

**AIRCRAFT  
ACCIDENT INVESTIGATION BOARD  
REPORT**

**US ARMY UH-60  
BLACK HAWK HELICOPTERS  
87-26000 AND 88-26060**

**VOLUME 18**

**TABS W thru Z**

**AIRCRAFT  
ACCIDENT INVESTIGATION BOARD  
REPORT**

**COPY**

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**AFR 110-14 AIRCRAFT ACCIDENT BOARD  
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**TAB W**

**WEATHER OBSERVATIONS**

**W-1 AWS Form 10b, Surface Weather Observation, Zakhu**

**W-2 DD Form 175-1, Flight Weather Briefing**

**W-3 USAFE Form 0-273, Mission Weather Flimsy**

**W-1**

SURFACE WEATHER OBSERVATIONS (METAR/SPECI)											LATITUDE	LONGITUDE	STATION ELEVATION (H <sub>p</sub> ) Feet (MSL)	TIME CONVERSION (GMT to + LST)	MAG to TRUE + Deg - Deg	DAY (LST)	MONTH	YEAR 19	STATION (or grid coord) & STATE or COUNTRY		
T Y P E (1)	TIME (2)	WIND			PREVAILING VISIBILITY		WEATHER AND OBSTRUCTIONS TO VISION		SKY CONDITION (3)	TEMP (°C) (7)	DEW- POINT (°C) (8)	ALSTG (inches) (12)	REMARKS AND SUPPLEMENTAL CODED DATA All times GMT. Desired order of entry: ceil- ing height, other remarks elaborating on preced- ing coded data, coded additive data groups (if spec), radiosonde data, runway cond, wea mod.) (13)	STATION PRESSURE (inches) (17)	TOTAL SKY COVER (21)	OBS INIT (15)					
		Dirctn (true) (9)	Speed knots (10)	Max Wind knots (11)	Miles (4A)	Meters (4B)	Local (5A)	Longline (5B)													
27	0425	SE	LG		9999			BKN000	45.9												
28	0430	SE	VRB		9999	RA-		SCT/BKN100	11.2	966.0											
29	0430	SE	VRB		9999	RA-		SCT/BKN100			966.5										
30	0530	VAB	03		9999	BCFG		UNK	M 56	M 56		(Est. low)									
31	0540	VRB	03		9999			SCT100 SCT200	16.06		968										
32	0432	LG	TD	NW	9999			RA-100	15.08		966.0	14.7/1/15.1/0									
33	0430	VAB	05		8000	BR		OVC 100	6.3	4.4	963.4										
34	0435	000	00		8000	BR		OVC 100	19.0	15.0	965.0	MIN 14.4 MAX 19.7									
35	0405	VAB	03		4000	BR		BKN030 OVC 100	5.7	5.1	956.0	4.6 5.9									
36	0410	VAB	02		4000	RA BR		OVC 100	0.8	0.6	957.0										
37	0440	VAB	01		8000	BR		SKC	11.0	8.0	964.0										
38	0355	VAB	00		9999			SKC	22.0		969.6										
39	0345	VAB	3.1		9999			SKC	18.0	9.8	969.0	14.4/1/22.2/1									
40	0345	VAB	3		9999			SKC	17.0		964										
41	0345	VAB	02		9000	BR		OVC000	21.0	16.0	M										
42	0410	VAB	03		9999			SKC	16.0	M	963	61									
43	0330	VAB	02		9999			SKC	16.0	13.0	2969	952									
44	0330	VAB	03		9999			SKC	16.0	12.0	2967										
45	0335	VAB	02		9999			SKC	6.0	M		TWOS INOP NO HZ YDAY									
46	0340	VAB	1.5		9999			SKC	6.0	M	M	PATT INOP NO HZ YDAY									
47	0345	VAB	05		9999			SKC	20.0	M	M										
48	0390	VAB	02		9999			SKC	17.0	09.0	3016	17.2/0/17.2	957.6								
49	0355	VAB	02		9000	BR		BKN040	18.0	11.0	952		952								

