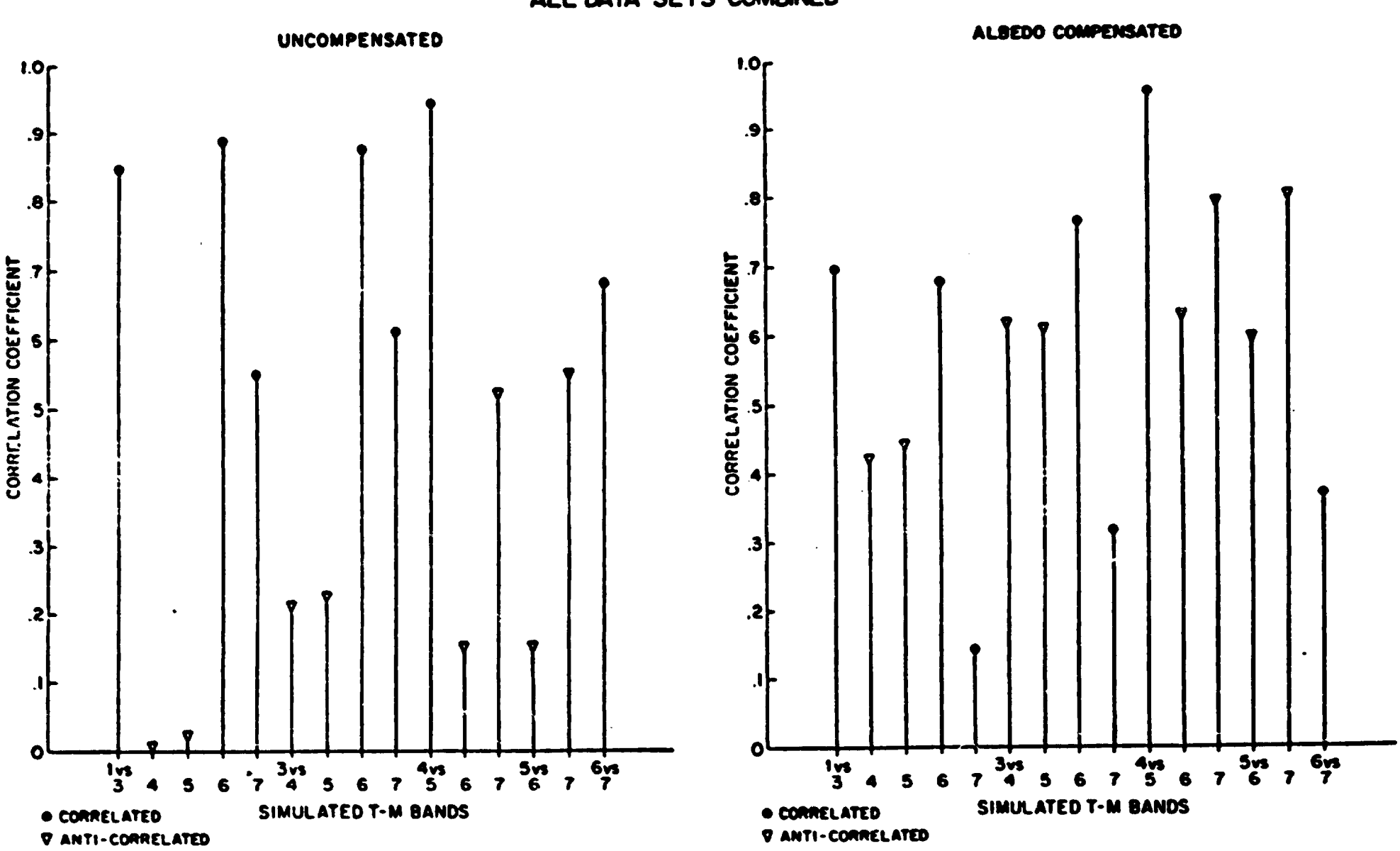
ALL DATA SETS COMBINED
UNCOMPENSATED
ALBEDO COMPENSATED
CORRELATION COEFFICIENT
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
1vs 3 4 5 6 7
3vs 4 5 6 7
4vs 5 6 7
5vs 6 7
6vs 7
SIMULATED T-M BANDS
● CORRELATED
▽ ANTI-CORRELATED

Figure 6

ones which have been heavily emphasized for consideration of Thematic Mapper design. The GISS findings are significant, and supportive of the contention that TM Bands 4 and 5 are highly redundant.

Appendix

Linear Correlation Coefficients 24 Channel MSS Data

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.968873	0.918086	0.001115	0.940397	0.940236	0.366520	0.052439	-0.008576	0.170974	0.590976	0.850348
2	0.968873	1.000000	0.973443	0.000541	0.982667	0.979176	0.335054	0.008590	-0.037563	0.170563	0.606427	0.911885
3	0.918086	0.973443	1.000000	-0.000891	0.982376	0.977426	0.300370	-0.021155	-0.044574	0.179180	0.602169	0.931298
4	0.001115	0.000541	-0.000891	1.000000	-0.000436	-0.000286	-0.000243	-0.001183	-0.001132	-0.001413	-0.000580	-0.000472
5	0.940097	0.982667	0.982376	-0.000436	1.000000	0.994202	0.310073	-0.007567	-0.055109	0.156466	0.598057	0.928486
6	0.940236	0.979176	0.977426	-0.000286	0.994202	1.000000	0.281873	-0.049199	-0.094946	0.121419	0.575976	0.924863
7	0.366520	0.335054	0.300370	-0.000243	0.310073	0.281873	1.000000	0.894272	0.878580	0.915047	0.771812	0.383539
8	0.052439	0.008590	-0.021155	-0.001183	-0.007567	-0.049199	0.894272	1.000000	0.961210	0.856749	0.585072	0.068726
9	-0.008576	-0.037563	-0.044574	-0.001132	-0.055109	-0.094946	0.878580	0.961210	1.000000	0.950235	0.598868	0.059800
10	0.170974	0.170563	0.179180	-0.001413	0.156466	0.121419	0.915047	0.856749	0.950235	1.000000	0.752166	0.306273
11	0.590976	0.606427	0.602169	-0.000580	0.598057	0.575976	0.771812	0.585072	0.598868	0.752166	1.000000	0.686419
12	0.850348	0.911885	0.931298	-0.000472	0.928486	0.924863	0.383539	0.068726	0.059800	0.306273	0.686419	1.000000
13	0.878129	0.942531	0.943793	-0.000382	0.951670	0.951556	0.301462	-0.008970	-0.036226	0.198160	0.641130	0.950245
14	0.742549	0.788433	0.806681	-0.000462	0.816965	0.821935	0.114828	-0.171356	-0.202876	0.005462	0.440204	0.796273
15	-0.017598	-0.020332	-0.025834	-0.001034	-0.022446	-0.020174	-0.005502	-0.003498	-0.004410	-0.011552	-0.014749	-0.024155
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.513297	0.554697	0.578053	-0.003633	0.593538	0.596295	0.030056	-0.174707	-0.203376	-0.036568	0.332057	0.614503
18	0.403541	0.441143	0.466119	-0.003668	0.482097	0.484258	-0.000126	-0.166210	-0.193534	-0.054268	0.263811	0.505464
19	0.472589	0.511933	0.537862	-0.003806	0.556607	0.557638	0.039740	-0.147919	-0.177654	-0.024837	0.314541	0.577690
20	0.636976	0.687757	0.709030	-0.003029	0.725623	0.727325	0.064658	-0.160317	-0.192343	-0.000479	0.407476	0.736806
21	0.648916	0.707354	0.721952	-0.002767	0.745493	0.748255	0.075532	-0.181957	-0.216405	-0.020001	0.398981	0.750971
22	0.503447	0.553512	0.558958	-0.001554	0.585410	0.588597	0.042069	-0.172262	-0.195086	-0.041323	0.293831	0.587122
23	0.502257	0.470062	0.417461	-0.000495	0.449364	0.427262	0.909302	0.759755	0.757900	0.852000	0.843188	0.540896
24	0.028494	0.060277	0.114626	-0.002026	0.055170	0.017008	0.792152	0.817454	0.904129	0.954177	0.657005	0.225868

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.878129	0.742549	-0.017598	-9.000000	0.513297	0.403541	0.472589	0.636976	0.648916	0.503447	0.502257	0.028494
2	0.943793	0.788433	-0.020332	-9.000000	0.554697	0.441143	0.511933	0.687757	0.707354	0.553512	0.470062	0.060277
3	0.943793	0.806681	-0.025834	-9.000000	0.578053	0.466119	0.537862	0.709030	0.721952	0.558958	0.417461	0.114626
4	-0.000382	-0.000462	-0.001034	-9.000000	-0.003633	-0.003668	-0.003806	-0.003029	-0.002767	-0.001554	0.000495	-0.002026
5	0.951670	0.816965	-0.022446	-9.000000	0.593538	0.482097	0.556607	0.725623	0.745493	0.585410	0.449364	0.055170
6	0.951556	0.821935	-0.020174	-9.000000	0.596295	0.484258	0.557638	0.727325	0.748255	0.588597	0.427262	0.017008
7	0.301462	0.114828	-0.005502	-9.000000	0.030056	-0.000126	0.039740	0.064658	0.075532	0.042069	0.909302	0.792152
8	-0.008970	-0.171356	-0.003498	-9.000000	-0.174707	-0.166210	-0.147919	-0.160317	-0.181957	-0.172262	0.759755	0.817454
9	-0.036226	-0.202876	-0.004410	-9.000000	-0.203376	-0.193534	-0.177654	-0.192343	-0.216405	-0.195086	0.757900	0.904129
10	0.198160	0.005462	-0.011552	-9.000000	-0.036568	-0.054268	-0.024837	-0.000479	-0.020001	-0.041323	0.852000	0.954177
11	0.641130	0.440204	-0.014749	-9.000000	0.332057	0.263811	0.314541	0.407476	0.398981	0.293831	0.843188	0.657005
12	0.950245	0.796273	-0.024155	-9.000000	0.614503	0.505464	0.577690	0.736806	0.750971	0.587122	0.540896	0.225868
13	1.000000	0.831217	-0.019257	-9.000000	0.644395	0.531152	0.606963	0.771533	0.785586	0.615966	0.472669	0.109890
14	0.831217	1.000000	-0.027561	-9.000000	0.641267	0.555805	0.512063	0.736823	0.750832	0.594834	0.270823	-0.064643
15	-0.019257	-0.027561	1.000000	-9.000000	-0.010802	-0.007649	-0.012482	-0.015534	-0.020711	-0.032591	-0.008372	-0.019750
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.644395	0.641267	-0.010802	-9.000000	1.000000	0.967358	0.976045	0.955738	0.911301	0.711462	0.150559	-0.084299
18	0.531152	0.555805	-0.007649	-9.000000	0.967358	1.000000	0.972417	0.912864	0.860731	0.569418	0.139728	-0.091541
19	0.606963	0.512063	-0.012482	-9.000000	0.976045	0.972417	1.000000	0.954149	0.907438	0.712645	0.185602	-0.070262
20	0.771533	0.736823	-0.015534	-9.000000	0.955738	0.912864	0.954149	1.000000	0.964039	0.770615	0.250804	-0.061537
21	0.785586	0.750832	-0.020711	-9.000000	0.911301	0.860731	0.907438	0.964039	1.000000	0.825887	0.248467	-0.089834
22	0.615966	0.594834	-0.032591	-9.000000	0.711462	0.569418	0.712645	0.770615	0.825887	1.000000	0.189648	-0.108898
23	0.472669	0.270823	-0.008372	-9.000000	0.150559	0.139728	0.185602	0.250804	0.248467	0.189648	1.000000	0.698545
24	0.109890	-0.064643	-0.019750	-9.000000	-0.084299	-0.091541	-0.070262	-0.061537	-0.089834	-0.108898	0.698545	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.648914
2	0.704098
3	0.721635
4	-0.002921
5	0.742448
6	0.744763
7	0.080732
8	-0.172911
9	-0.206474
10	-0.010529
11	0.406911
12	0.750757
13	0.785782
14	0.750734
15	-0.018339
17	0.541506
18	0.894342
19	0.938793
20	0.964016
21	0.951338
22	0.806066
23	0.[illegible]
24	-0.[illegible]

