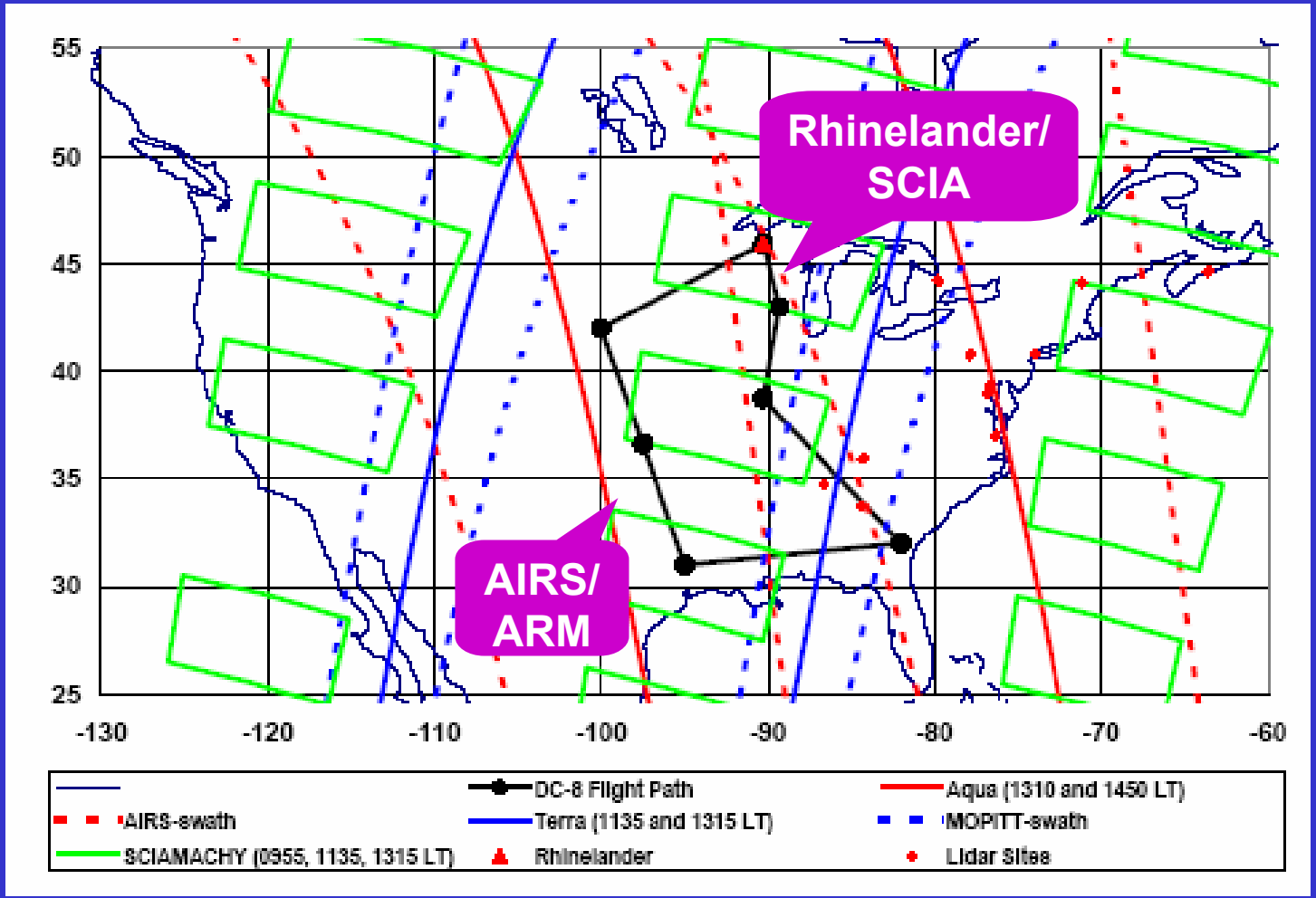
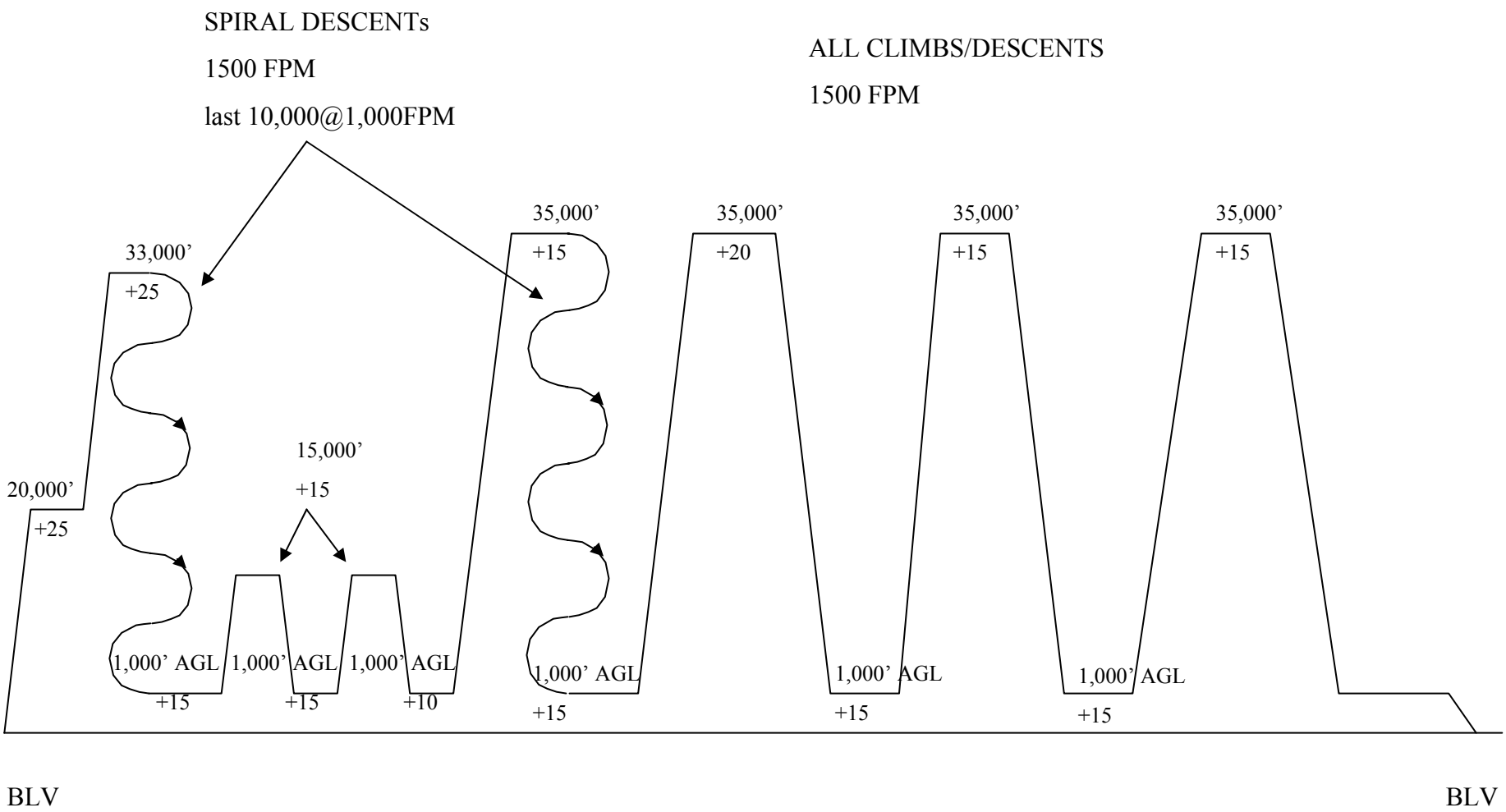
INTEX-7 flight plan July 12, 2004



Objectives:

1. Boundary layer mapping of south-central U.S. (natural gas/pollution?)
2. Aged convective/lightning outflow over southeast U.S.
3. Validation of CO_2 column/Rhinelander, SCIAMACHY, AIRS

INTEX July 12 NASA 817



TYPE ACFT	CALL SIGN	DATE	FROM	TO	PLND TO	ACT TO	PILOT	COPILOT
DC-8	NASA817		SCOTT AFB MID N 38 32.7 W089 50.1	SCOTT AFB MID N 38 32.7 W089 50.1	10:11			

TOT DIST	TOT TIME	FUEL REQ		NAVIGATOR	ENGINEER
2792.9	09+14	95170			

