

# FLIGHT SUMMARY REPORT

**Flight Number:** 94-016  
**Calendar/Julian Date:** 07 December 1993 • 341  
**Sensor Package:** Dual Wild-Heerbrug RC-10  
Dual Hycon HR-732  
Airborne Ocean Color Imager (AOCI)  
Thermal Infrared Multispectral Scanner (TIMS)  
Air Particulate Sampler (APS)  
**Area(s) Covered:** Puerto Rico and Virgin Islands  
**Investigator(s):** Joyce, NASA-Stennis  
**Aircraft #:** 708

## SENSOR DATA

<b>Accession #:</b>	04659	04660	04661	04662
<b>Sensor ID #:</b>	076	035	020	039
<b>Sensor Type:</b>	RC-10	RC-10	HR-732	HR-732
<b>Focal Length:</b>	12" 304.89 mm	6" 153.46 mm	24" 609.6 mm	24" 609.6 mm
<b>Film Type:</b>	Aerial Color SO-242	Aerial Color SO-242	High Definition Aerochrome IR SO-131	Aerial Color SO-242
<b>Filtration:</b>	None	2.2 AV	None	None
<b>Spectral Band:</b>	400-700 nm	400-700 nm	510-900 nm	400-700 nm
<b>f Stop:</b>	4	4	8	8
<b>Shutter Speed:</b>	1/200	1/75	1/75	1/75
<b># of Frames:</b>	30	20	50	21
<b>% Overlap:</b>	60	60	60	60
<b>Quality:</b>	Excellent	Excellent	Excellent	Excellent
<b>Remarks:</b>				

**FLIGHT SUMMARY REPORT**  
**94-016**

**SENSOR DATA continued**

<b>Accession #:</b>	----	----	----
<b>Sensor ID #:</b>	090	086	024
<b>Sensor Type:</b>	AOCI	TIMS	APS
<b>Focal Length:</b>	----	----	----
<b>Film Type:</b>	----	----	----
<b>Filtration:</b>	----	----	----
<b>Spectral Band:</b>	----	----	----
<b>f Stop:</b>	----	----	----
<b>Shutter Speed:</b>	----	----	----
<b># of Frames:</b>	----	----	----
<b>% Overlap:</b>	----	----	----
<b>Quality:</b>	Excellent	Good	----
<b>Remarks:</b>			

**CAMERA FLIGHT LINE DATA  
FLIGHT NO. 94-016**

Accession # 04659

Sensor # 076

Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
A - B	9769-9773	14:15:39	14:17:38	65000/19800	10-20% scattered cumulus (frames 9769-9773)
C - D	9774-9777	14:21:00	14:22:29	"	10-20% cumulus (frames 9774-9777)
E - F	9778-9784	14:38:04	14:41:00	"	10% cumulus (frame 9784)
G - H	9785-9792	14:52:40	14:56:03	"	10-30% scattered cumulus (frames 9785-9792)
I - J	9793-9798	15:02:11	15:04:36	"	10% scattered cumulus (frame 9798)

**NOTE: TIMES TAKEN FROM 9X18 SENSOR #20**

**CAMERA FLIGHT LINE DATA  
FLIGHT NO. 94-016**

Accession # 04660

Sensor # 035

Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
A - B	1093-1094	14:16:46	14:17:46	65000/19800	10-20% scattered cumulus
C - D	1095-1096	14:21:10	14:22:08	"	10% scattered cumulus
E - F	1097-1100	14:38:10	14:41:06	"	10-20% scattered cumulus
G - H	1101-1105	14:52:47	14:56:41	"	20-40% scattered cumulus
H - I	1106-1108	14:57:39	14:59:36	"	20-30% scattered cumulus
J - K	1109-1112	15:02:12	15:05:08	"	20-30% scattered cumulus; stepwedge (frame 1112)