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Date: 2/2/84  
 Evidence Custodian: [Signature]  
 U.S. ARMY, 116685 Capt. USAF MSC



**TAB W**

**WEATHER OBSERVATIONS**

**W-1 AWS Form 10b, Surface Weather Observation, Zaku**

**W-2 DD Form 175-1, Flight Weather Briefing**

**W-3 USAFE Form 0-273, Mission Weather Flimsy**

**W-1**

**W-2**

# FLIGHT WEATHER BRIEFING

## PART I - MISSION/TAKEOFF DATA

1. DATE (YYMMDD) <b>940414</b>	2. ACFT TYPE/NO. <b>UH60/ED1</b>	3. DEP PT/ETD <b>LTCC/0500</b>	4. RUNWAY TEMP °F/C	5. DEWPOINT °F/C	6. TEMP DEV °C	7. PRESSURE ALT FT	8. DENSITY ALT FT
9. SFC WIND M <b>31 1005T</b>		11. LOCAL WEATHER WARNING/ADVISORY			12. RCR		
13. REMARKS/TAKEOFF ALTN FCST							

## PART II - ENROUTE DATA

4. FLT LEVEL <b>075</b>		15. FLT LEVEL WINDS/TEMP <b>010 110 74</b>						
6. CLOUDS AT FLT LEVEL <b>NONE</b>			17. MINIMUM VISIBILITY AT FLT LEVEL OUTSIDE CLOUDS <b>9999</b>				MILES DUE TO	
YES	NO	IN AND OUT	SMOKE	DUST	HAZE	FOG	PRECIPITATION	NO OBSTRUCTION
8. MINIMUM CEILING FT AGL <b>NONE</b>		LOCATION	19. MAXIMUM CLOUDS TOPS FT MSL <b>NONE</b>		LOCATION	20. MINIMUM FREEZING LEVEL FT MSL		LOCATION
21. THUNDERSTORMS		22. TURBULENCE			23. ICING		24. PRECIPITATION	
IWA/WW NO. <b>NONE</b>		CAT ADVISORY			Z		NONE <input checked="" type="checkbox"/>	
NONE	AREA	LINE	NONE <input checked="" type="checkbox"/>	IN CLEAR	IN CLOUD	RIME	MIXED	CLEAR
ISOLATED 1-2%		LIGHT		TRACE		LT		
FEW 3-15%		MOD		LIGHT		MOD		
SCATTERED 16-45%		SVR		MOD		HVY		
NUMEROUS - MORE THAN 45%		EXTREME		SVR		SHWRS		
48. SEVERE TURBULENCE & ICING, HEAVY PRECIPITATION, LIGHTNING & WIND SHEAR EXPECTED IN AND NEAR THUNDERSTORMS.		LEVELS		LEVELS		FRZG		
LOCATION		LOCATION		LOCATION		LOCATION		

## PART III - TERMINAL FORECASTS

25. AIRDROME	26. CLOUD LAYERS	27. VSBY/WEA	28. SFC WIND	29. ALTIMETER	30. VALID TIME
DEST/ALTN <b>ZAKHD</b>	<b>clear</b>	<b>9999</b>	<b>5.3 5+ V+5</b>	<b>2975</b> INS	Z TO Z
DEST/ALTN				INS	Z TO Z
DEST/ALTN <b>TADR</b>	<b>clear</b>	<b>9999</b>	<b>V+5</b>	<b>2975</b> INS	Z TO Z
DEST/ALTN				INS	Z TO Z
DEST/ALTN <b>LTCC</b>	<b>clear</b>	<b>9999</b>	<b>310/08</b>	<b>2990</b> INS	Z TO Z
DEST/ALTN				INS	Z TO Z
DEST/ALTN				INS	Z TO Z
DEST/ALTN				INS	Z TO Z

## PART IV - COMMENTS/REMARKS

BRIEFED ON LATEST RCR FOR DESTN AND ALTN	YES	NOT AVAILABLE	32. REQUEST PIREP AT
--	-----	---------------	----------------------