TABLE A1: FINNEY COUNTY, KANSAS, JUNE 9, 1975. FLIGHT LINE #1.
LINEAR CORRELATION COEFFICIENTS, UNCOMPENSATED DATA.
COMPARE WITH FIGURE 1 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.799658	0.520629	0.002556	0.478735	0.482813	-0.300206	-0.328503	-0.380359	-0.442246	-0.183693	0.141568
2	0.799658	1.000000	0.877127	0.001741	0.850647	0.842947	-0.592585	-0.672845	-0.706829	-0.706916	-0.469522	0.571041
3	0.520629	0.877127	1.000000	-0.000589	0.936671	0.922231	-0.701540	-0.785798	-0.744330	-0.574704	-0.252133	0.752133
4	0.002556	0.001741	-0.000589	1.000000	-0.000101	0.000170	-0.000515	-0.001321	-0.001302	-0.001665	-0.000709	-0.000222
5	0.478735	0.850647	0.936671	-0.000101	1.000000	0.985703	-0.690734	-0.797286	-0.828345	-0.798205	-0.645640	0.798583
6	0.482813	0.842947	0.922231	0.000170	0.985703	1.000000	-0.699804	-0.825244	-0.852100	-0.816042	-0.653286	0.805503
7	-0.300206	-0.592585	-0.701540	-0.000515	-0.690734	-0.699804	1.000000	0.923058	0.914366	0.901462	0.674163	-0.579471
8	-0.328503	-0.672845	-0.785749	-0.001321	-0.797286	-0.825244	0.923058	1.000000	0.972187	0.925552	0.711445	-0.712875
9	-0.380359	-0.706829	-0.785798	-0.001302	-0.828345	-0.852100	0.914366	0.972187	1.000000	0.973791	0.741674	-0.695030
10	-0.442246	-0.706916	-0.744330	-0.001665	-0.798205	-0.816042	0.901462	0.925552	0.973791	1.000000	0.763098	-0.583033
11	-0.183693	-0.469522	-0.574704	-0.000769	-0.645640	-0.653286	0.674163	0.711445	0.741674	0.763098	1.000000	-0.526754
12	0.141568	0.571041	0.752133	-0.000222	0.798583	0.805503	-0.579471	-0.712875	-0.695030	-0.583033	-0.526754	1.000000
13	0.237178	0.651782	0.805967	-0.000010	0.875148	0.885681	-0.696711	-0.796289	-0.803421	-0.730485	-0.568513	0.865336
14	0.125235	0.475760	0.605822	-0.000169	0.675058	0.691671	-0.652236	-0.760892	-0.770789	-0.730896	-0.632446	0.635210
15	-0.188591	-0.203609	-0.184137	-0.000942	-0.157219	-0.138801	-0.090008	-0.049756	-0.079410	-0.151708	-0.173307	
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.043766	-0.087500	-0.120113	-0.004301	-0.155487	-0.136545	-0.367670	-0.220241	-0.229952	-0.282202	-0.102889	-0.199254
18	-0.022865	-0.158207	-0.175946	-0.004345	-0.198306	-0.182125	-0.318962	-0.176898	-0.187163	-0.240170	-0.097975	-0.231015
19	-0.019558	-0.141161	-0.152012	-0.004485	-0.169098	-0.153625	-0.345898	-0.201531	-0.213156	-0.268656	-0.124293	-0.267780
20	0.084589	0.111670	0.139034	-0.004273	0.143938	0.162250	-0.598542	-0.491394	-0.505004	-0.537538	-0.350491	0.093148
21	0.100728	0.183172	0.207709	-0.003831	0.231956	0.251644	-0.639445	-0.556402	-0.572725	-0.597396	-0.405697	0.177543
22	0.037437	0.088069	0.090018	-0.001719	0.121445	0.138849	-0.434136	-0.382198	-0.386983	-0.411373	-0.294355	0.081164
23	-0.203342	-0.566323	-0.743809	0.000446	-0.726050	-0.726176	0.877271	0.868531	0.874199	0.873246	0.757766	-0.560194
24	-0.473210	-0.699457	-0.677335	-0.002126	-0.792637	-0.818643	0.796984	0.863622	0.930383	0.963943	0.736750	-0.573160

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.237178	0.125235	-0.188591	-9.000000	0.043766	-0.022865	-0.019558	0.084589	0.100728	0.037487	-0.203342	-0.473210
2	0.651782	0.475760	-0.203609	-9.000000	-0.087500	-0.158207	-0.141161	0.111670	0.183172	0.088069	-0.566323	-0.699457
3	0.805967	0.605822	-0.184137	-9.000000	-0.120113	-0.175946	-0.152012	0.139034	0.207709	0.090018	-0.743809	-0.677335
4	-0.000010	-0.000169	-0.000942	-9.000000	-0.004301	-0.004345	-0.004485	-0.004273	-0.003831	-0.001719	0.000446	-0.002126
5	0.875148	0.675058	-0.157219	-9.000000	-0.155487	-0.198306	-0.169098	0.143938	0.231956	0.121445	-0.726050	-0.792637
6	0.885681	0.691671	-0.138801	-9.000000	-0.136545	-0.182125	-0.153625	0.162250	0.251644	0.138849	-0.726176	-0.818643
7	-0.696711	-0.652236	-0.090008	-9.000000	-0.367670	-0.318962	-0.345898	-0.598542	-0.639445	-0.434136	0.877271	0.796984
8	-0.796289	-0.760892	-0.049756	-9.000000	-0.220241	-0.176898	-0.201531	-0.491394	-0.556402	-0.382198	0.868531	0.863622
9	-0.803421	-0.770789	-0.079410	-9.000000	-0.229952	-0.187163	-0.213156	-0.505004	-0.572725	-0.386983	0.874199	0.930383
10	-0.730485	-0.730896	-0.079410	-9.000000	-0.282202	-0.240170	-0.268656	-0.537538	-0.597396	-0.411373	0.873246	0.963943
11	-0.568513	-0.632446	-0.151708	-9.000000	-0.102889	-0.097975	-0.124293	-0.350491	-0.405697	-0.294355	0.757766	0.736750
12	0.865336	0.635210	-0.173307	-9.000000	-0.199254	-0.231015	-0.267780	0.093148	0.177543	0.081164	-0.560194	-0.573160
13	1.000000	0.719426	-0.142226	-9.000000	-0.133593	-0.174012	-0.139838	0.186822	0.260688	0.142168	-0.694330	-0.721174
14	0.719426	1.000000	-0.109276	-9.000000	-0.012166	-0.026063	-0.007003	0.245347	0.309227	0.184119	-0.712427	-0.719360
15	-0.142226	-0.109276	1.000000	-9.000000	-0.102572	-0.082481	-0.099171	-0.135195	-0.141199	-0.112239	0.116605	0.072674
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.133593	-0.012166	-0.102572	-9.000000	1.000000	0.963619	0.964429	0.896366	0.795077	0.567651	-0.202474	-0.208029
18	-0.174012	-0.026063	-0.082481	-9.000000	0.963619	1.000000	0.968094	0.878208	0.772212	0.491294	-0.178945	-0.172532
19	-0.139838	-0.007003	-0.099171	-9.000000	0.964429	0.968094	1.000000	0.911940	0.808925	0.522434	-0.204665	-0.198865
20	0.186822	0.245347	-0.135195	-9.000000	0.896366	0.878208	0.911940	1.000000	0.913969	0.606655	-0.464287	-0.464755
21	0.256838	0.309227	-0.141199	-9.000000	0.795077	0.772212	0.808925	0.913969	1.000000	0.709337	-0.504572	-0.537626
22	0.142158	0.184119	-0.112239	-9.000000	0.567651	0.491294	0.522434	0.606655	0.709337	1.000000	-0.331255	-0.383556
23	-0.694330	-0.712427	-0.116605	-9.000000	-0.202474	-0.178945	-0.204665	-0.464287	-0.504572	-0.331255	1.000000	0.760858
24	-0.721174	-0.719360	-0.072674	-9.000000	-0.208029	-0.172532	-0.198865	-0.464755	-0.537626	-0.383556	0.760858	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.094879
2	0.151416
3	0.178215
4	-0.004138
5	0.193008
6	0.212444
7	-0.633159
8	-0.536192
9	-0.551519
10	-0.580677
11	-0.387050
12	0.139202
13	0.232701
14	0.284091
15	-0.141328
17	0.863493
18	0.842479
19	0.878514
20	0.977382
21	0.979113
22	0.673649
23	-0.495598
24	-0.513059

TABLE A1 (CONTINUED): FINNEY COUNTY, KANSAS. JUNE 9, 1975. FLIGHT LINE #1. LINEAR CORRELATION COEFFICIENTS, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 1 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.746440	0.687312	-9.000000	0.673103	0.656326	0.448031	0.290683	0.275248	0.351223	0.562153	0.572161
2	0.746440	1.000000	0.803257	-9.000000	0.778260	0.752616	0.423352	0.250708	0.245049	0.349643	0.575847	0.679007
3	0.687312	0.803257	1.000000	-9.000000	0.937044	0.890194	0.369315	0.167153	0.223086	0.366767	0.621440	0.879076
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.673103	0.778260	0.937044	-9.000000	1.000000	0.970188	0.357195	0.145436	0.159583	0.295250	0.589823	0.856951
6	0.656326	0.752616	0.890194	-9.000000	0.970188	1.000000	0.297219	0.056941	0.049319	0.188769	0.511976	0.876469
7	0.448031	0.423352	0.369315	-9.000000	0.357195	0.297219	1.000000	0.937377	0.880997	0.887810	0.795658	0.246722
8	0.290683	0.250849	0.167153	-9.000000	0.145436	0.056941	0.937377	1.000000	0.949698	0.914096	0.717728	0.047604
9	0.275248	0.250708	0.223086	-9.000000	0.159583	0.049319	0.880997	0.949698	1.000000	0.967203	0.759684	0.115323
10	0.351223	0.349643	0.366767	-9.000000	0.295260	0.188769	0.887810	0.914096	0.967203	1.000000	0.856425	0.308239
11	0.562153	0.575847	0.621440	-9.000000	0.589823	0.511976	0.795658	0.717728	0.759684	0.856425	1.000000	0.623863
12	0.572161	0.679007	0.879076	-9.000000	0.856951	0.876469	0.246722	0.047604	0.115323	0.308239	0.623863	1.000000
13	0.538785	0.636435	0.812658	-9.000000	0.871673	0.884738	0.106745	-0.100664	-0.056390	0.118798	0.467255	0.930418
14	0.462886	0.565435	0.727131	-9.000000	0.795242	0.821632	-0.052983	-0.255349	-0.220888	-0.056489	0.299499	0.850431
15	-0.004961	-0.011569	-0.005502	-9.000000	-0.007173	-0.014990	0.002890	0.012341	0.000890	0.000995	-0.005567	-0.007483
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.125369	0.210352	0.340717	-9.000000	0.402386	0.434455	-0.333416	-0.461547	-0.442741	-0.327698	-0.028173	0.505434
18	0.154488	0.229768	0.342552	-9.000000	0.381495	0.406518	-0.298333	-0.419907	-0.403449	-0.296559	-0.009137	0.474909
19	0.175198	0.255973	0.383238	-9.000000	0.432753	0.462347	-0.304535	-0.438968	-0.420101	-0.301576	0.003952	0.529820
20	0.213669	0.303186	0.446701	-9.000000	0.516542	0.546943	-0.286677	-0.436582	-0.413077	-0.281879	0.038093	0.605915
21	0.247499	0.332729	0.471753	-9.000000	0.544056	0.568236	-0.227241	-0.381681	-0.354746	-0.224215	0.096668	0.624974
22	0.257035	0.324212	0.442995	-9.000000	0.485959	0.495061	-0.125282	-0.263809	-0.229222	-0.121306	0.149018	0.550761
23	0.405363	0.380006	0.346122	-9.000000	0.359512	0.333983	0.672255	0.611523	0.604408	0.632252	0.664951	0.335676
24	0.235442	0.258453	0.336474	-9.000000	0.214364	0.095380	0.710937	0.762341	0.856258	0.902181	0.733928	0.282741

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.538785	0.462886	-0.004961	-9.000000	0.125369	0.154488	0.175198	0.213669	0.247499	0.257035	0.405363	0.235442
2	0.636439	0.565435	-0.011569	-9.000000	0.210352	0.229768	0.255973	0.303186	0.332729	0.324212	0.380006	0.258453
3	0.812658	0.727131	-0.005502	-9.000000	0.340717	0.342552	0.383238	0.446701	0.471753	0.442995	0.346122	0.336474
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.871673	0.795242	-0.007173	-9.000000	0.402386	0.381495	0.432753	0.516542	0.544056	0.485959	0.359512	0.214364
6	0.884738	0.821632	-0.014990	-9.000000	0.434455	0.406518	0.462347	0.546943	0.568236	0.496061	0.333983	0.095380
7	0.106745	-0.052983	0.002890	-9.000000	-0.333416	-0.298333	-0.304535	-0.286677	-0.227241	-0.125282	0.672255	0.710937
8	-0.100664	-0.255349	0.012341	-9.000000	-0.461547	-0.419907	-0.438968	-0.436582	-0.381681	-0.263809	0.611523	0.762341
9	-0.056390	-0.220888	0.000890	-9.000000	-0.442741	-0.403449	-0.420101	-0.413077	-0.354746	-0.229222	0.604408	0.856258
10	0.118798	-0.056489	0.000995	-9.000000	-0.327698	-0.296559	-0.301676	-0.281879	-0.224215	-0.121306	0.632252	0.902181
11	0.467255	0.299499	-0.005567	-9.000000	-0.028173	-0.009137	0.003552	0.038093	0.096668	0.149018	0.664951	0.733928
12	0.930418	0.850431	-0.007483	-9.000000	0.505434	0.474909	0.529820	0.605915	0.624974	0.550761	0.335676	0.282741
13	1.000000	0.892168	-0.005564	-9.000000	0.530766	0.484280	0.550785	0.639136	0.653747	0.564321	0.242890	0.090144
14	0.892168	1.000000	-0.004033	-9.000000	0.753109	0.731590	0.780623	0.844843	0.838933	0.705640	0.115088	-0.065026
15	-0.005564	-0.004033	1.000000	-9.000000	0.004012	0.004752	0.000891	-0.000147	-0.001889	-0.013343	-0.004645	0.000546
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.530766	0.753109	0.004012	-9.000000	1.000000	0.980105	0.985671	0.971984	0.934219	0.777028	-0.135278	-0.288291
18	0.484280	0.731590	0.004752	-9.000000	0.980105	1.000000	0.989724	0.962364	0.928492	0.778243	-0.125020	-0.261950
19	0.550785	0.780623	0.000891	-9.000000	0.985671	0.989724	1.000000	0.981380	0.949476	0.797499	-0.116425	-0.265341
20	0.639136	0.844843	-0.000147	-9.000000	0.971984	0.962364	0.981380	1.000000	0.974110	0.819977	-0.096007	-0.253137
21	0.653747	0.838933	-0.001889	-9.000000	0.934219	0.928492	0.949476	0.974110	1.000000	0.861283	-0.054065	-0.208052
22	0.564321	0.705640	-0.013343	-9.000000	0.777028	0.778243	0.797499	0.819977	0.861283	1.000000	0.006390	-0.114402
23	0.242890	0.115088	-0.004645	-9.000000	-0.135278	-0.125020	-0.116425	-0.096007	-0.054065	0.006390	1.000000	0.482673
24	0.090144	-0.065026	0.000546	-9.000000	-0.288291	-0.261950	-0.265341	-0.253137	-0.208052	-0.114402	0.482673	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.232127
2	0.320067
3	0.462256
5	0.533795
6	0.561256
7	-0.258574
8	-0.411747
9	-0.386358
10	-0.254639
11	0.067084
12	0.615487
13	0.650682
14	0.847384
15	-0.001027
17	0.959290
18	0.951571
19	0.971704
20	0.993479
21	0.993534
22	0.846169
23	-0.075481
24	-0.232053