**CAMERA FLIGHT LINE DATA  
FLIGHT NO. 94-016**

Accession # 04661

Sensor # 020

Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
A - B	0001-0009	14:15:39	14:17:38	65000/19800	10-20% scattered cumulus (frames 0001-0009)
C - D	0010-0016	14:21:00	14:22:29	"	10-20% scattered cumulus (frames 0010-0016)
E - F	0017-0029	14:38:04	14:41:00	"	10% cumulus (frame 0029)
G - H	0030-0039	14:52:40	14:54:51	"	10-40% scattered cumulus (frames 0030-0039)
I - J	0040-0050	15:02:11	15:04:36	"	10% scattered cumulus (frames 0049-0050)
<b>NOTE: MINOR LIGHT LEAK NEAR DATA BLOCK</b>					

**CAMERA FLIGHT LINE DATA  
FLIGHT NO. 94-016**

Accession # 04662

Sensor # 039

Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
G - H	0001-0010	14:52:42	14:54:53	65000/19800	30-40% cumulus (frames 0001-0005); 10% cumulus (frames 0006-0010); light strike (frame 0010)
I - J	0011-0021	15:02:13	15:04:39	"	Light strike and stepwedge (frame 0021)
<b>NOTE: LIGHT STRIKE TOP RIGHT CORNER THROUGHOUT ROLL</b>					

# AOCI SCANNER FLIGHT LINE DATA

FLIGHT NO. 94-016

## DAEDALUS FLIGHT DATA FLIGHT NUMBER: 94-016

Check Points	A c t u a l t i m e b e g i n	A c t u a l s c a n l i n e b e g i n	A l t i t u d e f e e t / m e t e r	S c a n S p e e d ( r p s )	t o t a l G o o d s c a n l i n e s	t o t a l I n t e r p o l a t e d s c a n l i n e s	t o t a l R e p e a t e d s c a n l i n e s
A-D	14:15: 3.0 14:23:16.0	9586 12488	65000/19812	6.25	2901	0	2
EF	14:37:57.0 14:41:27.0	17643 18784	65000/19812	6.25	1001	1	140
GH	14:51: 8.0 14:56:13.0	22199 23999	65000/19812	6.25	1801	0	0
I-J	15:02:26.0 15:05:10.0	26197 27164	65000/19812	6.25	968	0	0

