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National Aeronautics and Space Administration

Earth Resources Aircraft Project

EROS DATA CENTER
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Flight Summary Report

Flight No. 72-175

Date 6 October 1972

FSR- 181



Airborne Science Office

Ames Research Center, Moffett Field, California

18 October 1972

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 72-175

Date: 6 October 1972

Aircraft No: 4

Julian Date: 280

Sensor Package: Vinten System A/RC-10

Purpose of Flight: ERTS-1 Aircraft Support
Proposal 317-044

Area(s) Covered: Northwestern California

SENSOR DATA

Accession No:	00722	00723	00724	00725	00726
Sensor ID No:	001	002	003	004	016
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	680-760nm	510-900nm	510-900nm
f Stop:	13.5	11	9.5	11	8
Shutter Speed:	1/250	1/250	1/250	1/250	1/350
No. of Frames:	112	112	112	112	97
% Overlap	50	50	50	50	50
Quality	Good	Good	Good	Poor	Fair
Remarks				Heavy scratches throughout roll	Processing scratches. heavy frs. 6563-66; minor frs. -6541, 6545-53; 6571, 72

FLIGHT SUMMARY

72-175 ..

This is an ERTS-1 Aircraft Support flight for Proposal 317-044 (Colwell) covering portions of the northwestern California coast and Coastal Range Mountains (see Track Map). All flight lines are cloud-free.

Quality of the Vinten camera imagery is good except for the color infrared film which suffered heavy processing scratches throughout the roll. The RC-10 color infrared film is slightly underexposed and has a fairly heavy blue color balance. Additionally, some frames within the roll received minor to heavy processing scratches (see summary page).

FLIGHT LINE DATA

FLIGHT NO. 72-175

VINTENS

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
A-B	0001-0016	18 16 16	18 27 55	65,000	Clear
C-D	0017-0035	18 30 37	18 44 56	"	"
E-F	0036-0043	18 53 33	18 58 42	"	"
F-G	0044-0058	18 59 21	19 10 23	"	"
H-I	0059-0073	19 14 15	19 25 53	"	"
I-J	0074-0090	19 26 43	19 40 05	"	"
K-L	0091-0101	19 41 57	19 50 15	"	"
M-N	0102-0112	19 52 58	20 01 00	"	"

FLIGHT LINE DATA

FLIGHT NO. 72-175

RC-10

Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
A-B	6527-6540	18 17 57	18 23 36	65,000	Clear
C-D	6541-6556	18 36 19	18 45 40	"	"
E-F	6557-6563	18 54 17	18 59 24	"	"
F-G	6564-6576	19 00 06	19 11 06	"	"
H-I	6577-6588	19 14 59	19 25 40	"	"
I-J	6589-6603	19 26 38	19 40 17	"	"
K-L	6604-6613	19 42 42	19 51 03	"	"
M-N	6614-6623	19 53 43	20 01 46	"	"