TABLE A2: WILLIAMS COUNTY, NORTH DAKOTA. JUNE 22, 1975. FLIGHT LINE #2. LINEAR CORRELATION COEFFICIENTS, UNCOMPENSATED DATA. COMPARE WITH FIGURE 2 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.489128	0.297574	-9.000000	0.185665	0.131370	0.333963	0.280388	0.245312	0.224153	0.351954	-0.058518
2	0.489128	1.000000	0.518987	-9.000000	0.424831	0.363509	0.157306	0.079474	0.058226	0.053547	0.105064	0.134515
3	0.297574	0.518987	1.000000	-9.000000	0.796972	0.664241	-0.062491	-0.157517	-0.115230	-0.074018	-0.069966	0.555239
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.185665	0.424831	0.796972	-9.000000	1.000000	0.921031	-0.150394	-0.256985	-0.283790	-0.253106	-0.252280	0.667793
6	0.131370	0.363509	0.664241	-9.000000	0.921031	1.000000	-0.256154	-0.402582	-0.448012	-0.414923	-0.387768	0.642666
7	0.333963	0.157306	-0.062491	-9.000000	-0.150394	-0.256154	1.000000	0.960360	0.909371	0.900381	0.798562	-0.262399
8	0.280388	0.079474	-0.157517	-9.000000	-0.256985	-0.402582	0.960360	1.000000	0.963519	0.944976	0.825043	-0.340406
9	0.245312	0.058226	-0.115230	-9.000000	-0.283790	-0.448012	0.909371	0.963519	1.000000	0.982132	0.846100	-0.278746
10	0.224153	0.053547	-0.074018	-9.000000	-0.253106	-0.414923	0.900381	0.944876	0.982132	1.000000	0.859348	-0.155809
11	0.351954	0.105064	-0.069966	-9.000000	-0.252280	-0.387768	0.798562	0.825043	0.846100	0.859348	1.000000	-0.149343
12	-0.058518	0.134515	0.555239	-9.000000	0.667793	0.642666	-0.262399	-0.340406	-0.278746	-0.155809	-0.149343	1.000000
13	-0.059187	0.148707	0.499111	-9.000000	0.705677	0.757303	-0.469244	-0.553036	-0.531232	-0.456243	-0.405968	0.807636
14	-0.237877	-0.014589	0.293300	-9.000000	0.518434	0.631597	-0.738736	-0.798160	-0.789906	-0.741382	-0.708495	0.597106
15	-0.207224	-0.228358	-0.295191	-9.000000	-0.266342	-0.233544	-0.139977	-0.097365	-0.111361	-0.139514	-0.231310	-0.305070
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.301220	-0.354045	-0.365019	-9.000000	-0.297857	-0.190372	-0.575414	-0.537558	-0.536778	-0.542596	-0.305159	-0.084662
18	-0.360148	-0.339737	-0.317748	-9.000000	-0.233754	-0.115491	-0.669041	-0.640751	-0.643250	-0.546710	-0.506382	-0.042361
19	-0.363590	-0.332242	-0.279391	-9.000000	-0.171423	-0.045010	-0.714748	-0.693182	-0.694323	-0.691222	-0.535999	0.027500
20	-0.374289	-0.307292	-0.199574	-9.000000	-0.032316	0.097882	-0.778532	-0.759192	-0.767147	-0.754995	-0.608220	0.148654
21	-0.374327	-0.271830	-0.142965	-9.000000	0.050029	0.173616	-0.767242	-0.771890	-0.767856	-0.754010	-0.657675	0.196441
22	-0.302300	-0.200582	-0.089988	-9.000000	0.041584	0.129504	-0.583477	-0.595166	-0.584322	-0.581570	-0.569257	0.120923
23	0.272211	0.077054	-0.136854	-9.000000	-0.185671	-0.243153	0.712424	0.706771	0.696123	0.688905	0.699727	-0.161380
24	0.147190	0.000862	-0.335844	-9.000000	-0.292607	-0.469569	0.758778	0.827055	0.894663	0.923623	0.785447	-0.125411

	13	14	15	16	17	18	19	20	21	22	23	24
1	-0.059187	-0.237877	-0.207224	-9.000000	-0.301220	-0.360148	-0.363590	-0.374289	-0.374327	-0.302300	0.272211	0.147190
2	0.148707	-0.014589	-0.228358	-9.000000	-0.354045	-0.339737	-0.332242	-0.307292	-0.271830	-0.200582	0.077054	0.000862
3	0.499111	0.293300	-0.295191	-9.000000	-0.365019	-0.317748	-0.279391	-0.199574	-0.142965	-0.089988	-0.136854	-0.335844
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.705677	0.518434	-0.266342	-9.000000	-0.297857	-0.233754	-0.171423	-0.032316	0.050029	0.041584	-0.185671	-0.292607
6	0.757303	0.631597	-0.233544	-9.000000	-0.190372	-0.115491	-0.045010	0.097882	0.173616	0.129504	-0.243153	-0.469569
7	-0.469244	-0.738736	-0.139977	-9.000000	-0.575414	-0.669041	-0.714748	-0.778532	-0.767242	-0.583477	0.712424	0.758778
8	-0.553036	-0.798160	-0.097365	-9.000000	-0.537558	-0.640751	-0.693182	-0.759192	-0.771890	-0.595166	0.706771	0.827055
9	-0.531232	-0.789906	-0.111361	-9.000000	-0.536778	-0.643250	-0.694323	-0.767147	-0.767856	-0.584322	0.696123	0.894663
10	-0.456243	-0.741382	-0.139514	-9.000000	-0.542596	-0.646710	-0.691222	-0.754995	-0.754010	-0.581570	0.688905	0.923623
11	-0.405968	-0.708495	-0.231310	-9.000000	-0.305159	-0.506382	-0.535999	-0.608220	-0.657675	-0.569257	0.699727	0.785447
12	0.807636	0.597106	-0.305070	-9.000000	-0.084662	-0.042361	0.027500	0.148654	0.196441	0.120923	-0.161380	-0.125411
13	1.000000	0.772161	-0.207336	-9.000000	-0.079611	0.026256	0.117742	0.272404	0.330250	0.240845	-0.332969	-0.431722
14	0.772161	1.000000	-0.193416	-9.000000	0.321612	0.450055	0.519598	0.647939	0.678940	0.491849	-0.566314	-0.689820
15	-0.207336	-0.193416	1.000000	-9.000000	-0.208825	-0.168921	-0.186097	-0.198483	-0.185047	-0.147829	-0.161949	-0.124150
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.079611	0.321612	-0.208825	-9.000000	1.000000	0.925513	0.931388	0.885152	0.760030	0.466374	-0.356058	-0.455937
18	0.026256	0.450055	-0.168921	-9.000000	0.925513	1.000000	0.983128	0.934216	0.856940	0.589211	-0.483639	-0.565118
19	0.117742	0.519598	-0.186097	-9.000000	0.931388	0.983128	1.000000	0.964512	0.888977	0.612558	-0.508173	-0.602810
20	0.272404	0.647939	-0.198483	-9.000000	0.885152	0.934216	0.964512	1.000000	0.940321	0.656544	-0.562709	-0.668436
21	0.330250	0.678940	-0.185047	-9.000000	0.760030	0.856940	0.888977	0.940321	1.000000	0.757181	-0.580311	-0.682167
22	0.240845	0.491849	-0.147829	-9.000000	0.466374	0.589211	0.612558	0.656544	0.757181	1.000000	-0.468924	-0.532054
23	-0.332969	-0.566314	-0.161949	-9.000000	-0.356058	-0.483639	-0.508173	-0.562709	-0.580311	-0.468924	1.000000	0.570677
24	-0.431722	-0.689820	-0.124150	-9.000000	-0.455937	-0.565118	-0.602810	-0.668436	-0.682167	-0.532054	0.570677	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	-0.380021
2	-0.293874
3	-0.173764
5	0.009240
6	0.138049
7	-0.784648
8	-0.752309
9	-0.779217
10	-0.766014
11	-0.642756
12	0.175325
13	0.306100
14	0.673658
15	-0.194651
17	0.834769
18	0.909013
19	0.940661
20	0.984787
21	0.985146
22	0.717954
23	-0.580285
24	-0.685649

TABLE A2 (CONTINUED): WILLIAMS COUNTY, NORTH DAKOTA. JUNE 22, 1975.

FLIGHT LINE #2. LINEAR CORRELATION COEFFICIENTS,

ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 2 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.636514	0.413328	-0.000507	0.432711	0.483350	0.139785	-0.166762	-0.176216	-0.170883	0.076011	0.382680
2	0.636514	1.000000	0.740519	-0.000331	0.708328	0.689277	0.050559	-0.291774	-0.302984	-0.235854	0.123635	0.674287
3	0.413328	0.740519	1.000000	-0.000713	0.909470	0.786035	-0.156792	-0.399569	-0.387454	-0.201290	0.195747	0.922186
4	-0.000507	-0.000831	-0.000713	1.000000	-0.000861	-0.000783	-0.000605	0.000368	0.000456	0.000399	-0.000970	-0.000846
5	0.432711	0.708328	0.909470	-0.000861	1.000000	0.867860	-0.022065	-0.338022	-0.388475	-0.216071	0.269707	0.851586
6	0.483350	0.689277	0.786035	-0.000783	0.867860	1.000000	0.022716	-0.452859	-0.360913	-0.212299	0.248541	0.788759
7	0.139785	0.050559	-0.156792	-0.000605	-0.022065	0.022716	1.000000	0.786862	0.757445	0.713698	0.725357	-0.120165
8	-0.166762	-0.291774	-0.399569	0.000368	-0.338022	-0.452859	0.786862	1.000000	0.908930	0.852952	0.630180	-0.376226
9	-0.176216	-0.302984	-0.387454	-0.000456	-0.388475	-0.360913	0.757445	0.908930	1.000000	0.953374	0.689529	-0.316411
10	-0.170883	-0.235854	-0.201290	0.000399	-0.216071	-0.212299	0.713698	0.852952	0.953374	1.000000	0.796315	-0.093952
11	0.076011	0.123635	0.195747	-0.000970	0.269707	0.248541	0.725357	0.630180	0.689529	0.796315	1.000000	0.302043
12	0.382680	0.674287	0.922186	-0.000846	0.851586	0.788759	-0.120165	-0.376226	-0.316411	-0.093952	0.302043	1.000000
13	0.506991	0.777387	0.854598	-0.000603	0.779729	0.710377	-0.236041	-0.515035	-0.529880	-0.399283	0.064617	0.847463
14	0.415129	0.653361	0.724571	-0.000443	0.656431	0.606794	-0.480271	-0.720319	-0.753683	-0.647200	-0.282524	0.722169
15	0.003736	0.001034	-0.004441	0.001101	-0.000703	-0.000589	0.004015	0.002492	0.000180	0.001318	-0.000603	-0.002121
16	-0.000507	-0.000831	-0.000713	1.000000	-0.000861	-0.000783	-0.000605	0.000368	-0.000456	0.000399	-0.000970	-0.000846
17	0.271778	0.455837	0.584260	-0.000236	0.571789	0.555796	-0.522285	-0.744392	-0.763095	-0.652785	-0.306856	0.605503
18	0.260353	0.442918	0.572541	-0.000217	0.564911	0.547815	-0.529344	-0.746247	-0.766756	-0.655622	-0.315240	0.597069
19	0.294462	0.495220	0.636407	-0.000234	0.621352	0.600313	-0.565210	-0.803198	-0.825931	-0.705130	-0.329494	0.660818
20	0.328265	0.536900	0.685878	-0.000237	0.625024	0.599469	-0.563247	-0.799942	-0.822391	-0.706349	-0.338035	0.675405
21	0.342815	0.550460	0.657950	-0.000378	0.618651	0.590742	-0.533796	-0.769385	-0.792840	-0.681083	-0.314824	0.670000
22	0.240091	0.406562	0.523468	-0.000275	0.460541	0.439931	-0.440891	-0.600304	-0.590947	-0.495368	-0.240731	0.532456
23	0.163951	0.085000	-0.019986	-0.000779	0.082144	0.179456	0.855898	0.651987	0.689046	0.678493	0.779996	0.019308
24	-0.326864	-0.328789	-0.124045	0.000484	-0.248441	-0.323525	0.392464	0.701153	0.810321	0.900359	0.619689	-0.043827