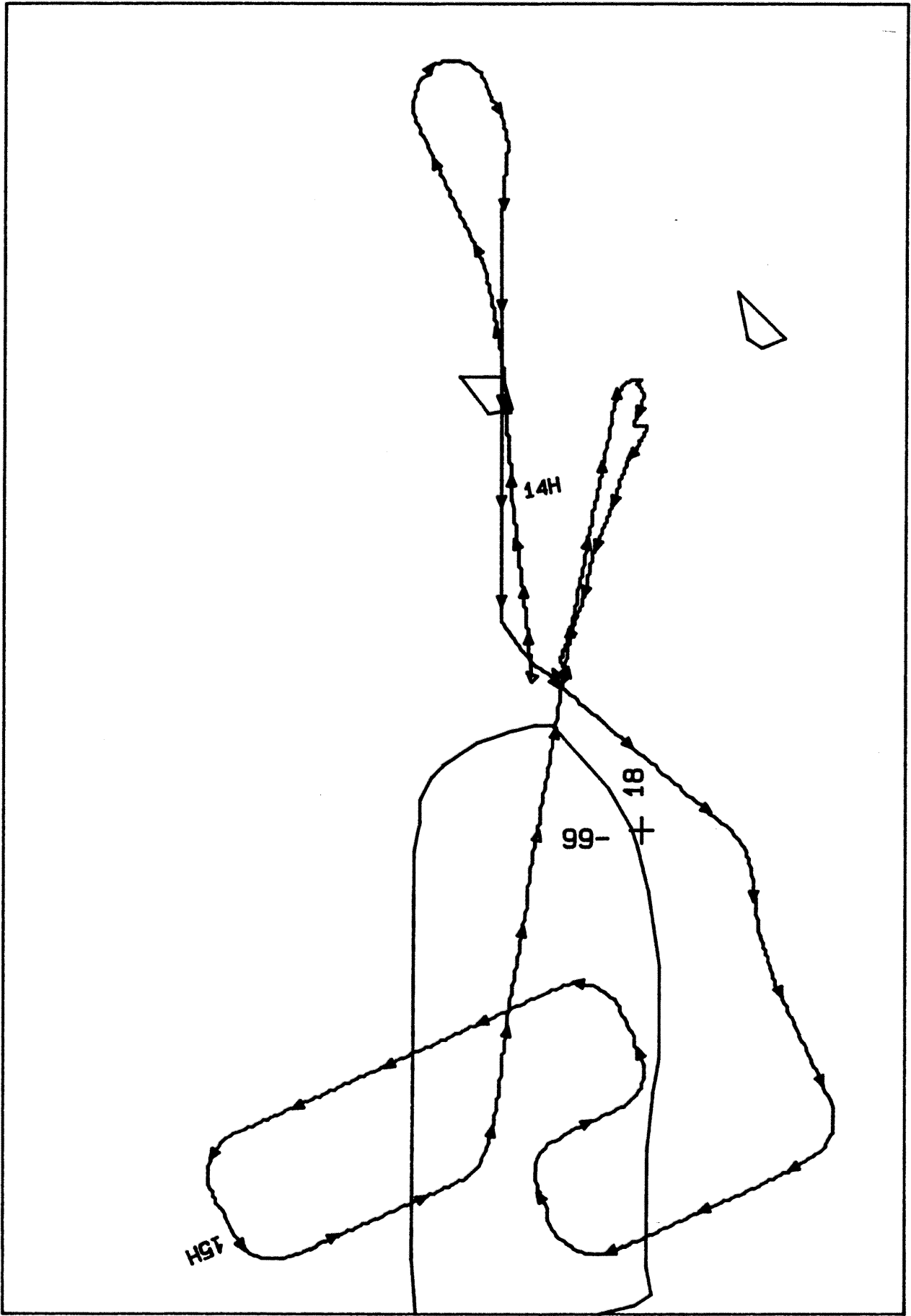
# TIMS SCANNER FLIGHT LINE DATA

## FLIGHT NO. 94-016

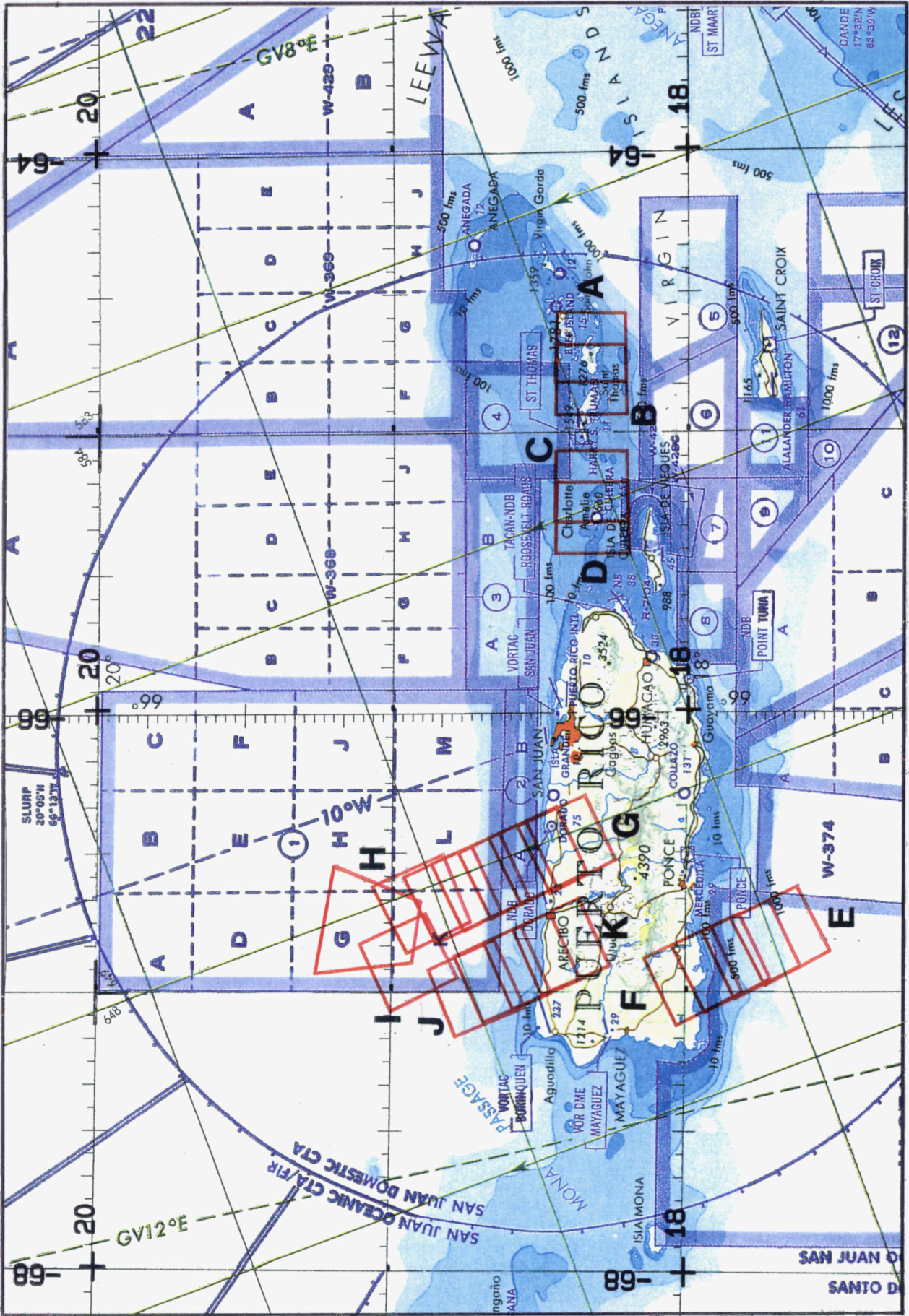
TIMS FLIGHT DATA  
FLIGHT NUMBER: 94-016

Check Points	A c t u a l		A c t u a l		Altitude feet/meter	Scan Speed (rps)	total		total	
	t i m e b e g i n	(GMT) e n d	s c a n l i n e b e g i n	e n d			G o o d s c a n l i n e s	I n t e r p o l a t e d s c a n l i n e s	R e p e a t e d s c a n l i n e s	
A-D	14:15:10.0	14:23:17.0	11945	15509	65000/19812	7.30	3565	0	0	
BP	14:37:58.0	14:41:21.0	21944	23429	65000/19812	7.30	1486	0	0	
GM	14:51:03.0	14:56:01.0	27686	29864	65000/19812	7.30	2179	0	0	
IW	15:02:20.0	15:05:03.0	32636	33824	65000/19812	7.30	1189	0	0	