REMARKS  
*No changes*

### CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

*15 May 94*  
Date

*W. Harris*  
WILLIAM L. HARRIS, Capt, USAF, MSC  
Evidence Custodian, Incirlik Air Base, Turkey

## PART V - BRIEFING RECORD

WEA BRIEFED <b>0320</b>	35. FLIMSY BRIEFING NO. <b>2</b>	36. FORECASTER'S SIGNATURE OR INITIALS	
VOID TIME <b>0450</b>	38. EXTENDED TO <b>0600</b>	39. WEA REBRIEFED AT <b>0450</b>	41. NAME OF PERSON RECEIVING BRIEFING <b>MCKENNA</b>
		40. FORECASTER'S INIT <b>JR</b>	<b>15</b>

**TAB W**

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**W-1**

**W-2**

**W-3**

MISSION WEATHER (FLIMS)		1. VT. 032-152	2. DATE 14 APR 94	3. FCST NO. 01	4. INITIALS JH
SVR TURB/ICG, HAIL, LIGHTNING, POLC > 80%, & WIND SHEAR ASSOC. W/ YSTMS					
5. THUNDERSTORMS		6. TURBULENCE		7. ICING	
TOPS COVERAGE: 350 F3 ISOL		LGT: A MDT: A SVR: A		LGT: RIM CLR MXD MOT: U U U SVR: U U U	
8. LOCAL WX ADVISORIES/WARNINGS					
NONE					
9. INCIRLIK AIRFIELD FORECASTS					
LOCATION	CLOUD LAYERS	VSBY/WX	WINDS	ALSTC	
INCIRLIK AB (288) LTAG/KQDG	SKC	9999	0300S	2985	
MAX T: 7300			2100L		
PA: 7.3	BY 10Z				
Air refueling and AWACS cloud bases and heights are AGL					
AIR REFUELING AREA		IC:	FL160		
R021	SKC	OC: 9999	32015		
R022			FL250		
AWACS			30020		
R023		IC:	FL300		
		OC: 9999	28000		
CONTRAILS MOD: 200-300		HVV: ABV 300			
10. EN ROUTE WINDS					
	5,000 FT	10,000 FT	20,000 FT	30,000 FT	
S/CEN TURKEY	16010/+16	23010/+4	32015/-16	26025/-44	
S.E. TURKEY	05010/+12	01010/+2	27010/-15	27030/-43	
11. NORTHERN IRAQ LOW-LEVEL WINDS AND TEMPERATURES					
WINDS				TEMP	
005: 13010	010: 13010	020: 13010	010: +21	C	
030: -13015	050: 14015	070: 14020	020: +19	C	
WX PMSV Radio is limited - use Incirlik Global Airways: HF = <del>257.75</del> UHF = <del>257.75</del>					

USAF FORM O-273, OCT 92

(OVER)

**CERTIFICATE** *Front & Back Redundant*

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

WILLIAM L. HARRIS, Capt, USAF, MSC  
 Evidence Custodian, Incirlik Air Base, Turkey

Date: 9 May 94

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12. IL-1196 SOLAR/LUNAR DATA

ILLUMINATION 12 %      SUNRISE: 14, 0236z      MOONRISE: 14, 0454z      NVG START: BLO, MIN 8z  
 SUNSET: 14, 1540z      MOONSET: 14, 1854z      NVG STOP: BLO, MIN 8z