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.506991	0.415129	0.003736	-0.000507	0.271778	0.260353	0.294462	0.328265	0.342815	0.240091	0.163951	-0.326864
2	0.777387	0.653361	0.001034	-0.000831	0.455837	0.442918	0.495220	0.536900	0.550460	0.406562	0.085000	-0.328789
3	0.854598	0.724571	-0.004441	-0.000713	0.584260	0.572541	0.636407	0.685878	0.657950	0.523468	-0.019986	-0.124045
4	-0.000503	-0.000443	0.001101	1.000000	-0.000236	-0.000217	-0.000234	-0.000237	-0.000378	-0.000275	-0.000779	0.000484
5	0.779729	0.656481	-0.000703	-0.000861	0.571789	0.564911	0.621352	0.625024	0.618651	0.460541	0.082144	-0.248441
6	0.710377	0.606794	-0.000589	-0.000783	0.555796	0.547815	0.600313	0.599469	0.590742	0.439931	0.179456	-0.323525
7	-0.236041	-0.480271	0.004015	-0.000605	-0.522285	-0.529344	-0.565210	-0.563247	-0.533796	-0.440891	0.855898	0.392464
8	-0.515035	-0.720319	0.002492	0.000368	-0.744392	-0.746247	-0.803198	-0.799942	-0.769385	-0.600304	0.651987	0.701153
9	-0.529880	-0.753683	0.000180	-0.000456	-0.763095	-0.766766	-0.825931	-0.822391	-0.792840	-0.590947	0.689046	0.810321
10	-0.399283	-0.647200	0.001318	0.000399	-0.652785	-0.655622	-0.705130	-0.706349	-0.681083	-0.495368	0.678493	0.900359
11	-0.283617	-0.282524	-0.000603	-0.000970	-0.306856	-0.315240	-0.329494	-0.338035	-0.314824	-0.240731	0.779996	0.619689
12	0.847463	0.722169	-0.002121	-0.000846	0.605503	0.597069	0.660818	0.675405	0.670000	0.532456	0.019308	-0.043827
13	1.000000	0.875846	0.007509	-0.000603	0.699753	0.687552	0.759450	0.793473	0.769647	0.602482	-0.142134	-0.368793
14	0.875846	1.000000	-0.005201	-0.000443	0.849093	0.847375	0.925267	0.946839	0.934309	0.715734	-0.378280	-0.564881
15	0.007509	-0.005201	1.000000	0.001101	0.002844	0.001291	-0.001517	-0.002184	-0.002225	-0.001193	0.003692	-0.003081
16	-0.000503	-0.000443	0.001101	1.000000	-0.000236	-0.000217	-0.000234	-0.000237	-0.000378	-0.000275	-0.000779	0.000484
17	0.699753	0.849093	0.002844	-0.000236	1.000000	0.884663	0.916583	0.911917	0.892663	0.692795	-0.388042	-0.565825
18	0.687552	0.847375	0.001291	-0.000217	0.884663	1.000000	0.918625	0.912673	0.891717	0.696239	-0.394752	-0.567308
19	0.759450	0.925267	-0.001517	-0.000234	0.916583	0.918625	1.000000	0.992496	0.973855	0.782629	-0.418797	-0.610088
20	0.793473	0.946839	-0.002184	-0.000237	0.911917	0.912673	0.992496	1.000000	0.982006	0.780447	-0.425218	-0.610161
21	0.769647	0.934309	-0.002225	-0.000378	0.892663	0.891717	0.973855	0.982006	1.000000	0.832343	-0.398282	-0.592660
22	0.602482	0.715734	-0.001193	-0.000275	0.692795	0.696239	0.782629	0.780447	0.832343	1.000000	-0.327099	-0.400880
23	-0.142134	-0.378280	0.003692	-0.000779	-0.388042	-0.394752	-0.418797	-0.425218	-0.398282	-0.327099	1.000000	0.346840
24	-0.368793	-0.564881	-0.003081	0.000484	-0.565825	-0.567308	-0.610088	-0.610161	-0.592660	-0.400880	0.346840	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.336656
2	0.545753
3	0.661307
4	-0.000305
5	0.624820
6	0.598032
7	-0.551807
8	-0.789046
9	-0.812101
10	-0.697542
11	-0.328541
12	0.675917
13	0.795239
14	0.945155
15	-0.002213
16	-0.000305
17	0.905944
18	0.906844
19	0.988127
20	0.995972
21	0.994984
22	0.808611
23	-0.414349
24	-0.604607

TABLE A3: FINNEY COUNTY, KANSAS. JULY 6, 1975. FLIGHT LINE #1.
LINEAR CORRELATION COEFFICIENTS, UNCOMPENSATED DATA.
COMPARE WITH FIGURE 3 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.451782	0.037496	-0.000379	0.040389	0.138324	0.138008	-0.021835	-0.032307	-0.110652	-0.015093	-0.107615
2	0.451782	1.000000	0.458792	-0.000902	0.380637	0.384953	-0.055483	-0.243251	-0.262119	-0.311647	-0.160282	0.230989
3	0.037496	0.458792	1.000000	-0.000804	0.817747	0.623255	-0.464414	-0.523264	-0.521858	-0.430993	-0.288935	0.780236
4	-0.000379	-0.000902	-0.000804	1.000000	-0.000971	-0.000835	-0.000432	0.000419	0.000294	0.000492	-0.000567	-0.001015
5	0.040389	0.380637	0.817747	-0.000971	1.000000	0.797365	-0.345780	-0.523661	-0.591016	-0.510493	-0.321814	0.714960
6	0.138324	0.384953	0.623255	-0.000835	0.797365	1.000000	-0.272763	-0.626700	-0.544602	-0.441428	-0.321583	0.653002
7	0.138008	-0.055483	-0.464414	-0.000432	-0.345780	-0.272763	1.000000	0.846387	0.821239	0.765395	0.770287	-0.481721
8	-0.021835	-0.243251	-0.523264	0.000419	-0.523661	-0.626700	0.846387	1.000000	0.935534	0.901005	0.825809	-0.565519
9	-0.032307	-0.262119	-0.521858	0.000294	-0.591016	-0.544602	0.821239	0.935534	1.000000	0.972023	0.865391	-0.506175
10	-0.110652	-0.311647	-0.430993	0.000492	-0.510493	-0.441428	0.765395	0.901005	0.972023	1.000000	0.886225	-0.354900
11	-0.015093	-0.160282	-0.288935	-0.000567	-0.321814	-0.321583	0.770287	0.825809	0.865391	0.886225	1.000000	-0.275322
12	-0.107615	0.230989	0.780236	-0.001015	0.714960	0.653002	-0.481721	-0.565519	-0.506175	-0.354900	-0.275322	1.000000
13	0.108539	0.454367	0.686436	-0.000638	0.634959	0.563079	-0.601813	-0.721637	-0.746600	-0.707626	-0.600229	0.710338
14	0.051007	0.335831	0.539400	-0.000397	0.510833	0.467424	-0.772416	-0.855569	-0.891901	-0.869154	-0.771548	0.575595
15	-0.221679	-0.307654	-0.293359	0.001252	-0.179241	-0.141960	-0.151633	-0.157995	-0.118937	-0.150874	-0.295469	-0.273082
16	-0.000379	-0.000902	-0.000804	1.000000	-0.000971	-0.000835	-0.000432	0.000419	0.000294	0.000492	-0.000567	-0.001015
17	-0.026005	0.150472	0.377944	-0.000115	0.387193	0.378571	-0.716484	-0.776819	-0.796824	-0.770443	-0.635111	0.414100
18	-0.043436	0.137537	0.378880	-0.000109	0.407410	0.397449	-0.730583	-0.794484	-0.815860	-0.784383	-0.660226	0.434755
19	-0.019409	0.190341	0.455266	-0.000118	0.465302	0.448726	-0.787425	-0.861901	-0.885475	-0.844474	-0.696028	0.508374
20	0.004569	0.229806	0.473415	-0.000123	0.463265	0.443999	-0.802902	-0.874254	-0.897963	-0.884656	-0.736958	0.517885
21	0.007289	0.231977	0.459559	-0.000299	0.449487	0.430725	-0.787764	-0.859287	-0.884656	-0.858590	-0.732266	0.501445
22	-0.059061	0.091214	0.308932	-0.000188	0.268076	0.263314	-0.623622	-0.642591	-0.636895	-0.614933	-0.571458	0.338245
23	0.123540	-0.090814	-0.464520	-0.000491	-0.364806	-0.246050	0.875835	0.797151	0.823680	0.781707	0.845648	-0.426571
24	-0.238697	-0.378572	-0.279003	0.000555	-0.491542	-0.551393	0.513544	0.784163	0.862393	0.925685	0.770348	-0.242738

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.108539	0.051007	-0.221679	-0.000379	-0.026006	-0.043436	-0.019409	0.004569	0.007289	-0.059061	0.123540	-0.238697
2	0.454367	0.335831	-0.307654	-0.000902	0.150472	0.137537	0.190341	0.229806	0.231977	0.091214	-0.090814	-0.378572
3	0.686436	0.539400	-0.293359	-0.000804	0.377944	0.378880	0.455266	0.473415	0.459559	0.308932	-0.464520	-0.279003
4	-0.000638	-0.000397	0.001252	1.000000	-0.000115	-0.000109	-0.000118	-0.000123	-0.000299	-0.000188	-0.000491	0.000555
5	0.634959	0.510833	-0.179241	-0.000971	0.387193	0.407410	0.465302	0.463265	0.449487	0.268076	-0.364806	-0.491542
6	0.563079	0.467424	-0.141960	-0.000835	0.378571	0.397449	0.448726	0.443999	0.430725	0.263314	-0.246050	-0.551393
7	-0.601813	-0.772416	-0.151633	-0.000432	-0.716484	-0.730583	-0.787425	-0.802902	-0.787764	-0.623622	0.875835	0.513544
8	-0.721637	-0.855589	-0.157995	0.000419	-0.776819	-0.794484	-0.861901	-0.874254	-0.859287	-0.642591	0.797151	0.784163
9	-0.746600	-0.891901	-0.118937	-0.000294	-0.796824	-0.815860	-0.885475	-0.897963	-0.884656	-0.636895	0.823680	0.862393
10	-0.707626	-0.869154	-0.150874	0.000492	-0.770443	-0.784383	-0.844474	-0.884656	-0.858590	-0.614933	0.781707	0.925685
11	-0.600229	-0.771548	-0.295469	-0.000567	-0.635111	-0.660226	-0.696028	-0.736958	-0.732266	-0.571458	0.845648	0.770348
12	0.710338	0.575595	-0.273082	-0.001015	0.414100	0.434755	0.508374	0.517885	0.501445	0.338245	-0.426571	-0.242738
13	1.000000	0.827314	-0.190844	-0.000638	0.577745	0.589142	0.675190	0.714514	0.703449	0.461696	-0.600020	-0.628527
14	0.827314	1.000000	-0.138606	-0.000397	0.786158	0.803126	0.858379	0.924033	0.907322	0.625163	-0.749801	-0.758660
15	-0.190844	-0.138606	1.000000	0.001252	-0.164525	-0.142391	-0.162469	-0.163476	-0.162119	-0.134378	-0.221130	-0.134323
16	-0.000638	-0.000397	0.001252	1.000000	-0.000115	-0.000109	-0.000118	-0.000123	-0.000299	-0.000188	-0.000491	0.000555
17	0.577745	0.786138	-0.164525	-0.000115	1.000000	0.843475	0.884344	0.877151	0.859796	0.591130	-0.629490	-0.662501
18	0.589142	0.803126	-0.142391	-0.000109	0.843475	1.000000	0.892683	0.886175	0.858031	0.606747	-0.651079	-0.677660
19	0.675190	0.898379	-0.162469	-0.000118	0.884344	0.892683	1.000000	0.990505	0.964350	0.669576	-0.693641	-0.732707
20	0.714514	0.924033	-0.163476	-0.000123	0.877151	0.886175	0.990505	1.000000	0.974299	0.708059	-0.719946	-0.747815
21	0.703449	0.907322	-0.162119	-0.000299	0.859796	0.858031	0.964350	0.974299	1.000000	0.778743	-0.713654	-0.744414
22	0.461898	0.625163	-0.134378	-0.000188	0.591130	0.606747	0.669576	0.708059	0.778743	1.000000	-0.567185	-0.503146
23	-0.600020	-0.749801	-0.221130	-0.000491	-0.629490	-0.651079	-0.693641	-0.719946	-0.713654	-0.567185	1.000000	0.541879
24	-0.628527	-0.758660	-0.134323	0.000555	-0.662501	-0.677660	-0.732707	-0.747815	-0.744414	-0.503146	0.541879	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.005857
2	0.232322
3	0.469904
4	-0.000208
5	0.459725
6	0.440574
7	-0.800914
8	-0.872808
9	-0.897457
10	-0.868979
11	-0.735454
12	0.513436
13	0.713986
14	0.922082
15	-0.163889
16	-0.000208
17	0.857951
18	0.878556
19	0.984504
20	0.994276
21	0.992790
22	0.746164
23	-0.721617
24	-0.751038

TABLE A3 (CONTINUED): FINNEY COUNTY, KANSAS. JULY 6, 1975. FLIGHT LINE #1. LINEAR CORRELATION COEFFICIENTS, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 3 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.594268	0.481660	-9.000000	0.458310	0.442080	0.288298	0.188713	0.135419	0.175893	0.389655	0.406350
2	0.594268	1.000000	0.892301	-9.000000	0.817898	0.766445	0.421045	0.244022	0.197921	0.294670	0.653655	0.792600
3	0.481660	0.892301	1.000000	-9.000000	0.886648	0.799064	0.382581	0.198204	0.239391	0.371122	0.680517	0.884345
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.458310	0.817898	0.886648	-9.000000	1.000000	0.954150	0.554143	0.365443	0.339900	0.430787	0.707551	0.791528
6	0.442080	0.766445	0.799064	-9.000000	0.954150	1.000000	0.528410	0.298609	0.247484	0.336288	0.637035	0.746302
7	0.288298	0.421045	0.382581	-9.000000	0.554143	0.528410	1.000000	0.921855	0.823039	0.834665	0.778113	0.157481
8	0.188713	0.244022	0.198204	-9.000000	0.365443	0.298609	0.921855	1.000000	0.911656	0.879478	0.705939	-0.038731
9	0.135419	0.197921	0.239391	-9.000000	0.339900	0.247484	0.823039	0.911656	1.000000	0.964080	0.732368	-0.016127
10	0.175893	0.294670	0.371122	-9.000000	0.430787	0.336288	0.834665	0.879478	0.964080	1.000000	0.825782	0.151360
11	0.389655	0.653655	0.680517	-9.000000	0.707551	0.637035	0.778113	0.705939	0.732368	0.825782	1.000000	0.543335
12	0.406350	0.792600	0.884345	-9.000000	0.791528	0.746302	0.157481	-0.038731	-0.016127	0.151360	0.543335	1.000000
13	0.378768	0.729341	0.768372	-9.000000	0.730489	0.691909	0.022794	-0.170323	-0.187892	-0.052122	0.359480	0.512605
14	0.322793	0.632717	0.640053	-9.000000	0.522571	0.526207	-0.176812	-0.361868	-0.395287	-0.270162	0.197268	0.033303
15	-0.000620	-0.004747	0.005986	-9.000000	-0.001690	-0.007464	0.000267	0.000588	0.000302	0.000889	-0.000754	0.000983
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.154683	0.307643	0.318535	-9.000000	0.165193	0.179576	-0.375313	-0.511687	-0.545898	-0.450885	-0.089796	0.514162
18	0.131681	0.258787	0.261115	-9.000000	0.104788	0.116293	-0.376865	-0.497628	-0.528862	-0.444625	-0.115109	0.433025
19	0.162410	0.323668	0.332728	-9.000000	0.178320	0.191424	-0.378103	-0.518202	-0.552593	-0.456079	-0.088643	0.530246
20	0.206627	0.413878	0.426376	-9.000000	0.278762	0.290268	-0.353125	-0.512762	-0.545983	-0.439765	-0.043519	0.637977
21	0.240228	0.464760	0.475349	-9.000000	0.327239	0.333915	-0.288805	-0.454931	-0.484841	-0.379160	0.021169	0.661671
22	0.204731	0.384725	0.401153	-9.000000	0.264621	0.263418	-0.192963	-0.330543	-0.322696	-0.240942	0.064117	0.516929
23	0.323916	0.488095	0.390402	-9.000000	0.546169	0.554514	0.814642	0.756793	0.701225	0.724251	0.804377	0.289700
24	0.075448	0.185419	0.356085	-9.000000	0.318319	0.189779	0.646007	0.716181	0.877709	0.934691	0.764337	0.142025