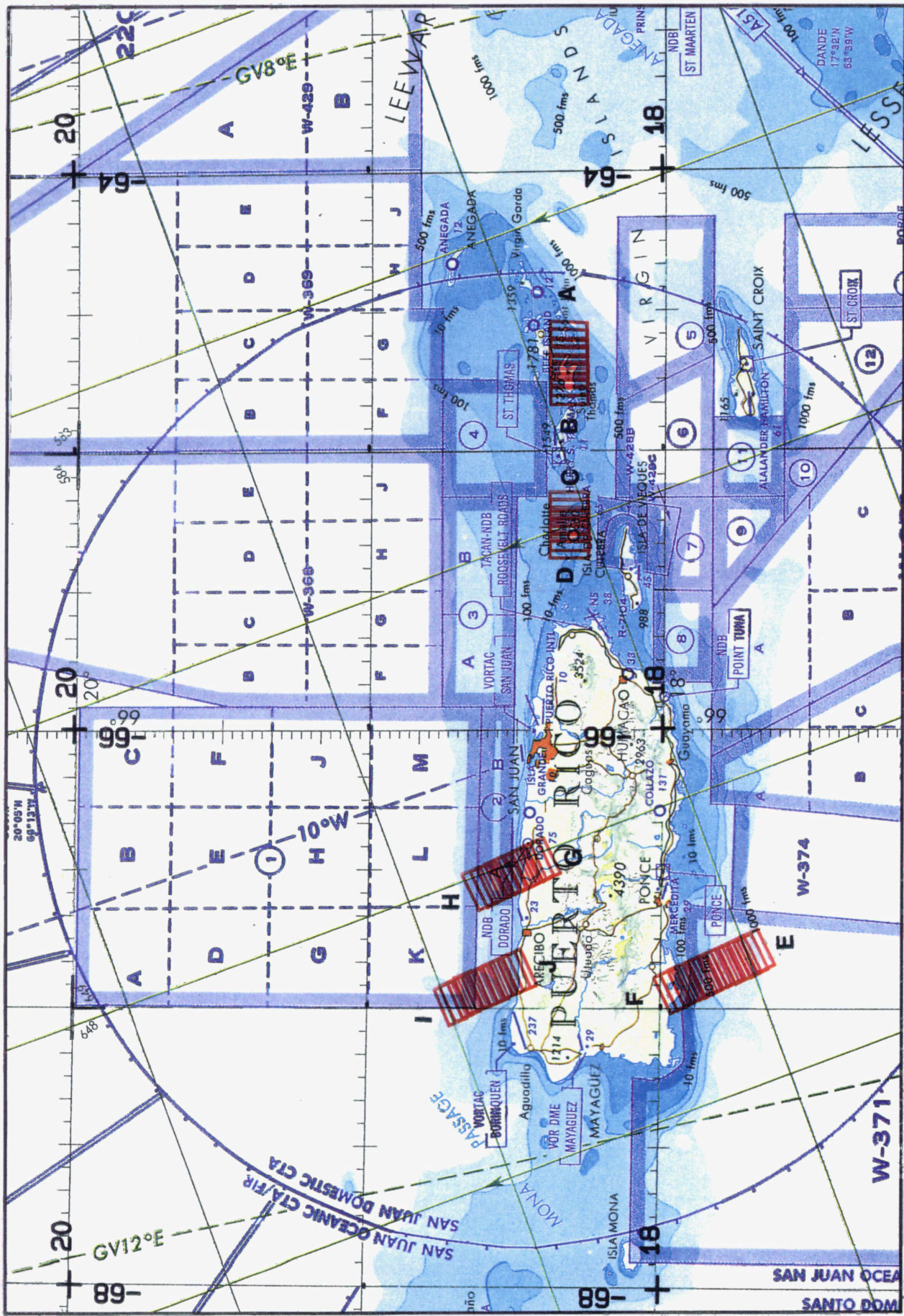




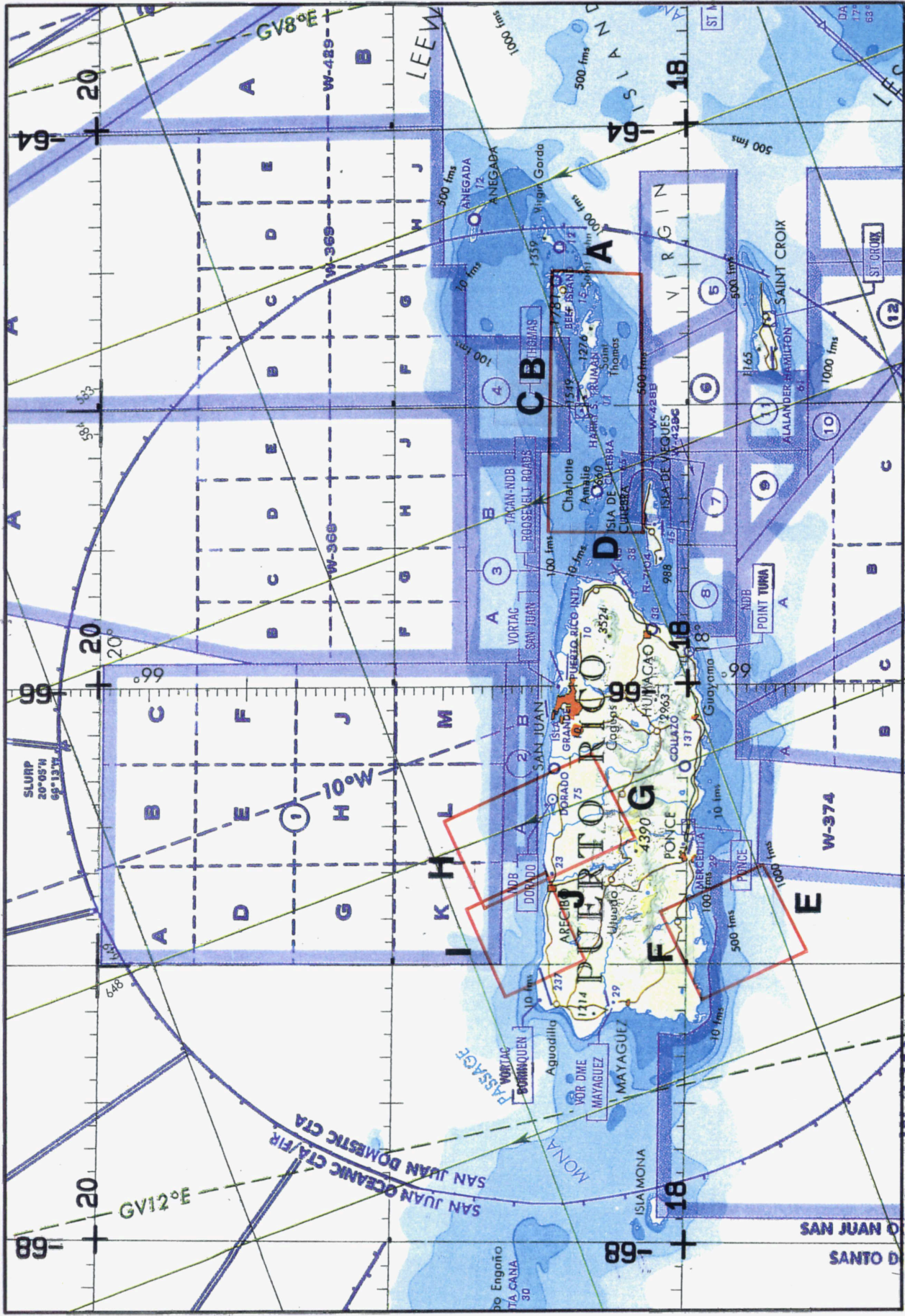
FLIGHT 94-016 7 DECEMBER 1993 A/C 708 AOCI TINS DUAL RC-10 DUAL HR-732



FLIGHT 94-016 07 DECEMBER 1993 A/C 708 6° RC-10 JNC 47



FLIGHT 94-016 07 DECEMBER 1993 A/C 708 12° RC-10 / DUAL HR-732 / TMS JNC 47



FLIGHT 94-016 07 DECEMBER 1993 A/C 708 AOCI JNC 47