TP DTD#	Fix/Point Description	FREQ	Latitude Longitude	Alt Wind	TAS GS	TC MC	LEG DIST DIST REM	LEG TIME TIME REM	ETA	RETA	ATA	REMARKS
1	KBLV/A SCOTT AFB MID		N 38 32.7 W089 50.1	459M		136 137	5.0 2788	00+02 09+12	10:11			
2	CAP/R CAPITAL	074X 112.70	N 39 53.5 W089 37.5	20000M	400 400	004 005	84.6 2703	00+14 08+58	10:27			
3	BDF/R BRADFORD	094X 114.70	N 41 09.6 W089 35.3	20000M	400 400	001 002	76.0 2627	00+11 08+46	10:38			
4	MSN/R MADISON	023X 108.60	N 43 08.7 W089 20.4	20000M	420 420	005 007	119.6 2508	00+17 08+29	10:55			
5	.PT 05 IWD/R192038	025X 108.80	N 45 55.0 W090 20.0	20000M	420 420	346 347	171.7 2336	00+25 08+05	11:20			SPIRAL DOWN
	.delay	025X 108.80	N 45 55.0 W090 20.0	20000M	330 330	346 347	0.0 2336	00+30 07+35	11:50			
6	DWN/R DARWIN	027X 109.00	N 45 05.2 W094 27.2	20000M	330 330	254 253	180.8 2155	00+33 07+02	12:23			
7	FSD/R SIOUX FALLS	097X 115.00	N 43 39.0 W096 46.9	20000M	330 330	229 226	132.2 2023	00+24 06+38	12:47			
8	ONL/R O'NEILL	086X 113.90	N 42 28.2 W098 41.2	20000M	330 330	230 224	109.7 1913	00+20 06+18	13:07			
9	CUZ/E328034	019X 108.20	N 42 00.0 W100 00.0	20000M	330 330	244 238	65.0 1848	00+12 06+06	13:19			