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.378768	0.322793	-0.000620	-9.000000	0.154683	0.131681	0.162410	0.206627	0.240228	0.204731	0.323916	0.075448
2	0.729341	0.632717	-0.004747	-9.000000	0.307643	0.258787	0.323668	0.413878	0.464760	0.384725	0.488095	0.185419
3	0.768372	0.640053	0.005986	-9.000000	0.318535	0.261115	0.332728	0.426376	0.475349	0.401153	0.390402	0.356085
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.730489	0.522571	-0.001690	-9.000000	0.165193	0.104788	0.178320	0.278762	0.327239	0.264621	0.546169	0.318319
6	0.691909	0.526207	-0.007464	-9.000000	0.179576	0.116293	0.191424	0.290268	0.333915	0.263418	0.554514	0.189779
7	0.022794	-0.176812	0.000267	-9.000000	-0.375313	-0.376865	-0.378103	-0.353125	-0.288805	-0.192963	0.814642	0.646007
8	-0.170323	-0.361868	0.000588	-9.000000	-0.511687	-0.497628	-0.518202	-0.512762	-0.454931	-0.330543	0.756793	0.716181
9	-0.187892	-0.395287	0.000302	-9.000000	-0.545898	-0.528862	-0.552593	-0.545983	-0.484841	-0.322696	0.701225	0.877709
10	-0.052122	-0.270162	0.000889	-9.000000	-0.450885	-0.444625	-0.456079	-0.439765	-0.379160	-0.240942	0.724251	0.934691
11	0.359480	0.197268	-0.000754	-9.000000	-0.089790	-0.115109	-0.088643	-0.043519	0.021169	0.064117	0.804377	0.764337
12	0.512605	0.033303	0.000983	-9.000000	0.514162	0.433025	0.530246	0.637977	0.661671	0.516929	0.289700	0.142025
13	1.000000	0.887440	0.003441	-9.000000	0.502036	0.404285	0.520176	0.650131	0.669206	0.513165	0.170748	-0.072217
14	0.887440	1.000000	-0.003819	-9.000000	0.719593	0.643962	0.739019	0.835044	0.830013	0.622261	-0.005346	-0.268621
15	0.003441	-0.003819	1.000000	-9.000000	-0.004589	-0.004188	-0.005303	-0.007435	-0.007100	-0.027443	-0.015448	0.014069
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.502036	0.719593	-0.004589	-9.000000	1.000000	0.982764	0.991623	0.964565	0.921227	0.705401	-0.188063	-0.419543
18	0.404285	0.643962	-0.004188	-9.000000	0.982764	1.000000	0.981564	0.933101	0.888602	0.684113	-0.211648	-0.411232
19	0.520176	0.739019	-0.005303	-9.000000	0.991623	0.981564	1.000000	0.975327	0.936212	0.723530	-0.195502	-0.423912
20	0.650131	0.835044	-0.007435	-9.000000	0.964565	0.933101	0.975327	1.000000	0.970265	0.760007	-0.170490	-0.411038
21	0.669206	0.830013	-0.007100	-9.000000	0.921227	0.888602	0.936212	0.970265	1.000000	0.829536	-0.107550	-0.361094
22	0.513165	0.622261	-0.027443	-9.000000	0.705401	0.684113	0.723530	0.760007	0.829536	1.000000	-0.036113	-0.223388
23	0.170748	-0.005346	-0.015448	-9.000000	-0.188063	-0.211648	-0.195502	-0.170490	-0.107550	-0.036113	1.000000	0.495886
24	-0.072217	-0.268621	0.014069	-9.000000	-0.419543	-0.411232	-0.423912	-0.411038	-0.361094	-0.223388	0.495886	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.225042
2	0.442524
3	0.454157
5	0.305185
6	0.314354
7	-0.323502
8	-0.487595
9	-0.515405
10	-0.412657
11	-0.011374
12	0.654663
13	0.664591
14	0.839100
15	-0.007323
17	0.950058
18	0.917785
19	0.963030
20	0.992595
21	0.992481
22	0.800643
23	-0.140186
24	-0.389064

TABLE A4: WILLIAMS COUNTY, NORTH DAKOTA. AUGUST 15, 1975. FLIGHT LINE #2. LINEAR CORRELATION COEFFICIENTS, UNCOMPENSATED DATA. COMPARE WITH FIGURE 4 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.400008	0.150175	-9.000000	0.127690	0.113645	0.192048	0.171044	0.131293	0.112296	0.171278	-0.069563
2	0.400008	1.000000	0.653265	-9.000000	0.489196	0.396428	0.277157	0.205759	0.156867	0.145331	0.256766	0.240236
3	0.150175	0.653265	1.000000	-9.000000	0.703823	0.519774	0.077413	-0.012465	0.051634	0.086780	0.086672	0.567659
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.127690	0.489196	0.703823	-9.000000	1.000000	0.903462	0.297123	0.163495	0.133584	0.130622	0.112555	0.453672
6	0.113645	0.396428	0.519774	-9.000000	0.903462	1.000000	0.231362	0.047422	-0.008948	-0.010835	0.002835	0.408900
7	0.192048	0.277157	0.077413	-9.000000	0.297123	0.231362	1.000000	0.947273	0.874604	0.867228	0.822551	-0.376021
8	0.171044	0.205759	-0.012465	-9.000000	0.163495	0.047422	0.947273	1.000000	0.943140	0.924500	0.886062	-0.454167
9	0.131293	0.156867	0.051634	-9.000000	0.133584	-0.008948	0.874604	0.943140	1.000000	0.982412	0.899696	-0.404950
10	0.112296	0.145331	0.086780	-9.000000	0.130622	-0.010835	0.867228	0.924500	0.982412	1.000000	0.918489	-0.324955
11	0.171278	0.256766	0.086672	-9.000000	0.112555	0.002835	0.822551	0.886062	0.899696	0.918489	1.000000	-0.285941
12	-0.069563	0.240236	0.567659	-9.000000	0.453672	0.408900	-0.376021	-0.454167	-0.404950	-0.324955	-0.285941	1.000000
13	-0.053454	0.188908	0.382974	-9.000000	0.341387	0.383002	-0.519726	-0.595353	-0.605414	-0.576056	-0.524036	0.770875
14	-0.126278	-0.003000	0.123800	-9.000000	0.026297	0.113362	-0.751366	-0.801342	-0.824698	-0.806805	-0.750094	0.617822
15	-0.140368	-0.334813	-0.308928	-9.000000	-0.248050	-0.214083	-0.140836	-0.110282	-0.106029	-0.128738	-0.230398	-0.326257
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.167016	-0.372368	-0.383008	-9.000000	-0.517390	-0.410183	-0.646214	-0.618068	-0.622552	-0.615557	-0.495274	0.010854
18	-0.178564	-0.370912	-0.393961	-9.000000	-0.528439	-0.429837	-0.606704	-0.577345	-0.580198	-0.576205	-0.471150	-0.056297
19	-0.190446	-0.363289	-0.365306	-9.000000	-0.500288	-0.392981	-0.678384	-0.655042	-0.660454	-0.653771	-0.536672	0.044156
20	-0.200398	-0.319568	-0.283564	-9.000000	-0.411090	-0.297859	-0.774585	-0.767194	-0.774346	-0.767510	-0.659313	0.202664
21	-0.187281	-0.269913	-0.204978	-9.000000	-0.340387	-0.232544	-0.776940	-0.787201	-0.796162	-0.793129	-0.708118	0.242562
22	-0.140301	-0.211564	-0.130794	-9.000000	-0.255359	-0.163247	-0.555506	-0.571951	-0.554312	-0.556270	-0.536242	0.113870
23	0.177589	0.197281	-0.090257	-9.000000	0.111695	0.093787	0.850602	0.864504	0.840220	0.830973	0.869806	-0.388886
24	0.052120	0.057624	0.134999	-9.000000	0.053426	-0.122980	0.739902	0.820799	0.927040	0.960562	0.859205	-0.266412

	13	14	15	16	17	18	19	20	21	22	23	24
1	-0.053454	-0.126278	-0.140368	-9.000000	-0.167016	-0.178564	-0.190446	-0.200398	-0.187281	-0.140301	0.177589	0.052120
2	0.188908	-0.003000	-0.334813	-9.000000	-0.372368	-0.370912	-0.363289	-0.319568	-0.269913	-0.211564	0.197281	0.057624
3	0.382974	0.123800	-0.308928	-9.000000	-0.383008	-0.393961	-0.365306	-0.283564	-0.204978	-0.130794	-0.090257	0.134999
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.341387	0.026297	-0.248050	-9.000000	-0.517390	-0.528439	-0.500288	-0.411090	-0.340387	-0.255359	0.111695	0.053426
6	0.383002	0.113362	-0.214083	-9.000000	-0.410183	-0.429837	-0.392981	-0.297859	-0.232544	-0.163247	0.093787	-0.122980
7	-0.519726	-0.751366	-0.140836	-9.000000	-0.646214	-0.606704	-0.678384	-0.774585	-0.776940	-0.555506	0.850602	0.739902
8	-0.595353	-0.801342	-0.110282	-9.000000	-0.618068	-0.577345	-0.655042	-0.767194	-0.787201	-0.571951	0.864504	0.820799
9	-0.605414	-0.824698	-0.106029	-9.000000	-0.622552	-0.580198	-0.660454	-0.774346	-0.796162	-0.554312	0.840220	0.927040
10	-0.576056	-0.806805	-0.128738	-9.000000	-0.615557	-0.576205	-0.653771	-0.767510	-0.793129	-0.556270	0.830973	0.960562
11	-0.524036	-0.750094	-0.230398	-9.000000	-0.495274	-0.471150	-0.536672	-0.659313	-0.708118	-0.536242	0.869806	0.859205
12	0.770875	0.617822	-0.326257	-9.000000	0.010854	-0.056297	0.044156	0.202664	0.242562	0.113870	-0.388886	-0.266412
13	1.000000	0.765393	-0.182928	-9.000000	0.054234	-0.034225	0.092571	0.296113	0.350433	0.214242	-0.514853	-0.546489
14	0.765393	1.000000	-0.156652	-9.000000	0.426572	0.361659	0.471162	0.639830	0.662507	0.411293	-0.715468	-0.759455
15	-0.182928	-0.156652	1.000000	-9.000000	-0.195078	-0.171379	-0.193517	-0.210106	-0.208859	-0.156447	-0.190709	-0.112808
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.054234	0.426572	-0.195078	-9.000000	1.000000	0.977867	0.985868	0.936853	0.838160	0.495022	-0.478719	-0.543848
18	-0.034225	0.361659	-0.171379	-9.000000	0.977867	1.000000	0.977362	0.907366	0.815080	0.495434	-0.463056	-0.508299
19	0.092571	0.471162	-0.193517	-9.000000	0.985868	0.977362	1.000000	0.958345	0.871857	0.535343	-0.521833	-0.579916
20	0.296113	0.639830	-0.210106	-9.000000	0.936853	0.907366	0.958345	1.000000	0.935986	0.600674	-0.637237	-0.688082
21	0.350433	0.662507	-0.208859	-9.000000	0.838160	0.815080	0.871857	0.935986	1.000000	0.734710	-0.666264	-0.724522
22	0.214242	0.411293	-0.156447	-9.000000	0.495022	0.495434	0.535343	0.600674	0.734710	1.000000	-0.488003	-0.508262
23	-0.514853	-0.715468	-0.190709	-9.000000	-0.478719	-0.463056	-0.521833	-0.637237	-0.666264	-0.488003	1.000000	0.694870
24	-0.546489	-0.759455	-0.112808	-9.000000	-0.543848	-0.508299	-0.579916	-0.688082	-0.724522	-0.508262	0.694870	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	-0.197062
2	-0.299743
3	-0.248544
5	-0.382140
6	-0.269773
7	-0.788475
8	-0.789873
9	-0.798056
10	-0.793028
11	-0.694761
12	0.226137
13	0.328389
14	0.661769
15	-0.208879
17	0.902395
18	0.875658
19	0.930400
20	0.984083
21	0.983648
22	0.678184
23	-0.662339
24	-0.718271

