

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 73-076

Date: 16 May 1973

Aircraft No: 4

Julian Date: 136

Sensor Package: Vinten System B/RC-10

Purpose of Flight: ERTS-1 Aircraft Support
Proposal No. 147

Area(s) Covered: S.E. Arizona and southern California

SENSOR DATA

Accession No:	01172	01173	01174	01175	01176
Sensor ID No:	011	012	013	014	017
Sensor Type:	Vinten	Vinten	Vinten	Vinten	RC-10
Lens Focal Length:	1-3/4"	1-3/4"	1-3/4"	1-3/4"	6"
Film Type:	Plus-X, 2402	Plus-X, 2402	Infrared Aerographic, 2424	Aerochrome Infrared, 2443	Aerochrome Infrared, 2443
Spectral Band:	475-575nm	580-680nm	690-760nm	510-900nm	510-900nm
f Stop:	16	16	11	11	11
Shutter Speed:	1/250	1/250	1/250	1/250	1/250
No. of Frames:	67	67	67	67	59
% Overlap	60	60	60	60	60
Quality	Excellent	Excellent	Excellent	Excellent	Excellent
Remarks					

FLIGHT SUMMARY

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This is an ERTS-1 Aircraft Support flight for Proposal No. 147 (Bentley) of selected test sites in southeastern Arizona and the Salton Sea area of southern California (see Track Map).

All flight lines are affected by varying percentages of light scattered to some broken cumulus cloud cover occasionally mixed with thin cirrus (see Flight Line Data). Maximum cloud cover, however, does not exceed 30%.

All imagery is of excellent quality with no malfunctions noted. Both color infrared films have excellent color balance and saturation.

An autopilot malfunction occurred on this flight, but the pilot was able to maintain flight line navigation manually.

FLIGHT LINE DATA

FLIGHT NO. 73-076

VINTEN

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
A-B	0001-0012	18:53:25	19:01:58	65,000	10% scattered cumulus
C-D	0013-0024	19:04:50	19:13:30	"	10% scattered cumulus, frs. 0013-0021; rest clear
E-F	0025-0035	19:16:33	19:24:35	"	10-30% scattered cumulus
G-H	0036-0042	20:10:41	20:14:58	"	10-20% broken cumulus/light cirrus
I-J	0043-0053	20:19:36	20:27:52	"	10-30% light cirrus, frs. 0043-0047; 10% scattered cumulus, frs. 0052-0053; rest clear
K-L	0054-0063	20:31:00	20:38:04	"	10-30% scattered cumulus, frs. 0054-0061; rest clear
M-N	0064-0067	20:40:27	20:42:54	"	10% broken cumulus, fr. 0067