10	CUZ/E CUSTER COUNTY	019X 108.20	N 41 29.0 W099 41.3	20000M	330 330	156 149	34.0 1814	00+06 06+00	13:25			
11	HYS/R HAYS	041X 110.40	N 38 50.9 W099 16.6	20000M	330 330	173 167	159.2 1655	00+29 05+31	13:54			
12	PTT/N PRATT	356.00	N 37 43.4 W098 44.8	20000M	330 330	160 153	71.9 1583	00+13 05+18	14:07			
13	.CART SITE PER/R236019	079X 113.20	N 36 36.0 W097 30.0	20000M	330 330	138 133	90.1 1493	00+16 05+01	14:23			SPIRAL DOWN DRIFT EAST

TP	Fix/Point	FREQ	Latitude	Alt	TAS	TC	LEG DIST	LEG TIME	ETA	RETA	ATA	REMARKS

DTD#	Description		Longitude	Wind	GS	MC	DIST REM	TIME REM				
	.delay	079X 113.20	N 36 36.0 W097 30.0	20000M	330 330	138 133	0.0 1493	00+30 04+31	14:53			
14	SWO/E STILLWATER	021X 108.40	N 36 13.5 W097 04.9	20000M	330 330	138 133	30.3 1463	00+06 04+26	14:59			FINISH SPIRAL BELOW 18,000
15	TYR/E TYLER	089X 114.20	N 32 21.4 W095 24.2	20000M	330 330	160 156	246.2 1217	00+45 03+41	15:44			
16	LFK/R LUFKIN	058X 112.10	N 31 09.7 W094 43.0	20000M	330 330	154 150	79.6 1137	00+14 03+27	15:58			
17	MMY/N MANY	 272.00	N 31 34.3 W093 32.5	20000M	330 330	068 065	65.2 1072	00+12 03+15	16:10			