TABLE A4 (CONTINUED): WILLIAMS COUNTY, NORTH DAKOTA. AUGUST 15, 1975. FLIGHT LINE #2. LINEAR CORRELATION COEFFICIENTS, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 4 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
2	0.413223	1.000000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	0.117202	0.591719	1.000000	-9.000000	0.697621	0.504869	0.077112	-0.019530	[illegible]	[illegible]	[illegible]	[illegible]
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.084209	0.419338	0.697621	-9.000000	1.000000	0.903173	0.295504	0.139623	0.114106	0.133571	0.150024	0.441565
6	0.065835	0.321458	0.504869	-9.000000	0.903173	1.000000	0.233626	0.028228	-0.019237	0.003244	0.051782	0.400958
7	0.145593	0.258251	0.077112	-9.000000	0.295504	0.233626	1.000000	0.945414	0.878739	0.873557	0.832860	-0.377509
8	0.181374	0.195959	-0.019530	-9.000000	0.139623	0.028228	0.945414	1.000000	0.947727	0.927996	0.866982	-0.462064
9	0.140694	0.148102	0.037960	-9.000000	0.114106	-0.019237	0.878739	0.947727	1.000000	0.983126	0.899581	-0.419235
10	0.116153	0.130746	-0.078876	-9.000000	0.133571	0.003244	0.873557	0.927996	0.983126	1.000000	0.915158	-0.333759
11	0.178997	0.247514	0.104634	-9.000000	0.150024	0.051782	0.832860	0.866982	0.899581	0.915158	1.000000	-0.289739
12	-0.118413	0.161640	0.572470	-9.000000	0.441565	0.400958	-0.377509	-0.462064	-0.419235	-0.333759	-0.289739	1.000000
13	-0.069947	0.136724	0.351611	-9.000000	0.264543	0.299044	-0.567677	-0.637953	-0.653997	-0.619761	-0.542849	0.779985
14	-0.149018	-0.035531	0.099029	-9.000000	-0.025319	0.056702	-0.771572	-0.813980	-0.841017	-0.825313	-0.768351	0.610216
15	-0.139661	-0.321772	-0.313716	-9.000000	-0.253167	-0.228815	-0.139562	-0.102108	-0.094954	-0.117236	-0.218732	-0.324678
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.171844	-0.330186	-0.353616	-9.000000	-0.471303	-0.354843	-0.658835	-0.663822	-0.665790	-0.663488	-0.554822	0.063143
18	-0.166297	-0.331375	-0.361652	-9.000000	-0.473572	-0.364991	-0.653579	-0.628744	-0.628027	-0.628603	-0.550595	-0.001107
19	-0.176871	-0.324822	-0.336765	-9.000000	-0.454188	-0.339365	-0.713139	-0.692477	-0.695004	-0.692405	-0.598558	0.093195
20	-0.186716	-0.283609	-0.261270	-9.000000	-0.385842	-0.269824	-0.793047	-0.783968	-0.788992	-0.784438	-0.692549	0.237780
21	-0.177255	-0.232946	-0.187164	-9.000000	-0.328411	-0.222654	-0.793214	-0.799562	-0.808045	-0.805994	-0.731259	0.282337
22	-0.133171	-0.175220	-0.114755	-9.000000	-0.249871	-0.177575	-0.576584	-0.593203	-0.577986	-0.583240	-0.550360	0.157205
23	0.180577	0.182278	-0.092292	-9.000000	0.121236	0.107702	0.358782	0.870227	0.848900	0.839933	0.877884	-0.358337
24	0.062034	0.062610	0.124956	-9.000000	0.055836	-0.107909	0.750311	0.830211	0.930736	0.962062	0.858623	-0.283822

	13	14	15	16	17	18	19	20	21	22	23	24
1	-0.069947	-0.149018	-0.139661	-9.000000	-0.171844	-0.166297	-0.176871	-0.186716	-0.177255	-0.133171	0.180577	0.062034
2	0.136724	-0.035531	-0.321772	-9.000000	-0.330186	-0.331375	-0.324822	-0.283609	-0.232946	-0.175220	0.182278	0.062610
3	0.351611	0.099029	-0.313716	-9.000000	-0.353616	-0.361652	-0.336765	-0.261270	-0.187164	-0.114755	-0.092292	0.124956
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.264543	-0.025319	-0.253167	-9.000000	-0.471303	-0.473572	-0.454188	-0.385842	-0.328411	-0.249871	0.121236	0.055836
6	0.299044	0.056702	-0.228815	-9.000000	-0.354843	-0.364991	-0.339365	-0.269824	-0.222654	-0.177575	0.107702	-0.107909
7	-0.567677	-0.771572	-0.139562	-9.000000	-0.658835	-0.653579	-0.713139	-0.793047	-0.793214	-0.576584	0.858782	0.750311
8	-0.637953	-0.813980	-0.102108	-9.000000	-0.663822	-0.628744	-0.692477	-0.783968	-0.799562	-0.593203	0.870227	0.830211
9	-0.653997	-0.841017	-0.094954	-9.000000	-0.665790	-0.628027	-0.695004	-0.788982	-0.808045	-0.577986	0.848900	0.930736
10	-0.619761	-0.825313	-0.117236	-9.000000	-0.663488	-0.628603	-0.692405	-0.784438	-0.805994	-0.583240	0.839933	0.962062
11	-0.542849	-0.768351	-0.218732	-9.000000	-0.554822	-0.550595	-0.598558	-0.692549	-0.731259	-0.550360	0.877884	0.858623
12	0.779985	0.610216	-0.324678	-9.000000	0.063143	-0.001107	0.093195	0.237780	0.282337	0.157205	-0.358337	-0.283822
13	1.000000	0.799500	-0.188372	-9.000000	0.177514	0.095106	0.209789	0.385196	0.434856	0.286295	-0.541296	-0.590613
14	0.799500	1.000000	-0.150435	-9.000000	0.514536	0.458090	0.550121	0.689345	0.714096	0.465357	-0.727116	-0.779190
15	-0.188372	-0.150435	1.000000	-9.000000	-0.191010	-0.171744	-0.189661	-0.205437	-0.201133	-0.159918	-0.179548	-0.097742
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.177514	0.514536	-0.191010	-9.000000	1.000000	0.983183	0.991059	0.951843	0.871374	0.538035	-0.534156	-0.592343
18	0.095106	0.458090	-0.171744	-9.000000	0.983183	1.000000	0.982580	0.925607	0.851592	0.534609	-0.525863	-0.560704
19	0.209789	0.550121	-0.189661	-9.000000	0.991059	0.982580	1.000000	0.965969	0.896955	0.569190	-0.568455	-0.619794
20	0.385196	0.689345	-0.205437	-9.000000	0.951843	0.925607	0.965969	1.000000	0.947135	0.623313	-0.659551	-0.708792
21	0.434856	0.714096	-0.201133	-9.000000	0.871374	0.851592	0.896955	0.947135	1.000000	0.737918	-0.684566	-0.739675
22	0.286295	0.465357	-0.159918	-9.000000	0.538035	0.534609	0.569190	0.623313	0.737918	1.000000	-0.510204	-0.534270
23	-0.541296	-0.727116	-0.179548	-9.000000	-0.534156	-0.525863	-0.568455	-0.659551	-0.684566	-0.510204	1.000000	0.710026
24	-0.590613	-0.779190	-0.097742	-9.000000	-0.592343	-0.560704	-0.619794	-0.708792	-0.739675	-0.534270	0.710026	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	-0.184505
2	-0.262117
3	-0.227762
5	-0.362346
6	-0.243891
7	-0.803322
8	-0.802330
9	-0.809145
10	-0.805785
11	-0.721229
12	0.263250
13	0.415204
14	0.711006
15	-0.206056
17	0.924465
18	0.901101
19	0.944506
20	0.987065
21	0.986320
22	0.686984
23	-0.680943
24	-0.733779

TABLE A5 (PART ONE): WILLIAMS COUNTY, NORTH DAKOTA. AUGUST 15, 1975. FLIGHT LINE #2, PART ONE. LINEAR CORRELATION COEFFICIENT, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 5 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.401500	0.180344	-9.000000	0.098169	0.081686	0.166568	0.143222	0.105893	0.092496	0.161655	-0.062365
2	0.401500	1.000000	0.704702	-9.000000	0.450261	0.348639	0.267058	0.193864	0.148786	0.138612	0.259831	0.236723
3	0.180344	0.704702	1.000000	-9.000000	0.684787	0.497503	0.096785	0.012170	0.075415	0.095994	0.096847	0.552337
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.098169	0.450261	0.684787	-9.000000	1.000000	0.908568	0.295811	0.167952	0.141711	0.120588	0.066616	0.460897
6	0.081686	0.348639	0.497503	-9.000000	0.908568	1.000000	0.221559	0.048145	-0.006642	-0.027865	-0.052679	0.414859
7	0.166568	0.267058	0.096785	-9.000000	0.295811	0.221559	1.000000	0.950901	0.876717	0.867156	0.810245	-0.338320
8	0.143222	0.193864	0.012170	-9.000000	0.167952	0.048145	0.950901	1.000000	0.943786	0.927446	0.860133	-0.413728
9	0.105893	0.148786	0.075415	-9.000000	0.141711	-0.006642	0.876717	0.943786	1.000000	0.983444	0.893443	-0.357457
10	0.092496	0.138612	0.095994	-9.000000	0.120588	-0.027865	0.867156	0.927446	0.983444	1.000000	0.913423	-0.284782
11	0.161655	0.259831	0.096847	-9.000000	0.066616	-0.052679	0.810245	0.860133	0.893443	0.913423	1.000000	-0.263550
12	-0.062365	0.236723	0.552337	-9.000000	0.460897	0.414859	-0.338320	-0.413728	-0.357457	-0.284782	-0.263550	1.000000
13	-0.070573	0.149736	0.350559	-9.000000	0.402152	0.451258	-0.459627	-0.541258	-0.543696	-0.522002	-0.499222	0.755215
14	-0.117200	-0.003170	0.117752	-9.000000	0.074794	0.169996	-0.731354	-0.789104	-0.802703	-0.789294	-0.749341	0.602926
15	-0.143117	-0.334564	-0.315982	-9.000000	-0.233635	-0.191259	-0.138602	-0.112725	-0.122362	-0.144906	-0.243295	-0.348335
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.137551	-0.307392	-0.342311	-9.000000	-0.511814	-0.406097	-0.671457	-0.647932	-0.650170	-0.635115	-0.487606	0.024513
18	-0.124134	-0.293953	-0.343258	-9.000000	-0.526288	-0.427937	-0.640926	-0.615621	-0.617453	-0.604377	-0.466812	-0.030864
19	-0.140638	-0.298031	-0.326060	-9.000000	-0.497626	-0.391743	-0.703599	-0.684438	-0.687363	-0.673161	-0.527270	0.052396
20	-0.165411	-0.286045	-0.269082	-9.000000	-0.397618	-0.279764	-0.789672	-0.788214	-0.790818	-0.778436	-0.648796	0.199376
21	-0.158085	-0.275459	-0.232878	-9.000000	-0.355024	-0.241736	-0.784005	-0.793827	-0.797257	-0.788761	-0.680896	0.214920
22	-0.139103	-0.242310	-0.197211	-9.000000	-0.306839	-0.230992	-0.561825	-0.568962	-0.551891	-0.550541	-0.507262	0.067729
23	0.149591	0.173039	-0.090727	-9.000000	0.066598	0.037778	0.846497	0.867351	0.844861	0.841500	0.873839	-0.341917
24	0.040338	0.071716	0.142199	-9.000000	0.053499	-0.129234	0.745430	0.828987	0.932695	0.963041	0.859295	-0.232207

	13	14	15	16	17	18	19	20	21	22	23	24
1	-0.070573	-0.117200	-0.143117	-9.000000	-0.137551	-0.124134	-0.140638	-0.165411	-0.158085	-0.139103	0.149591	0.040338
2	0.149736	-0.003170	-0.334564	-9.000000	-0.307392	-0.293953	-0.298031	-0.286045	-0.275459	-0.242310	0.173039	0.071716
3	0.350559	0.117752	-0.315982	-9.000000	-0.342311	-0.343258	-0.326060	-0.269082	-0.232878	-0.197211	-0.090727	0.142199
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.402152	0.074794	-0.233635	-9.000000	-0.511814	-0.526258	-0.497626	-0.397618	-0.355024	-0.306839	0.066598	0.053499
6	0.451258	0.169996	-0.191259	-9.000000	-0.406097	-0.429937	-0.391743	-0.279764	-0.241736	-0.230992	0.037778	-0.129234
7	-0.459627	-0.731354	-0.138602	-9.000000	-0.671457	-0.640926	-0.703599	-0.789672	-0.784005	-0.561825	0.846497	0.745430
8	-0.541258	-0.789104	-0.112725	-9.000000	-0.647932	-0.615621	-0.684438	-0.788214	-0.793827	-0.568962	0.867351	0.828987
9	-0.543696	-0.802703	-0.122362	-9.000000	-0.650170	-0.617453	-0.687363	-0.790818	-0.797257	-0.551891	0.844861	0.932695
10	-0.522002	-0.789294	-0.144906	-9.000000	-0.635115	-0.604377	-0.673161	-0.778436	-0.788761	-0.550541	0.841500	0.963041
11	-0.499222	-0.749341	-0.243295	-9.000000	-0.487606	-0.466812	-0.527270	-0.648795	-0.680896	-0.507262	0.873839	0.859295
12	0.755215	0.602926	-0.348335	-9.000000	0.024513	-0.030864	0.052396	0.199376	0.214920	0.067729	-0.341917	-0.232207
13	1.000000	0.767257	-0.189102	-9.000000	0.023408	-0.053525	0.059548	0.263684	0.295823	0.148836	-0.485437	-0.498959
14	0.767257	1.000000	-0.157537	-9.000000	0.419325	0.360478	0.460171	0.627519	0.633199	0.378900	-0.709587	-0.744315
15	-0.189102	-0.157537	1.000000	-9.000000	-0.195255	-0.170582	-0.193372	-0.206306	-0.188221	-0.149418	-0.192020	-0.135912
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	0.023408	0.419325	-0.195255	-9.000000	1.000000	0.970223	0.980666	0.934707	0.851594	0.540571	-0.486787	-0.566475
18	-0.053525	0.360478	-0.170582	-9.000000	0.970223	1.000000	0.974543	0.907328	0.832211	0.541944	-0.477250	-0.539057
19	0.059548	0.460171	-0.193372	-9.000000	0.980666	0.974543	1.000000	0.958450	0.884839	0.575273	-0.528924	-0.602420
20	0.263684	0.627519	-0.206306	-9.000000	0.934707	0.907328	0.958450	1.000000	0.943165	0.630574	-0.640439	-0.704511
21	0.295823	0.633199	-0.188221	-9.000000	0.851594	0.832211	0.884839	0.943165	1.000000	0.748348	-0.666471	-0.723205
22	0.148836	0.378900	-0.149418	-9.000000	0.540571	0.541944	0.575273	0.630574	0.748348	1.000000	-0.487045	-0.502576
23	-0.485437	-0.709587	-0.192020	-9.000000	-0.486787	-0.477250	-0.528924	-0.640439	-0.666471	-0.487045	1.000000	0.717462
24	-0.498959	-0.744315	-0.135912	-9.000000	-0.566475	-0.539057	-0.602420	-0.704511	-0.723205	-0.502576	0.717462	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	-0.169168
2	-0.284332
3	-0.254639
5	-0.331803
6	-0.264552
7	-0.798265
8	-0.802503
9	-0.805563
10	-0.794971
11	-0.674485
12	0.210149
13	0.283802
14	0.639560
15	-0.200135
17	0.903153
18	0.862429
19	0.935056
20	0.985713
21	0.985665
22	0.699422
23	-0.662931
24	-0.724214