13. ALTERNATE AIRFIELD FORECASTS

LOCATION	CLOUD LAYERS	VSBY/MX	WINDS	ALSTG
DIYAR./BATMAN (7254/1019)LTCC/LTCJ	SKC	9999	VRB05	29.90 <sup>1013</sup>
MAX T: +26 / +26 PA: +2225 / +1840				
ERHAC (2827) LTAT	SCT250	9999	VRB05	29.85 <sup>1011</sup>
MAX T: +26 PA: +2900				
ZAHKU (1500)	SKC	9999	VRB05	29.75 <sup>1007</sup>
MAX T: +25 PA: +1660				
EAST A.O.R. (2500)	SKC	9999	VRB05	29.75 <sup>1007</sup>
MAX T: +24 PA: +2160				
WEST A.O.R. (1000)	SKC	9999	VRB05	29.75 <sup>1007</sup>
MAX T: +26 PA: +1160				
ADANA (86) LTAF	SKC	8000 HZ	VRB05	29.92 <sup>1013</sup>
MAX T: +32 PA: +660				
KONYA/RANGE (3300) LTAN	SCT 040 / 600	9999	VRB05	29.94 <sup>1014</sup>
MAX T: +27 PA: +3370				
LT 013 1500-2000	SCT 040 / 600	9999	—	—
PRECIP:      /      /      /				
WX:      /      /      /				
MOIST:      /      /      /				

14. INCIRLIK SOLAR/LUNAR DATA

ILLUMINATION 12 %      SUNRISE: 14, 0206z      MOONRISE: 14, 0454z  
 SUNSET: 14, 1412z      MOONSET: 14, 1728z

15. TAKEOFF AND LANDING INFORMATION - INCIRLIK AS

TIMEZ	TIME C	WINDS	ALSTG	PA (FT)	TIMEZ	TIME C	WINDS	ALSTG	PA (FT)
03	113	03005	29.85	+300	10	+31	21006	29.85	+300
04	115				11	+32			
05	116				12	+31			
06	119				13	+31			
07	123		29.86	+290	14	+30			
08	125				15	+28			
09	129								

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**AFR 110-14 AIRCRAFT ACCIDENT BOARD  
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## MEDICAL STATEMENT

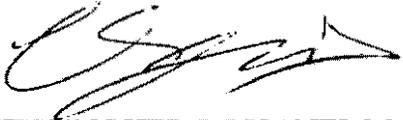
1. The Armed Forces Institute of Pathology identified the remains of five Kurdish nationals. Presumptively, they were the remains of: Mr. Salid Said, Mr. Ahmad Mohammad, Mr. Bader Mikho, Mr. Ghandi Hussein and Mr. Abdulsatur Arab. A complete autopsy including microscopic evaluation revealed one individual with a kidney stone, another with several small gallstones, and another with severe scoliosis (abnormal curvature of the spine) otherwise there was no significant pre-existing disease. The cause of death for all five individuals was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports. The above abnormalities were incidental findings that did not impact this accident.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

MEDICAL STATEMENT

1. The Armed Forces Institute of Pathology positively identified the remains of Col Hikmet Alp (TU). A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. The Armed Forces Institute of Pathology positively identified the remains of SSgt Paul N. Barclay. A complete autopsy including microscopic evaluation revealed 60% narrowing of one of his coronary arteries without evidence of heart attack; otherwise, no pre-existing disease was noted. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports. The coronary artery narrowing was an incidental finding that did not impact this accident.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

## MEDICAL STATEMENT

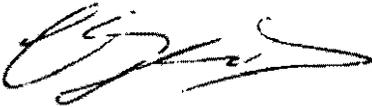
1. A review of the medical records of Spec Cornelius A. Bass showed a flight physical on 1 FEB 94. His distant visual acuity was 20/25 in the right eye and 20/20 in the left eye without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 20 MAY 93 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of Spec Bass. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**MEDICAL STATEMENT**

1. The Armed Forces Institute of Pathology positively identified the remains of Lt Ceyhun Civas (TU). A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

## MEDICAL STATEMENT

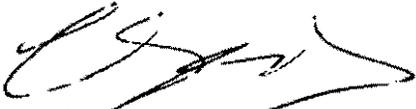
1. A review of the medical records of Spec Jeffrey C. Colbert showed a flight physical on 5 FEB 93. His distant visual acuity was 20/40 in both eyes which corrected to 20/20 with glasses. His near visual acuity was 20/20 in both eyes without correction. His hearing revealed mild high- frequency hearing loss in both ears. He was qualified for flying duties with glasses. A review of his dental records indicated an exam on 9 FEB 93 without significant problems.
2. The Armed Forces Institute of Pathology positively identified the remains of Spec Colbert. A complete autopsy including microscopic evaluation revealed no pre-existing disease. Cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**MEDICAL STATEMENT**