LEGEND

Metropolitan Area
with Transportation
Network



Small Cities,
or Limits Unknown



Towns and Villages

International
Boundaries



Railroads



Main Roads



Trails



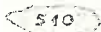
Escarpments



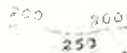
Critical Elevations **14437**



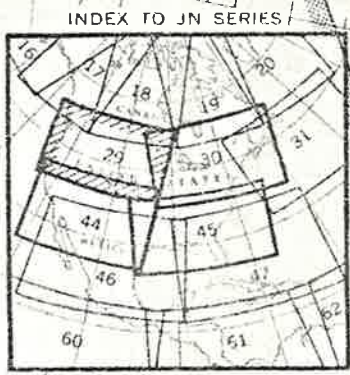
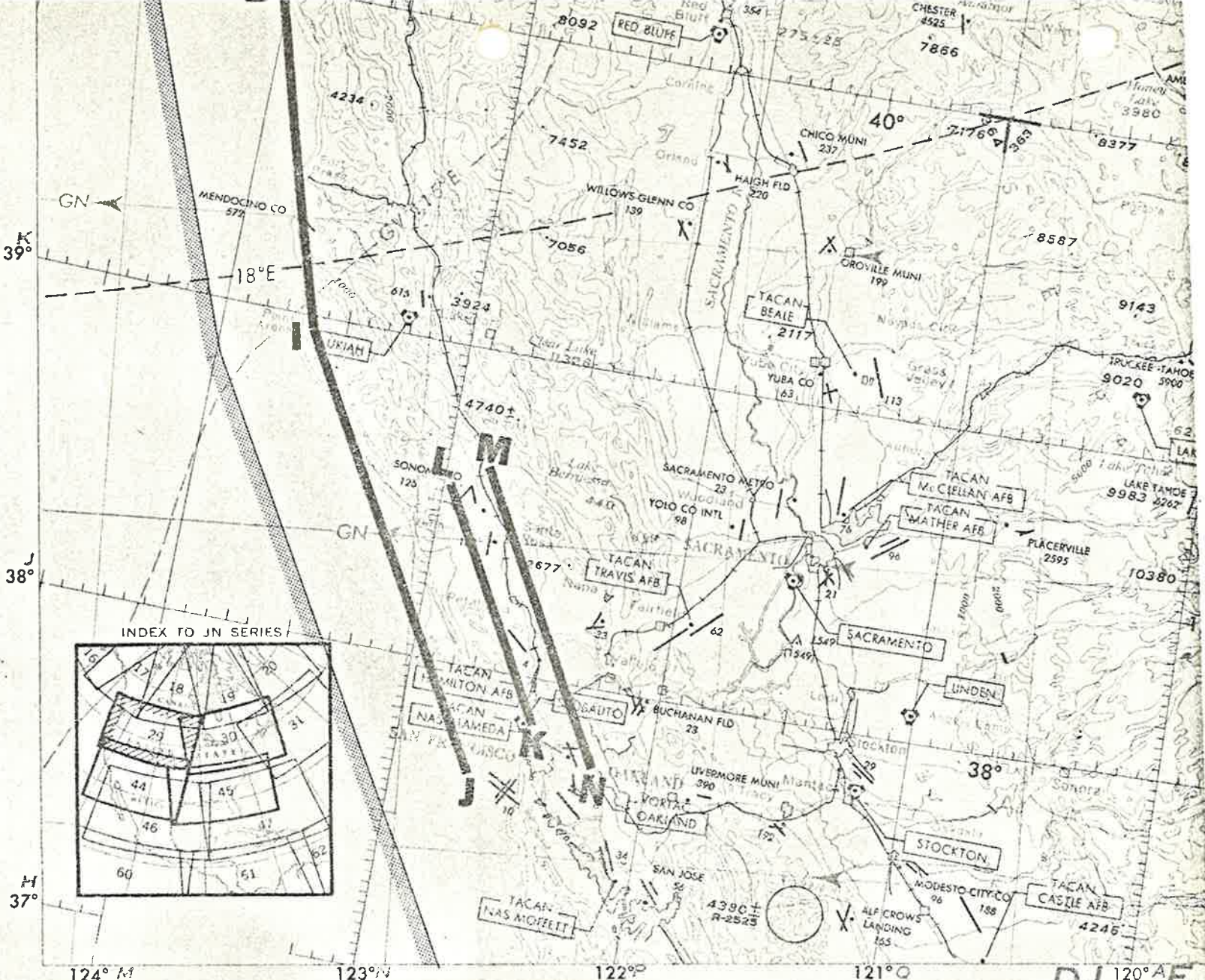
Lake Elevations **510**



Stream Elevations



Level Areas



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JN-29 N

SCALE 1:2,000,000

CAUTION
AIR INFORMATION CURRENT THROUGH
26 JANUARY 1970
Consult Notices to Airmen (NOTAMS),
Flight Information Publications (FIPs) for
latest air information; the Chart Update
Manual (CHUM) for other chart revision
information.
LINES OF EQUAL MAGNETIC VARIATION FOR

ICAO ROUTE

ECHO ROUTE

▲ Compulsory Reporting Point

△ Non-Compulsory Reporting Point

SPECIAL USE AIRSPACE

Prohibited Area

P-16

Danger,
Restricted,
Warning,
Alert, or
Caution Area

D-4

Number indicates inter-
nationally recognized numeri-
cal identification.

All special use Airspace
is portrayed in the body
of this chart with the
following exceptions:

- (1) Those that are acti-
vated only by NOTAM
- (2) Those below 10,000 ft.

▲ Obstructions shown
are over 1500' above
ground level

FLIGHT 72-175

6 OCTOBER 1972

ERTS A /C SUPPORT

DATA RUN

Vinten /RC-10