TABLE A5 (PART TWO): WILLIAMS COUNTY, NORTH DAKOTA. AUGUST 15, 1975. FLIGHT LINE #2, PART TWO. LINEAR CORRELATION COEFFICIENT, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 5 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.386749	0.155279	-9.000000	0.219479	0.214161	0.211708	0.184968	0.143144	0.125136	0.169659	-0.013926
2	0.386749	1.000000	0.674602	-9.000000	0.646853	0.572253	0.314333	0.230714	0.175403	0.170216	0.262948	0.354684
3	0.155279	0.674602	1.000000	-9.000000	0.735311	0.561264	0.062773	-0.024595	0.049798	0.095435	0.067621	0.646904
4	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.219479	0.646853	0.735311	-9.000000	1.000000	0.893686	0.315210	0.205364	0.163395	0.154930	0.149508	0.466127
6	0.214161	0.572253	0.561264	-9.000000	0.893686	1.000000	0.258137	0.187875	0.014733	0.027606	0.040702	0.412433
7	0.211708	0.314333	0.062773	-9.000000	0.315210	0.258137	1.000000	0.944230	0.862754	0.856319	0.825192	-0.394540
8	0.184968	0.230714	-0.024595	-9.000000	0.205364	0.187875	0.944230	1.000000	0.934045	0.914694	0.872913	-0.469218
9	0.143144	0.175403	0.049798	-9.000000	0.163395	0.014733	0.862754	0.934045	1.000000	0.980299	0.909340	-0.419007
10	0.125136	0.170216	0.095435	-9.000000	0.154930	0.027606	0.856319	0.914694	0.980299	1.000000	0.929490	-0.338500
11	0.169659	0.262948	0.067621	-9.000000	0.149508	0.040702	0.825192	0.872913	0.909340	0.929490	1.000000	-0.284408
12	-0.013926	0.354684	0.646904	-9.000000	0.466127	0.412433	-0.394540	-0.469218	-0.419007	-0.338500	-0.284408	1.000000
13	0.010257	0.312693	0.446629	-9.000000	0.344451	0.378230	-0.524861	-0.599615	-0.614152	-0.581339	-0.513358	0.800102
14	-0.102653	0.052769	0.150203	-9.000000	0.015771	0.095767	-0.742163	-0.793044	-0.824621	-0.807170	-0.742288	0.625165
15	-0.140108	-0.352735	-0.296126	-9.000000	-0.263585	-0.227978	-0.153975	-0.126665	-0.109722	-0.131685	-0.248916	-0.311365
16	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.264366	-0.520769	-0.468536	-9.000000	-0.578066	-0.476782	-0.561138	-0.525009	-0.534515	-0.534775	-0.431317	-0.082983
18	-0.260000	-0.534089	-0.494988	-9.000000	-0.593584	-0.499627	-0.507820	-0.468819	-0.476208	-0.480703	-0.394687	-0.167208
19	-0.266608	-0.509125	-0.451618	-9.000000	-0.561147	-0.458171	-0.600652	-0.569536	-0.580974	-0.581645	-0.481296	-0.045371
20	-0.256950	-0.416619	-0.337090	-9.000000	-0.470290	-0.366502	-0.725930	-0.713635	-0.728910	-0.729408	-0.631984	0.139100
21	-0.219298	-0.312665	-0.198635	-9.000000	-0.344774	-0.241712	-0.742728	-0.759696	-0.775902	-0.779331	-0.714862	0.207118
22	-0.144904	-0.217022	-0.076882	-9.000000	-0.227562	-0.140541	-0.524067	-0.552189	-0.530235	-0.538128	-0.544386	0.105468
23	0.201026	0.246678	-0.082500	-9.000000	0.167822	0.163880	0.839906	0.843861	0.816896	0.801774	0.856468	-0.387206
24	0.047847	0.065333	0.148352	-9.000000	0.062395	-0.124372	0.714492	0.744928	0.914654	0.954932	0.858513	-0.262167

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.010257	-0.102653	-0.140108	-9.000000	-0.264366	-0.260000	-0.266608	-0.256950	-0.219298	-0.144904	0.201026	0.047847
2	0.312693	0.052769	-0.352735	-9.000000	-0.520769	-0.534089	-0.509125	-0.416619	-0.312665	-0.217022	0.246678	0.065333
3	0.446629	0.150203	-0.296126	-9.000000	-0.468536	-0.494988	-0.451618	-0.337090	-0.198635	-0.076882	-0.082500	0.148352
4	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
5	0.344451	0.015771	-0.263585	-9.000000	-0.578066	-0.593584	-0.561147	-0.470290	-0.344774	-0.227562	0.167822	0.062395
6	0.378230	0.095767	-0.227978	-9.000000	-0.476782	-0.499627	-0.458171	-0.366502	-0.241712	-0.140541	0.163880	-0.124372
7	-0.524861	-0.742163	-0.153975	-9.000000	-0.561838	-0.507820	-0.600652	-0.725930	-0.742728	-0.524067	0.839906	0.714492
8	-0.599615	-0.793044	-0.126665	-9.000000	-0.525009	-0.468819	-0.569536	-0.713635	-0.759696	-0.552189	0.843861	0.744928
9	-0.614152	-0.824621	-0.109722	-9.000000	-0.534515	-0.476208	-0.580974	-0.728910	-0.775902	-0.530235	0.816896	0.914654
10	-0.581339	-0.807170	-0.131685	-9.000000	-0.534775	-0.480703	-0.581645	-0.728409	-0.779331	-0.538128	0.801774	0.954932
11	-0.513358	-0.742288	-0.248916	-9.000000	-0.431317	-0.394687	-0.481296	-0.631984	-0.714862	-0.544386	0.856468	0.858513
12	0.800102	0.625165	-0.311365	-9.000000	-0.082983	-0.167208	-0.045371	0.139100	0.207118	0.105468	-0.387206	-0.262167
13	1.000000	0.781727	-0.170913	-9.000000	-0.047418	-0.149125	-0.001263	0.223690	0.312927	0.205522	-0.505366	-0.543202
14	0.781727	1.000000	-0.159723	-9.000000	0.332337	0.252766	0.387752	0.587218	0.663487	0.383213	-0.695846	-0.747889
15	-0.170913	-0.159723	1.000000	-9.000000	-0.200247	-0.172798	-0.202212	-0.219379	-0.214065	-0.158886	-0.216029	-0.110684
16	-9.000000	-9.000000	-9.000000	1.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000	-9.000000
17	-0.047418	0.332337	-0.200247	-9.000000	1.000000	0.980810	0.985969	0.923426	0.778708	0.460000	-0.392242	-0.458502
18	-0.149125	0.252766	-0.172798	-9.000000	0.980810	1.000000	0.974875	0.888735	0.748501	0.397404	-0.362486	-0.410272
19	-0.001263	0.387752	-0.202212	-9.000000	0.985969	0.974875	1.000000	0.949933	0.822166	0.450190	-0.443288	-0.502780
20	0.223690	0.587218	-0.219379	-9.000000	0.923426	0.888735	0.949933	1.000000	0.909862	0.539604	-0.590787	-0.640727
21	0.312927	0.663487	-0.214065	-9.000000	0.778708	0.748501	0.822166	0.909862	1.000000	0.717439	-0.633499	-0.703451
22	0.205522	0.383213	-0.158886	-9.000000	0.460000	0.397404	0.450190	0.539604	0.717439	1.000000	-0.458606	-0.483237
23	-0.505366	-0.695846	-0.216029	-9.000000	-0.392242	-0.362486	-0.443288	-0.590787	-0.633499	-0.458606	1.000000	0.640175
24	-0.543202	-0.747889	-0.110684	-9.000000	-0.458502	-0.410272	-0.502780	-0.640727	-0.703451	-0.483237	0.640175	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

20 & 21

1	-0.243690
2	-0.373203
3	-0.274184
5	-0.417106
6	-0.311268
7	-0.751448
8	-0.753824
9	-0.769931
10	-0.771426
11	-0.689087
12	0.177111
13	0.274519
14	0.623031
15	-0.221762
17	0.670996
18	0.837788
19	0.906795
20	0.977254
21	0.977157
22	0.643087
23	-0.626399
24	-0.687733

TABLE A5 (PART THREE): WILLIAMS COUNTY, NORTH DAKOTA. AUGUST 15, 1975. FLIGHT LINE #2, PART THREE. LINEAR CORRELATION COEFFICIENT,

ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 5 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.818783	0.263537	0.001530	0.246545	0.101059	0.313082	0.211508	0.183268	0.140193	0.185092	0.166115
2	0.818783	1.000000	0.543285	0.002094	0.450657	0.275311	0.401259	0.243356	0.195794	0.262304	0.376817	0.374534
3	0.263537	0.543285	1.000000	0.000242	0.890974	0.843603	0.286472	-0.002269	-0.028896	0.250728	0.641045	0.886261
4	0.001530	0.002094	0.000242	1.000000	-0.000370	-0.000521	0.001240	0.000769	0.000597	0.000636	0.000573	-0.000454
5	0.246545	0.450657	0.890974	-0.000370	1.000000	0.936159	0.184783	-0.131301	-0.184457	0.067625	0.535816	0.897703
6	0.101059	0.275311	0.843603	-0.000521	0.936159	1.000000	0.148198	-0.212981	-0.225692	0.028855	0.508603	0.876739
7	0.313082	0.401259	0.286472	0.001240	0.184783	0.148198	1.000000	0.873186	0.829687	0.864265	0.748866	0.145070
8	0.211508	0.243356	-0.002269	0.000769	-0.131301	-0.212981	0.873186	1.000000	0.942301	0.880905	0.575676	-0.150444
9	0.183268	0.195794	-0.028896	0.000597	-0.184457	-0.225692	0.829687	0.942301	1.000000	0.929028	0.580915	-0.148045
10	0.140193	0.262304	0.250728	0.000636	0.067625	0.028855	0.864265	0.880905	0.929028	1.000000	0.779722	0.139556
11	0.185092	0.376817	0.641045	0.000573	0.535816	0.508603	0.748866	0.575676	0.580915	0.779722	1.000000	0.588429
12	0.166115	0.374534	0.886261	-0.000454	0.897703	0.876739	0.145070	-0.150444	-0.148045	0.139556	0.588429	1.000000
13	0.214830	0.432036	0.832996	-0.000034	0.859089	0.846454	0.113868	-0.176270	-0.206092	0.055843	0.519186	0.928701
14	0.235077	0.507500	0.779882	0.000335	0.690515	0.664916	0.044315	-0.204341	-0.244593	-0.023289	0.375262	0.764630
15	-0.055542	-0.101076	-0.051702	-0.000886	-0.012845	0.003451	-0.064929	-0.057681	-0.050209	-0.064613	-0.052246	-0.007474
16	-0.000052	-0.000291	-0.000543	0.036457	-0.000640	-0.000601	-0.000407	0.000220	-0.000208	0.000101	-0.000620	-0.000557
17	0.088801	0.172588	0.355543	-0.001891	0.522900	0.460700	-0.351905	-0.553700	-0.588350	-0.431033	-0.041650	0.524557
18	-0.065908	-0.004510	0.365388	-0.002134	0.473332	0.496000	-0.379909	-0.580605	-0.596579	-0.428105	-0.028662	0.528955
19	0.003391	0.080971	0.411648	-0.002076	0.533672	0.531356	-0.373561	-0.591511	-0.613966	-0.435623	-0.014224	0.580711
20	0.071209	0.177443	0.506932	-0.001757	0.616374	0.600112	-0.329648	-0.568090	-0.595102	-0.399361	0.046166	0.605548
21	0.156890	0.309957	0.586995	-0.001180	0.634325	0.603835	-0.214584	-0.460091	-0.495364	-0.287186	0.140034	0.685616
22	0.129731	0.239992	0.467990	-0.000658	0.482728	0.467065	-0.167025	-0.353332	-0.360026	-0.202960	0.120231	0.543471
23	0.013988	0.226399	0.543872	0.001128	0.504284	0.512232	0.675683	0.467214	0.425134	0.622608	0.762709	0.491290
24	-0.035865	-0.115302	-0.082119	-0.001734	-0.081903	-0.134204	0.371076	0.535857	0.652830	0.620857	0.374278	0.021724