1. The Armed Forces Institute of Pathology positively identified the remains of Lt Col Guy Demetz (FR). A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. A review of the medical records of PFC Mark A. Ellner showed a flight physical on 3 DEC 93. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 1 DEC 93 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of PFC Ellner. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. A review of the medical records of W01 John W. Garrett, Jr. showed a flight physical on 10 MAY 93. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam in MAR 94 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of W01 Garrett. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

MEDICAL STATEMENT

1. The Armed Forces Institute of Pathology positively identified the remains of Lt M. Barlas Gultepe (TU) A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. A review of the medical records of CW02 Michael A. Hall showed a flight physical on 26 JUL 93. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 12 JUL 93 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of CW02 Hall. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**MEDICAL STATEMENT**

1. The Armed Forces Institute of Pathology positively identified the remains of SFC Benjamin T. Hodge. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

## MEDICAL STATEMENT

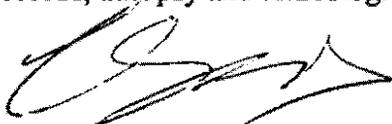
1. A review of the medical records of Capt Patrick M. McKenna showed a flight physical on 12 JAN 94. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 11 JAN 94 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of Capt McKenna. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

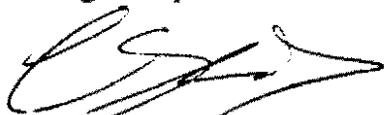
1. A review of the medical records of W01 Erik S. Mounsey showed a flight physical on 12 MAY 93. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing revealed mild high-frequency hearing loss in both ears. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 8 MAR 94 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of W01 Mounsey. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**MEDICAL STATEMENT**

1. The Armed Forces Institute of Pathology positively identified the remains of Col Richard A. Mulhern. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

MEDICAL STATEMENT

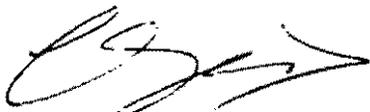
1. The Armed Forces Institute of Pathology positively identified the remains of 1 Lt Laura A. Piper. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. A review of the medical records of Spec Michael S. Robinson showed a flight physical on 17 SEP 93. His distant and near visual acuity was 20/20 in both eyes without correction. His hearing test was normal. He was qualified for flying duties without restriction. A review of his dental records indicated an exam on 28 FEB 94 without difficulties.
2. The Armed Forces Institute of Pathology positively identified the remains of Spec Robinson. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
3. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
4. I see no evidence of compromising pre-existent mental or physical defect from review of records, autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. The Armed Forces Institute of Pathology positively identified the remains of SSgt Ricky L. Robinson. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**MEDICAL STATEMENT**

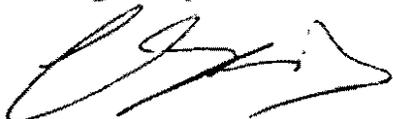
1. The Armed Forces Institute of Pathology positively identified the remains of Barbara L. Schell (USA). A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



**CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS**  
Flight Surgeon Board Member

## MEDICAL STATEMENT

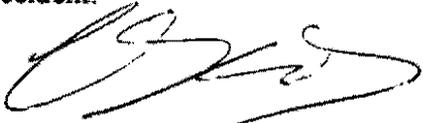
1. The Armed Forces Institute of Pathology positively identified the remains of Maj Harry C. Shapland (UK) A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

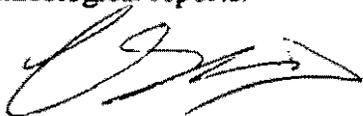
1. The Armed Forces Institute of Pathology positively identified the remains of Lt Col Jonathan C. Swann (UK) A complete autopsy including microscopic evaluation revealed moderate coronary artery obstruction due to cholesterol without evidence of heart attack. He also had three large gallstones. Finally, he had some cholesterol plaques in his abdominal aorta. There were no acute conditions found on autopsy. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports. The above abnormalities were incidental findings that did not impact this accident.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