18	HEZ/E NATCHEZ	037X 110.00	N 31 37.1 W091 18.0	20000M	330 330	089 086	114.9 957	00+21 02+54	16:31			
19	LBY/R EATON	043X 110.60	N 31 25.1 W089 20.3	20000M	330 330	097 096	101.3 856	00+18 02+36	16:49			
20	MVC/R MONROEVILLE	115X 116.80	N 31 27.6 W087 21.2	20000M	330 330	089 089	101.9 754	00+19 02+17	17:08			
21	EUF/R EUFAULA	029X 109.20	N 31 57.0 W085 07.8	20000M	330 330	076 078	117.5 636	00+21 01+56	17:29			
22	VNA/R VIENNA	112X 116.50	N 32 12.8 W083 29.8	20000M	330 330	079 083	84.7 552	00+15 01+40	17:44			
23	DBN/R DUBLIN	078X 113.10	N 32 33.6 W082 50.0	20000M	330 330	058 063	39.6 512	00+07 01+33	17:52			
24	AHN/R ATHENS	033X 109.60	N 33 56.9 W083 19.5	20000M	330 330	343 348	86.7 425	00+16 01+17	18:07			
25	HCH/R HINCH MOUNTAI	123X 117.60	N 35 46.9 W084 58.7	20000M	330 330	323 328	136.8 288	00+25 +52	18:32			
26	CCT/R CENTRAL CITY	035X 109.80	N 37 22.9 W087 15.8	20000M	330 330	311 314	146.3 142	00+27 +26	18:59			
27	ENL/R CENTRALIA	097X 115.00	N 38 25.2 W089 09.5	20000M	330 330	305 306	109.4 33	00+20 +06	19:19			
28	KBLV/A SCOTT AFB MID		N 38 32.7 W089 50.1	20000M	330 330	283 284	32.7 0	00+06 +00	19:25			