	13	14	15	16	17	18	19	20	21	22	23	24
1	0.214830	0.235077	-0.055542	-0.000052	0.088801	-0.065908	0.003391	0.071209	0.156890	0.129731	0.013988	-0.035865
2	0.432036	0.507500	-0.101076	-0.000291	0.172588	-0.004510	0.080971	0.177443	0.309957	0.239992	0.226399	-0.115302
3	0.832996	0.779882	-0.051702	-0.000543	0.355543	0.365388	0.411648	0.506932	0.586995	0.467990	0.543872	-0.082119
4	-0.000034	0.000335	-0.000886	0.036457	-0.001891	-0.002134	-0.002076	-0.001757	-0.001180	-0.000658	0.001128	-0.001734
5	0.859089	0.690515	-0.012845	-0.000640	0.522900	0.473332	0.533672	0.616374	0.634325	0.482728	0.504284	-0.081903
6	0.846454	0.664916	0.003451	-0.000601	0.460700	0.496000	0.531356	0.600112	0.603835	0.467065	0.512232	-0.134204
7	0.113868	0.044315	-0.064929	-0.000407	-0.351905	-0.379909	-0.373561	-0.329648	-0.214584	-0.167025	0.675683	0.371076
8	-0.176270	-0.204341	-0.057681	0.000220	-0.553700	-0.580605	-0.591511	-0.568090	-0.460091	-0.353332	0.467214	0.535857
9	-0.206092	-0.244593	-0.050209	-0.000208	-0.588350	-0.596579	-0.613966	-0.595102	-0.495364	-0.360026	0.425134	0.652830
10	0.055843	-0.023289	-0.064613	0.000101	-0.431033	-0.428105	-0.435623	-0.399361	-0.287186	-0.202960	0.622608	0.620857
11	0.519186	0.375262	-0.052246	-0.000620	-0.041650	-0.028662	-0.014224	0.046166	0.140034	0.120231	0.752709	0.374278
12	0.928701	0.764630	-0.007474	-0.000557	0.524557	0.528955	0.580711	0.605548	0.685616	0.543471	0.491290	0.021724
13	1.000000	0.835935	-0.019127	-0.000457	0.502493	0.509220	0.569422	0.671261	0.714696	0.564446	0.448212	-0.160352
14	0.836935	1.000000	-0.045358	-0.000335	0.474752	0.504148	0.554600	0.642084	0.712157	0.567427	0.279511	-0.298002
15	-0.019127	-0.045358	1.000000	0.000687	0.012957	0.034404	0.023641	0.013426	-0.016492	-0.022505	-0.058744	0.043716
16	-0.000457	-0.000335	0.000687	1.000000	-0.000305	-0.000254	-0.000278	-0.000299	-0.000401	-0.000270	-0.000658	0.000506
17	0.502493	0.474752	0.012957	-0.000305	1.000000	0.868161	0.918926	0.915486	0.852653	0.653318	0.050272	-0.316721
18	0.509220	0.504148	0.034404	-0.000254	0.868161	1.000000	0.957219	0.926864	0.860713	0.690033	0.009142	-0.332238
19	0.569422	0.554600	0.023641	-0.000278	0.918926	0.957219	1.000000	0.980568	0.921954	0.736566	0.028561	-0.350723
20	0.671261	0.642084	0.013426	-0.000299	0.915486	0.926864	0.980568	1.000000	0.957372	0.769790	0.077232	-0.355140
21	0.714694	0.712157	-0.016492	-0.000401	0.852653	0.860713	0.921954	0.957372	1.000000	0.838264	0.150740	-0.384234
22	0.564445	0.567427	-0.022505	-0.000270	0.553318	0.690033	0.736566	0.769790	0.838264	1.000000	0.101690	-0.262827
23	0.448212	0.279511	-0.058744	-0.000658	0.050272	0.009142	0.028561	0.077232	0.150740	0.101690	1.000000	0.127553
24	-0.160352	-0.298002	0.043716	0.000506	-0.316721	-0.332238	-0.350723	-0.355140	-0.384234	-0.262827	0.127553	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	0.113986
2	0.244329
3	0.551669
4	-0.001498
5	0.631844
6	0.629431
7	-0.276834
8	-0.521230
9	-0.552644
10	-0.348588
11	0.092570
12	0.682588
13	0.699813
14	0.683385
15	-0.001095
16	-0.000352
17	0.894588
18	0.904462
19	0.962474
20	0.989922
21	0.988630
22	0.811539
23	0.114105
24	-0.373247

TABLE A6: ALL SITES COMBINED. JUNE 9, JUNE 22, JULY 6, AUGUST 15, 1975. LINEAR CORRELATION COEFFICIENTS, UNCOMPENSATED DATA. COMPARE WITH FIGURE 6 IN TEXT.

	1	2	3	4	5	6	7	8	9	10	11	12
1	1.000000	0.740951	-0.243434	0.001365	-0.250197	-0.375767	0.236803	0.248856	0.240480	0.096227	0.041971	-0.414128
2	0.740951	1.000000	0.118962	0.002477	-0.026297	-0.224784	0.168649	0.136107	0.099366	0.034618	-0.052950	-0.223707
3	-0.243434	0.118962	1.000000	0.000495	0.753952	0.697494	-0.291739	-0.423700	-0.443875	-0.290145	-0.175013	0.079825
4	0.001365	0.002477	0.000495	1.000000	-0.000607	-0.000699	0.000762	0.000263	0.000074	0.000136	0.000020	-0.000888
5	-0.250197	-0.026297	0.753952	-0.000607	1.000000	0.886200	-0.417837	-0.581335	-0.631346	-0.530031	-0.345955	0.766067
6	-0.375767	-0.224784	0.697494	-0.000699	0.886200	1.000000	-0.389159	-0.615623	-0.612165	-0.503229	-0.306522	0.765565
7	0.236803	0.168649	-0.291739	0.000762	-0.417837	-0.389159	1.000000	0.905948	0.871070	0.860501	0.749705	-0.515655
8	0.248856	0.136107	-0.423700	0.000263	-0.581335	-0.615623	0.905948	1.000000	0.956779	0.917548	0.765538	-0.631746
9	0.240480	0.099366	-0.443875	0.000074	-0.631346	-0.612165	0.871070	0.956779	1.000000	0.959229	0.791208	-0.607176
10	0.096227	0.034618	-0.290145	0.000136	-0.530031	-0.503229	0.860501	0.917548	0.959229	1.000000	0.842007	-0.456177
11	0.041971	-0.052950	-0.175013	0.000020	-0.345955	-0.306522	0.749705	0.765538	0.791208	0.842007	1.000000	-0.317747
12	-0.414128	-0.223767	0.679825	-0.000888	0.766057	0.765565	-0.515655	-0.631746	-0.607176	-0.456177	-0.317747	1.000000
13	-0.315574	-0.059998	0.707047	-0.000089	0.715080	0.726539	-0.556797	-0.673307	-0.693985	-0.578620	-0.462673	0.825374
14	-0.140203	0.113733	0.546948	0.000411	0.463414	0.464718	-0.555795	-0.632576	-0.660776	-0.600816	-0.550065	0.559429
15	-0.133619	-0.217151	-0.252961	-0.000859	-0.164055	-0.116128	-0.157370	-0.100575	-0.099473	-0.146674	-0.236189	-0.180739
16	0.000152	-0.000177	-0.000651	0.043514	-0.000766	-0.000565	-0.000198	0.000391	-0.000005	0.000349	-0.000293	-0.000054
17	-0.105254	-0.120949	-0.077068	-0.002353	0.206658	0.134406	-0.636764	-0.622568	-0.633243	-0.650767	-0.485977	0.182790
18	-0.281224	-0.341399	-0.011025	-0.002602	0.172632	0.224337	-0.670627	-0.662032	-0.654924	-0.652766	-0.462458	0.241045
19	-0.234919	-0.274231	-0.003251	-0.002643	0.213031	0.232040	-0.718428	-0.711162	-0.709051	-0.711363	-0.535507	0.266933
20	-0.233208	-0.217123	0.097359	-0.002379	0.312582	0.313842	-0.786369	-0.792088	-0.795394	-0.790566	-0.623260	0.371432
21	-0.188116	-0.078396	0.169033	-0.001666	0.300342	0.293177	-0.745424	-0.764308	-0.780858	-0.761610	-0.646259	0.352071
22	-0.138831	-0.078202	0.091848	-0.000857	0.134346	0.151740	-0.547718	-0.541826	-0.532366	-0.533327	-0.500669	0.197771
23	-0.201163	-0.164838	-0.004323	0.000829	-0.078993	-0.012790	0.641207	0.541774	0.513255	0.613550	0.600461	-0.135151
24	0.088780	-0.176087	-0.462769	-0.001749	-0.475557	-0.495802	0.507591	0.682286	0.769673	0.738838	0.641852	-0.338443

	13	14	15	16	17	18	19	20	21	22	23	24
1	-0.315574	-0.140203	-0.133619	0.000152	-0.105254	-0.281224	-0.234919	-0.233208	-0.188116	-0.138831	-0.201163	0.088780
2	-0.059998	0.113733	-0.217151	-0.000177	-0.120949	-0.341399	-0.274231	-0.217123	-0.078396	-0.078202	-0.164838	-0.176087
3	0.707947	0.546948	-0.252961	-0.000651	-0.077068	-0.011025	-0.003251	0.097359	0.169033	0.091848	-0.004323	-0.462769
4	-0.000089	0.000411	-0.000859	0.043514	-0.002353	-0.002602	-0.002643	-0.002379	-0.001666	-0.000857	0.000829	-0.001749
5	0.715080	0.463414	-0.164055	-0.000766	0.206558	0.172632	0.213031	0.312582	0.300342	0.134346	-0.078993	-0.475557
6	0.726539	0.464718	-0.116128	-0.000565	0.134406	0.224337	0.232040	0.313842	0.293177	0.151740	-0.012790	-0.495802
7	-0.556797	-0.555795	-0.157370	-0.000198	-0.636764	-0.670627	-0.718428	-0.786369	-0.745424	-0.547718	0.641207	0.507591
8	-0.673307	-0.632576	-0.100575	0.000391	-0.622568	-0.662032	-0.711162	-0.792088	-0.764308	-0.541826	0.541774	0.682286
9	-0.693985	-0.660776	-0.099473	-0.000005	-0.633243	-0.654924	-0.709051	-0.795394	-0.780858	-0.532366	0.513255	0.769673
10	-0.578620	-0.600816	-0.146674	0.000349	-0.650767	-0.652766	-0.711363	-0.790566	-0.761610	-0.533327	0.613550	0.738838
11	-0.462673	-0.550065	-0.236189	-0.000293	-0.485977	-0.462458	-0.535507	-0.623260	-0.646259	-0.500669	0.600461	0.641852
12	0.825374	0.559429	-0.180739	-0.000054	0.182790	0.241045	0.266933	0.371432	0.352071	0.197771	-0.135151	-0.338443
13	1.000000	0.719690	-0.152209	-0.000498	0.155477	0.212316	0.254361	0.394035	0.439023	0.268507	-0.223381	-0.556783
14	0.719690	1.000000	-0.143212	-0.000302	0.170642	0.256208	0.287978	0.402011	0.488913	0.327351	-0.389781	-0.449487
15	-0.152209	-0.143212	1.000000	0.000831	-0.109426	-0.081285	-0.104848	-0.123495	-0.160335	-0.133231	-0.204225	-0.033036
16	-0.000498	-0.000302	0.000831	1.000000	-0.000150	-0.000102	-0.000119	-0.000158	-0.000324	-0.000159	-0.000511	0.000644
17	0.155477	0.170642	-0.109426	-0.000150	1.000000	0.813865	0.878982	0.968934	0.764762	0.469195	-0.311035	-0.373612
18	0.212316	0.256208	-0.081285	-0.000102	0.813865	1.000000	0.937709	0.900533	0.804116	0.541443	-0.367682	-0.407690
19	0.254361	0.287978	-0.104848	-0.000119	0.878982	0.937709	1.000000	0.972407	0.881172	0.591289	-0.400238	-0.451953
20	0.394036	0.402011	-0.123495	-0.000158	0.968934	0.900533	0.972407	1.000000	0.926807	0.631005	-0.448984	-0.540262
21	0.439023	0.488913	-0.160335	-0.000324	0.764762	0.804116	0.881172	0.926807	1.000000	0.745007	-0.443645	-0.651934
22	0.268507	0.327351	-0.133231	-0.000159	0.469195	0.541443	0.591289	0.631005	0.745007	1.000000	-0.383752	-0.439349
23	-0.223381	-0.389781	-0.204225	-0.000511	-0.311035	-0.367682	-0.400238	-0.448984	-0.443645	-0.383752	1.000000	0.244396
24	-0.556783	-0.449487	-0.033036	0.000644	-0.373612	-0.407690	-0.451953	-0.540262	-0.651934	-0.439349	0.244396	1.000000

TM CHAN	MSS CHAN
1	3
3	6
4	8
5	9
6	12
7	20 & 21

	20 & 21
1	-0.214213
2	-0.154244
3	0.143430
4	-0.002079
5	0.312539
6	0.300757
7	-0.781362
8	-0.793784
9	-0.803303
10	-0.791425
11	-0.646054
12	0.359057
13	0.423463
14	0.451495
15	-0.145488
16	-0.000241
17	0.834962
18	0.870897
19	0.946620
20	0.983438
21	0.979521
22	0.697864
23	-0.454832
24	-0.604294

TABLE A6 (CONTINUED): ALL SITES COMBINED. JUNE 9, JUNE 22, JULY 6, AUGUST 15, 1975. LINEAR CORRELATION COEFFICIENTS, ALBEDO COMPENSATED DATA.

COMPARE WITH FIGURE 6 IN TEXT.