## MEDICAL STATEMENT

1. The Armed Forces Institute of Pathology positively identified the remains of Col Jerald L. Thompson. A complete autopsy including microscopic evaluation revealed no pre-existing disease. The cause of death was multiple blunt force injuries.
2. Urine toxicological screen for drugs and blood alcohol level performed by the Armed Forces Institute of Pathology were negative. Carbon monoxide level was within normal limits.
3. I see no evidence of compromising pre-existent physical defect from review of autopsy and toxicological reports.



CHRISTOPHER J. LISANTI, MAJ, USAF, MC, FS  
Flight Surgeon Board Member

**AFR 110-14 AIRCRAFT ACCIDENT BOARD  
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- AA Regulations and Directives**
- AB Administration and Glossaries**
- AC Other Documents**

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**TAB Y**

**APPOINTMENT DOCUMENTS**

**Y-1 Appointment Letter, 15 April 1994**

**Y-2 Special Order Number M-02, 20 May 1994**

Y-1

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DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS UNITED STATES AIR FORCES IN EUROPE

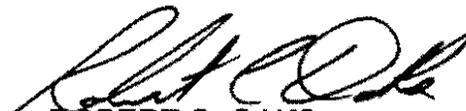
15 April 1994

MEMORANDUM FOR Major General James G. Andrus

FROM: CINCUSAFE/CC  
Unit 3050 Box 1  
APO AE 09094-0501

SUBJECT: AFR 110-14 Aircraft Accident Investigation - ACTION MEMORANDUM

1. By the authority of the Commander in Chief, EUCOM, delegated to me, I hereby appoint you as board president to conduct an investigation into the facts and circumstances surrounding the crash of two US Army Black Hawk helicopters and the possible involvement of US fighter aircraft in the crash of these helicopters in the northern "no-fly zone" of Iraq on 14 April 1994. Other members and associate members of the board will be appointed on orders to assist you in the investigation.
2. Colonels William K. At Lee, Jr., HQ 12 AF/JA, and Charles G. Wilcox, HQ 16AF/JA, Lieutenant Colonels Bryan T. Lawler, HQ 3 AF/JA, and Scott C. Black, OJA, HQ USAREUR, are detailed as legal advisors. Colonel At Lee and Lieutenant Colonel Black are detailed with the concurrence of their commanders. The legal advisors may interview witnesses and carry out other duties as assigned by you.
3. The investigation will be conducted thoroughly and expeditiously in accordance with AFR 110-14 and DODD 6055.7, and will be guided by AFR 120-3. The report will contain a complete factual summary of the evidence and a statement of opinion in accordance with AFR 110-14, Attachment 2. The identity of the military members directly involved in the incident is to be protected to the maximum extent permitted by law. Also, you are to obtain assurances from the associate members of the board, on behalf of their governments, that the identity of the military members directly involved in the incident will be protected.

  
ROBERT C. OAKS  
General, USAF  
Commander in Chief

**TAB Y**

**APPOINTMENT DOCUMENTS**

**Y-1 Appointment Letter, 15 April 1994**

**Y-2 Special Order Number M-02, 20 May 1994**

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C.E.

**DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS UNITED STATES AIR FORCES IN EUROPE  
APO AE 09094**

**SPECIAL ORDER  
M-02**

20 MAY 1994

By the authority of the Commander in Chief, EUCOM, delegated to CINCUSAFE, the following personnel are appointed to conduct an investigation into the facts and circumstances surrounding the crash of two US Army Black Hawk helicopters and the possible involvement of US fighter aircraft in the crash of these helicopters in the northern "no-fly zone" of Iraq on 14 April 1994. The investigation will be conducted in accordance with AFR 110-14 and DODD 6055.7, and will be guided by AFR 120-3. The report will contain a thorough factual summary of the evidence and a statement of opinion in accordance with AFR 110-14, attachment 2. Board members, associate board members, legal advisors, and technical advisors who are not assigned to the United States Air Forces in Europe are detailed with the concurrence of their commanders or with the concurrence of their governments. This confirms my prior verbal and written orders.