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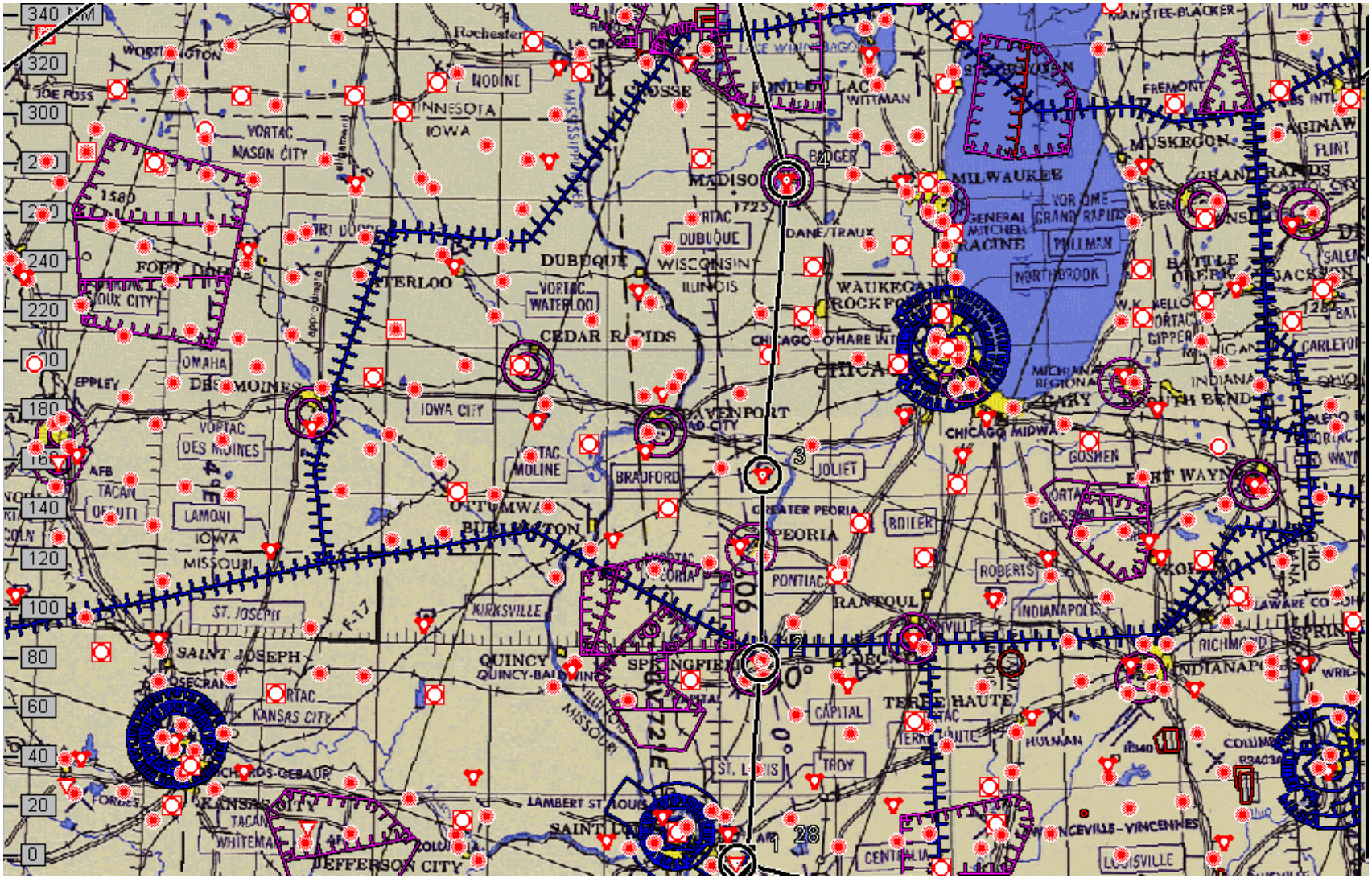
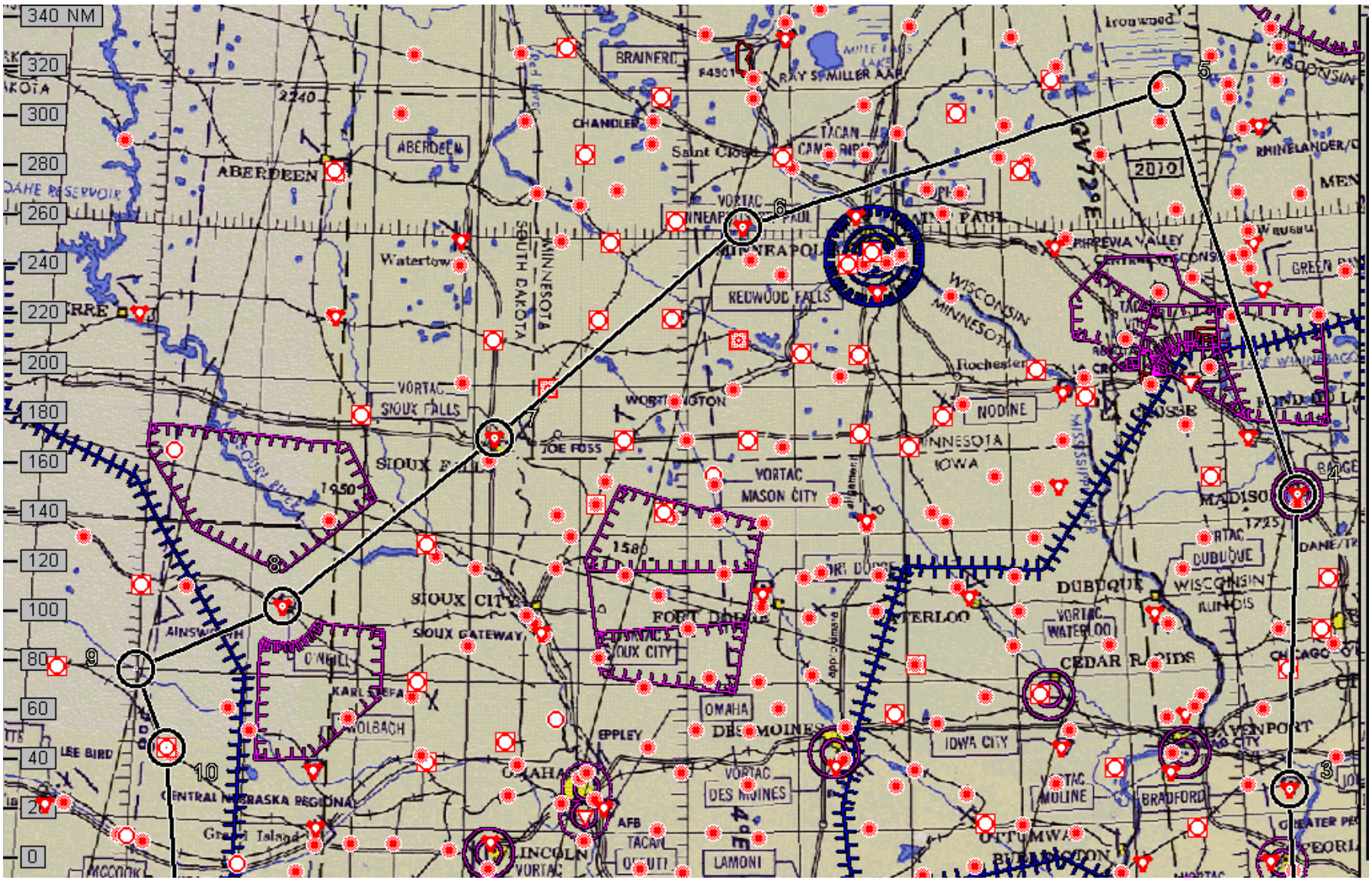


INTEX July 12 NASA 817



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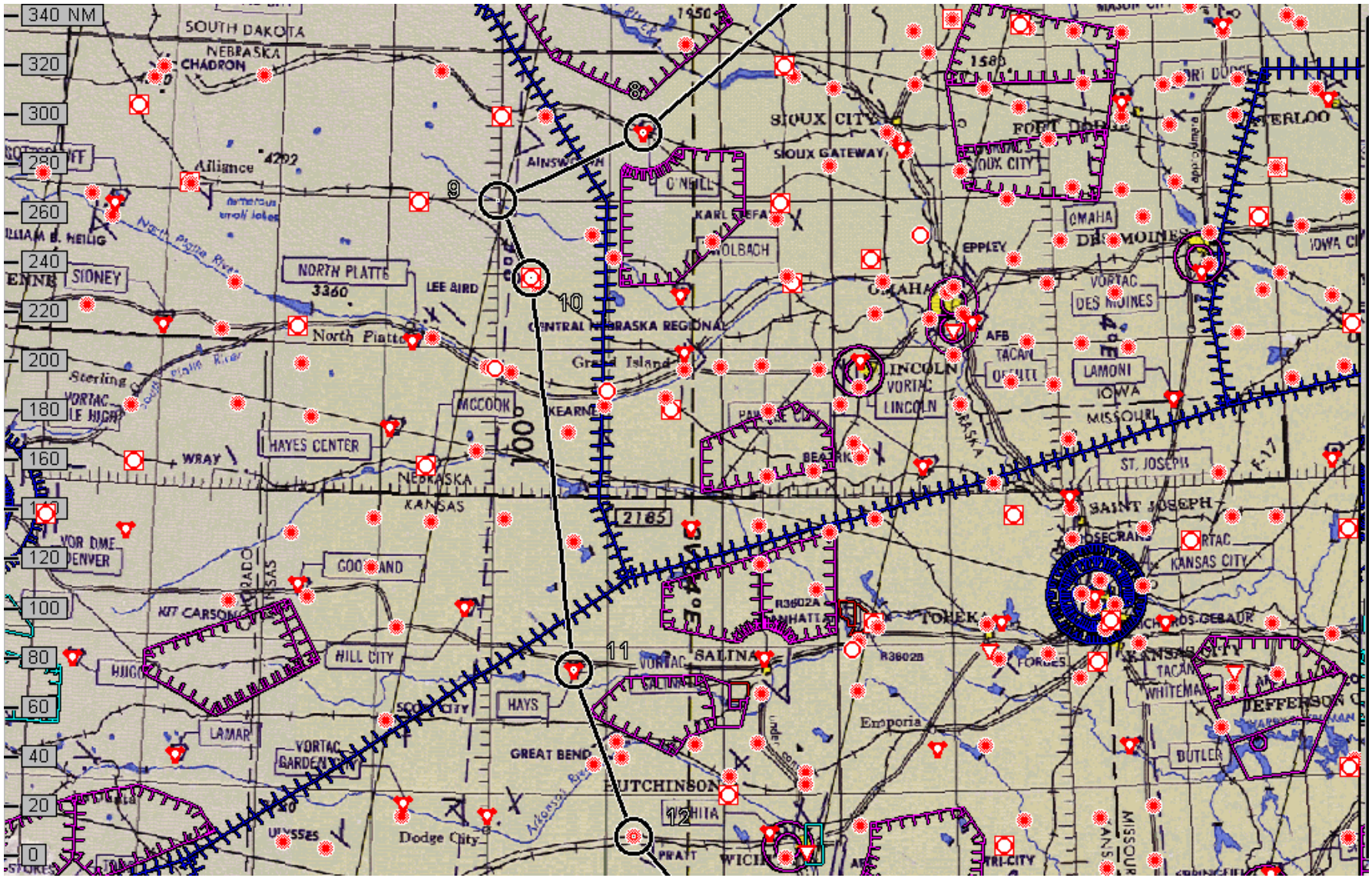

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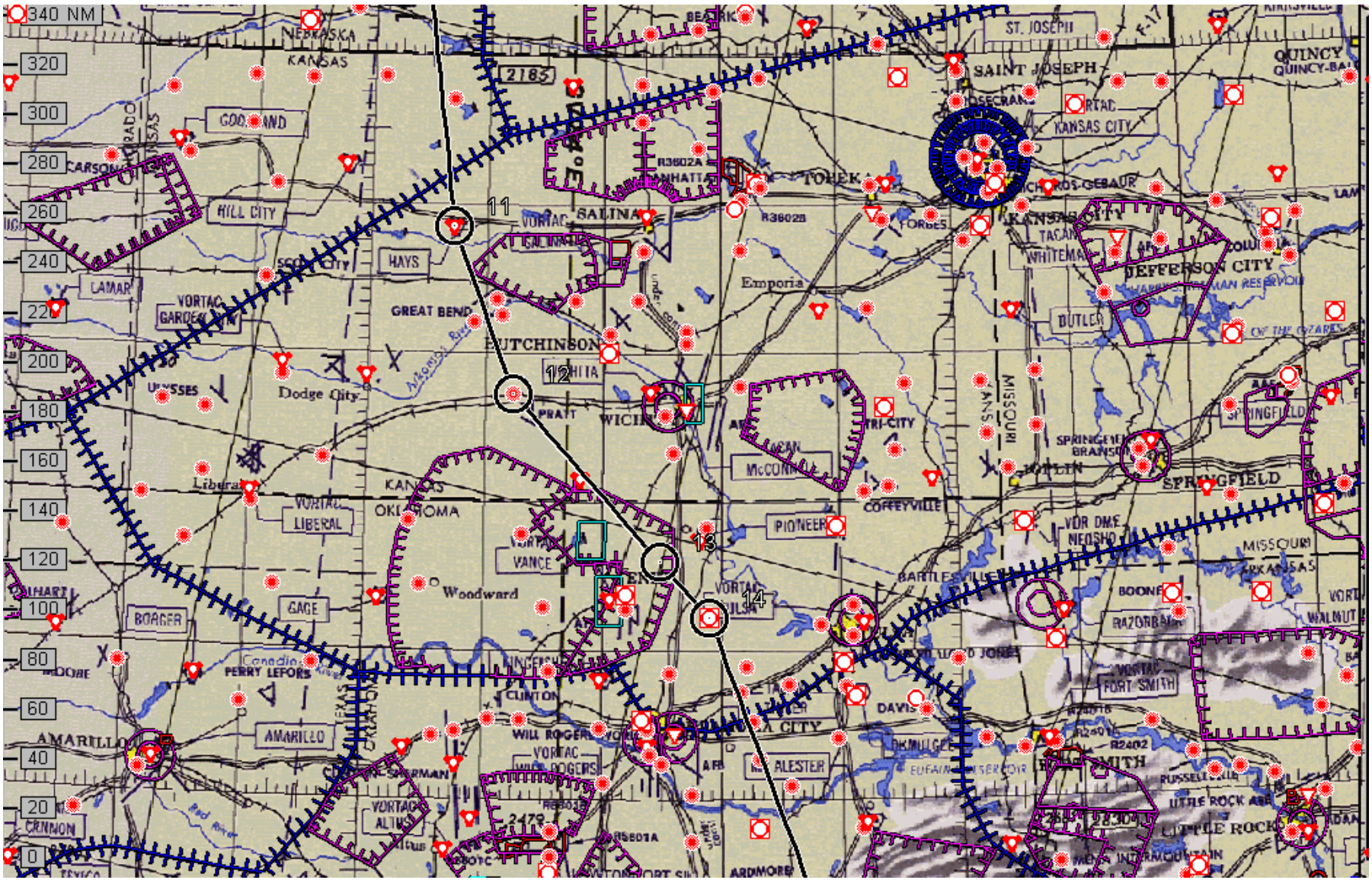

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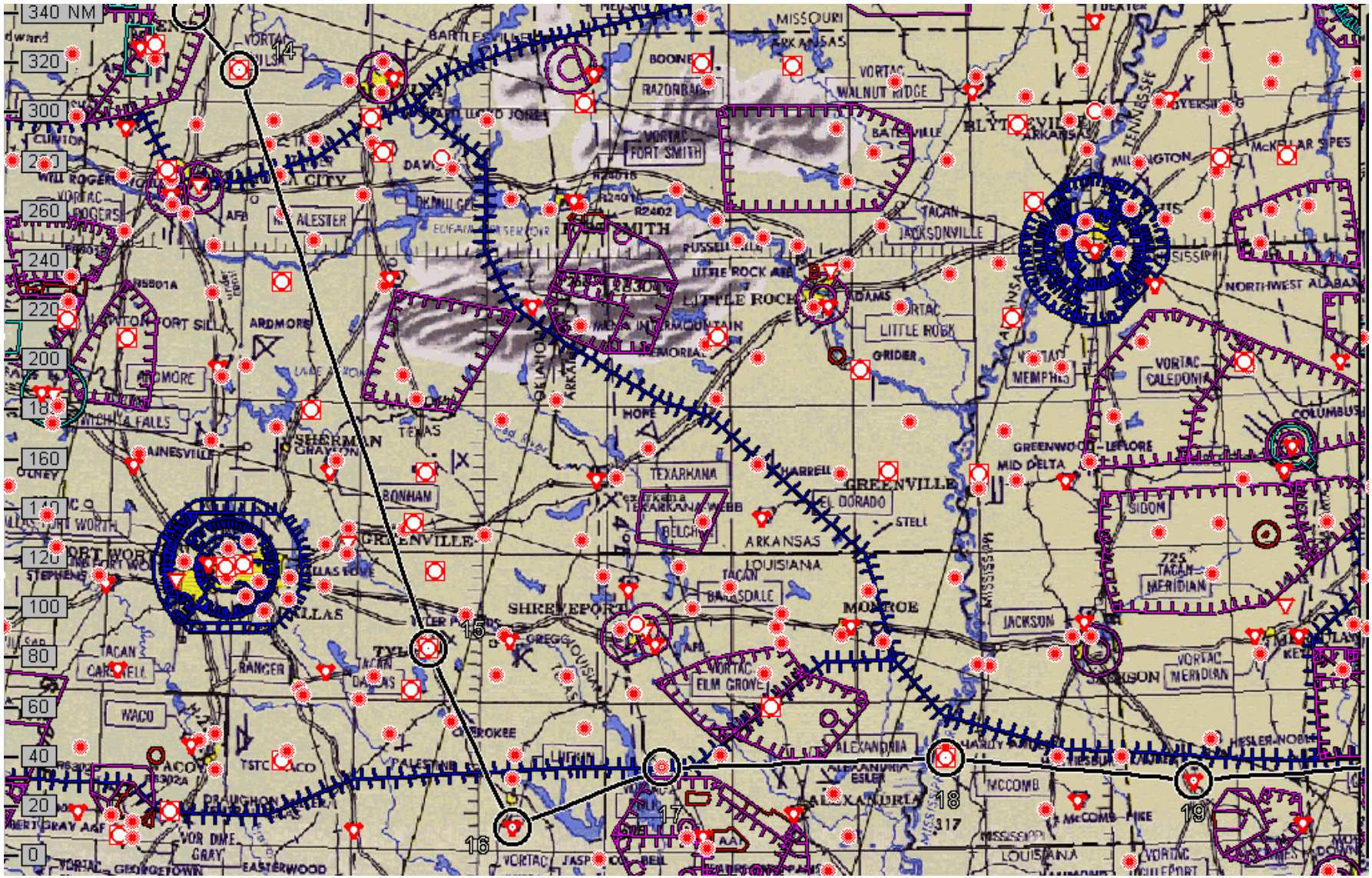

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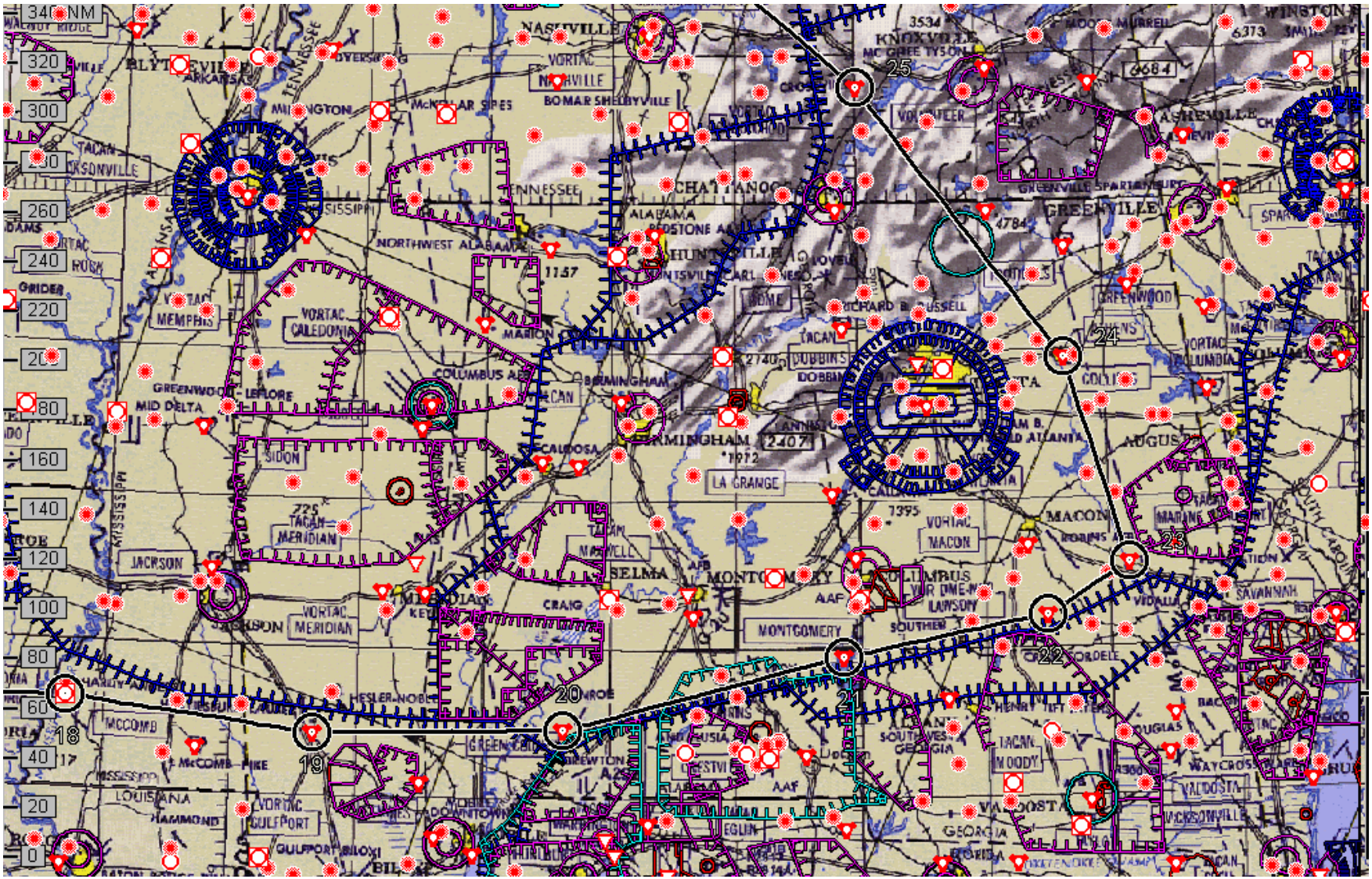
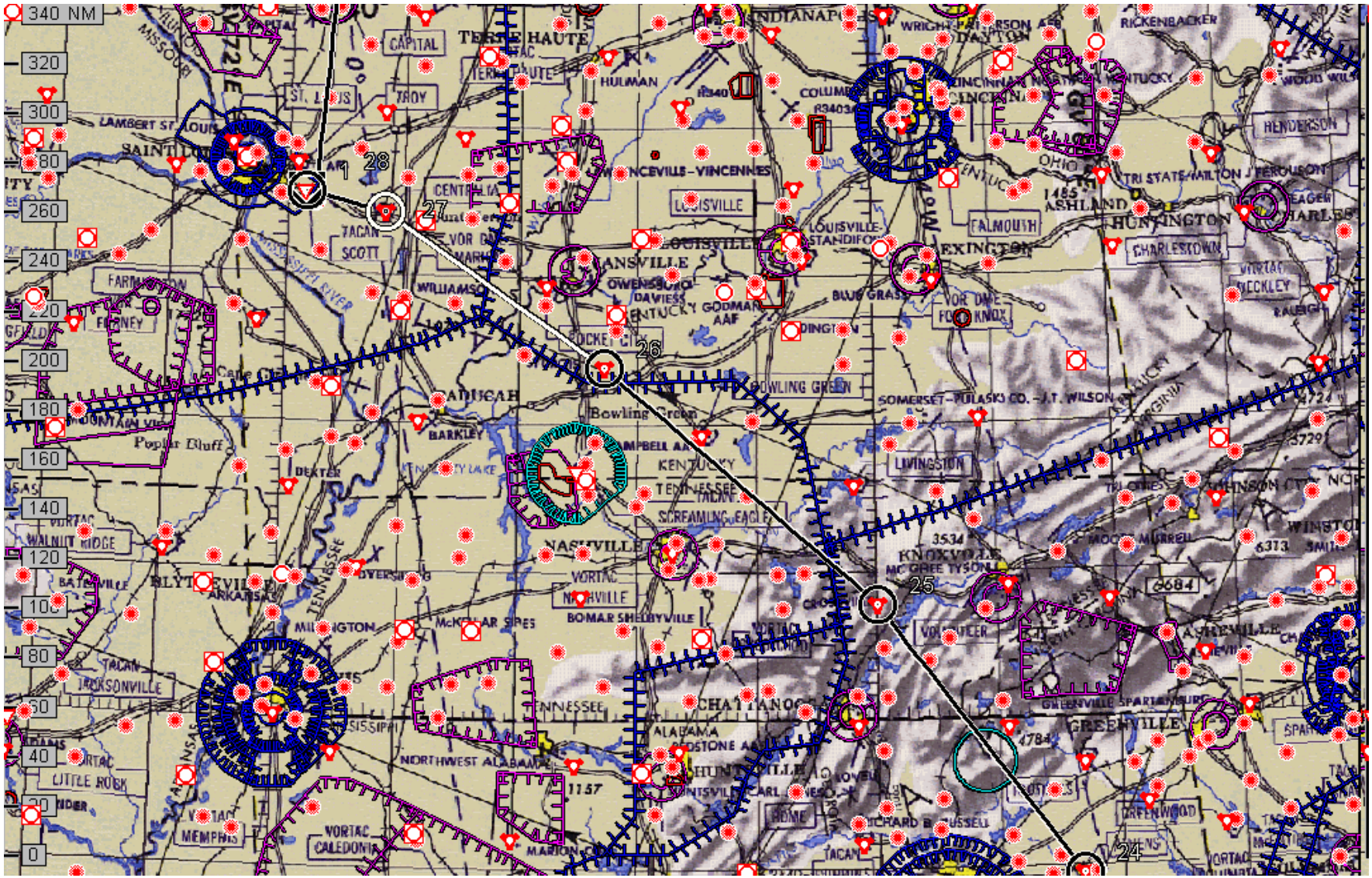
INTEX July 12 NASA 817