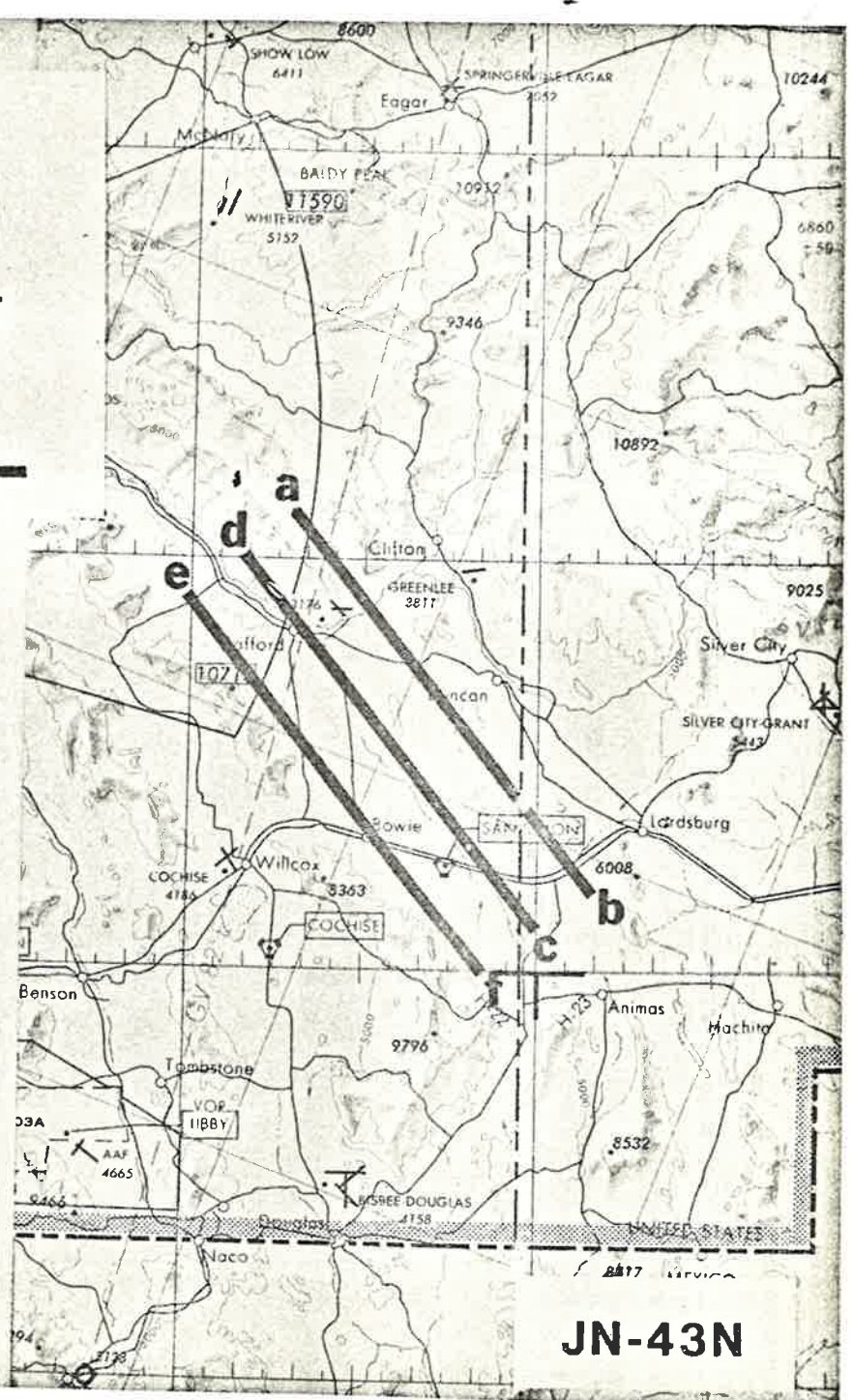
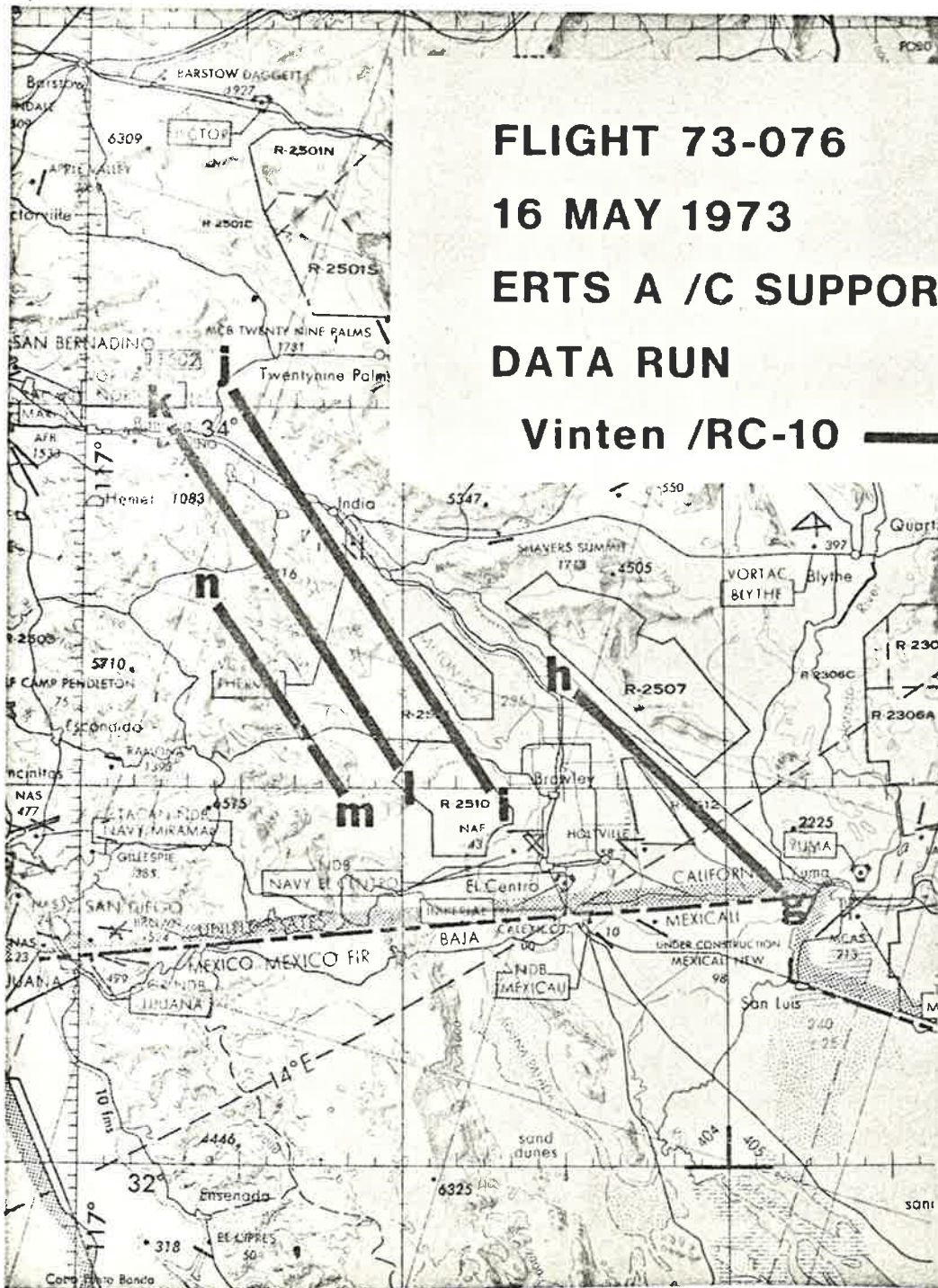
FLIGHT LINE DATA

FLIGHT NO. 73-076

RC-10

Check Points	Frame Numbers	Time (GMT - hr. min. sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
---	1414	17:06:55	-----	50,000	Clear/clearing frame over Fremont, California
A-B	1415-1424	18:52:58	19:01:32	65,000	10% scattered cumulus
C-D	1425-1434	19:04:25	19:13:05	"	10% scattered cumulus, frs. 1425-1431; rest clear
E-F	1435-1443	19:16:08	19:24:03	"	10-30% scattered cumulus
G-H	1444-1449	20:10:17	20:14:34	"	10-20% broken cumulus/light cirrus
I-J	1450-1459	20:19:12	20:27:31	"	10-30% light cirrus, frs. 1450-1454; 10% scattered cumulus, frs. 1458-1459; rest clear
K-L	1460-1468	20:30:37	20:37:42	"	10-30% scattered cumulus, frs. 1460-1466; rest clear
M-N	1469-1472	20:40:04	20:43:01	"	10% broken cumulus, fr. 1472; rest clear

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ERTS A /C SUPPORT
DATA RUN
Vinten /RC-10



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