BOARD PRESIDENT

MAJ GEN JAMES G. ANDRUS (██████████)

BOARD MEMBERS

COL PATRICK J. BENNETT (██████████)  
COL MICHAEL E. FAIN (██████████)  
LT COL WAYNE I. MUDGE (██████████)  
LT COL RAY B. SHEPHERD (██████████)  
MAJ AARON D. BYAS (██████████)  
MAJ CHRISTOPHER J. LISANTI (██████████)  
MAJ JEFFREY M. SNYDER (██████████)  
1LT GREG A. BROWN (██████████)  
CW5 STEVE A. MELINE (██████████)  
CW4 DOUGLAS C. SOUSA (██████████)

ASSOCIATE BOARD MEMBERS

LT COL CHRISTIAN VELLUZ (FR)  
COL REMZI ARMEN (TU)  
GROUP CAPT BARRY P. DOGGETT (UK)

LEGAL ADVISORS

COL WILLIAM K. AT LEE, JR. (██████████)  
COL CHARLES H. WILCOX II (██████████)  
LT COL SCOTT C. BLACK (██████████)  
LT COL BRYAN T. LAWLER (██████████)

TECHNICAL ADVISORS

LT COL BERTRAM H. PRYOR, JR. (██████████)  
LT COL LENEAR ROYER III (██████████)  
LT COL JOYCE E. TETERS (██████████)  
MAJ JAMES R. LITTLE (██████████)  
1LT KELLY J. SCOTT (██████████)  
CW5 DANIEL W. MEDINA (██████████)  
CW2 JOHN B. HALL (██████████)  
SSGT FREDDIE L. HOLMES (██████████)  
GS-11 CAROLE M. PYLES (██████████)  
GS-11 GERALD D. SILVIUS (██████████)  
MR DAVID BRUMMELL (UK-LEGAL)

  
ROBERT C. OAKS  
General, USAF  
Commander in Chief

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- Z Photographs**
- AA Regulations and Directives**
- AB Administration and Glossaries**
- AC Other Documents**

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**TAB Z**

**PHOTOGRAPHS**

**Z-1 Reserved**

**Z-2 Reserved**

**Z-3 UH-60 Black Hawk**

**Z-4 E-3B AWACS Senior Director's Console**

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**TAB Z**

**PHOTOGRAPHS**

**Z-1 Reserved**

**Z-2 Reserved**

**Z-3 UH-60 Black Hawk**

**Z-4 E-3B AWACS Senior Director's Console**

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**TAB Z**

**PHOTOGRAPHS**

**Z-1 Reserved**

**Z-2 Reserved**

**Z-3 UH-60 Black Hawk**

**Z-4 E-3B AWACS Senior Director's Console**

**Z-1**

**Z-2**

**Z-3**

UH-60 BLACK HAWK HELICOPTER  
WITH EXTERNAL FUEL TANKS  
AND U.S. FLAGS



TAB 23  
UH-60 BLACK HAWK  
HELICOPTER  
SHOWING EXTERNAL  
FUEL TANKS AND  
U.S. FLAGS

**TAB Z**

**PHOTOGRAPHS**

**Z-1 Reserved**

**Z-2 Reserved**

**Z-3 UH-60 Black Hawk**

**Z-4 E-3B AWACS Senior Director's Console**

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**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

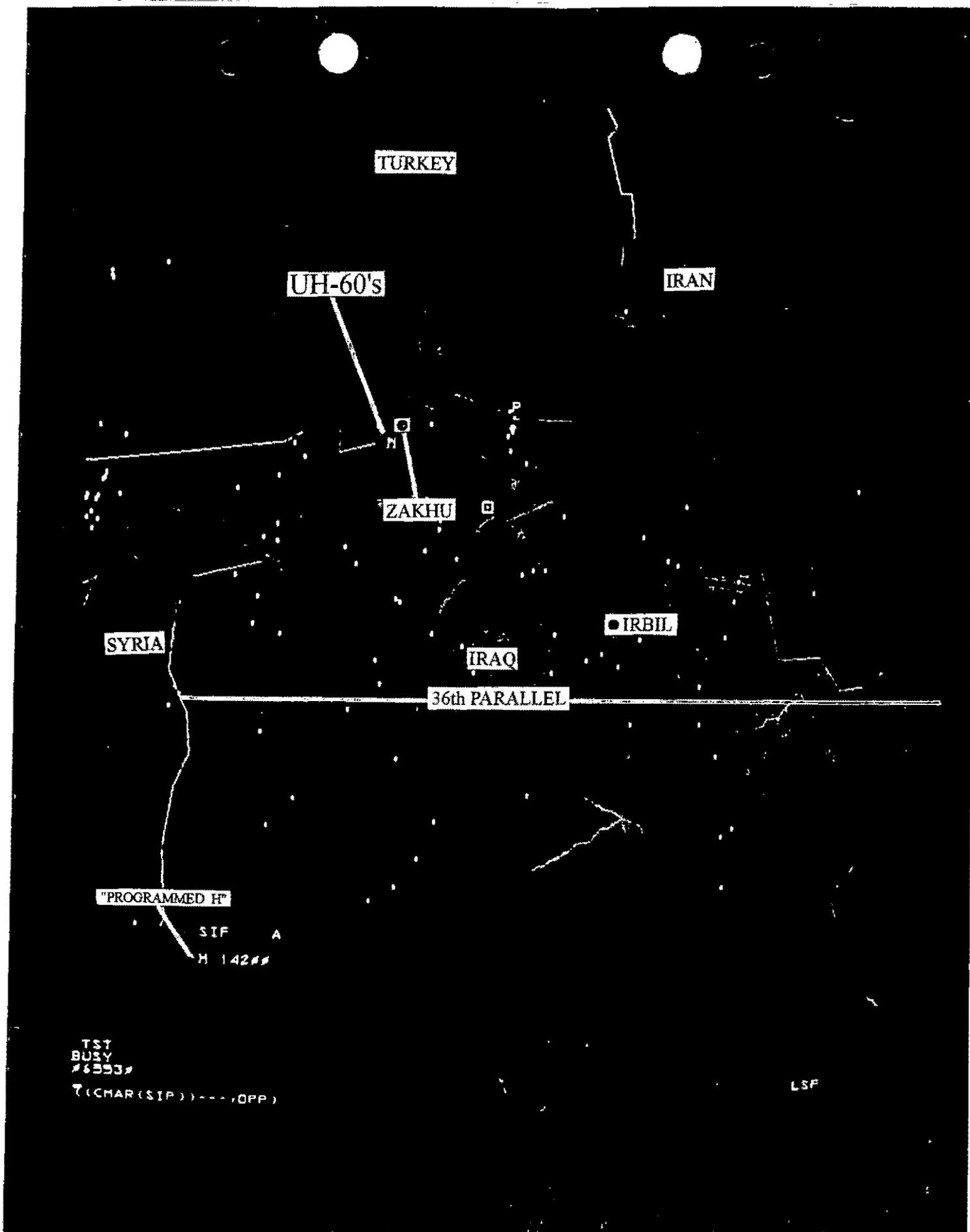
**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4c**

**Z-4h Senior Director's Console, 0727 thru 0730Z**



Z4c1-9 - Photos of replay of the SD's scope from 0655:30Z through 0711:01Z showing that an "H" character was still programmed. They also show an "H" associated with the Black Hawk's IFF proceeding on a southeasterly heading from Zakhu.

TURKEY

IRAN

F-15 C's

ZAKHU

● IRBIL

IRAQ

36th PARALLEL

SYRIA

"PROGRAMMED H"

3750n  
TY3  
XU

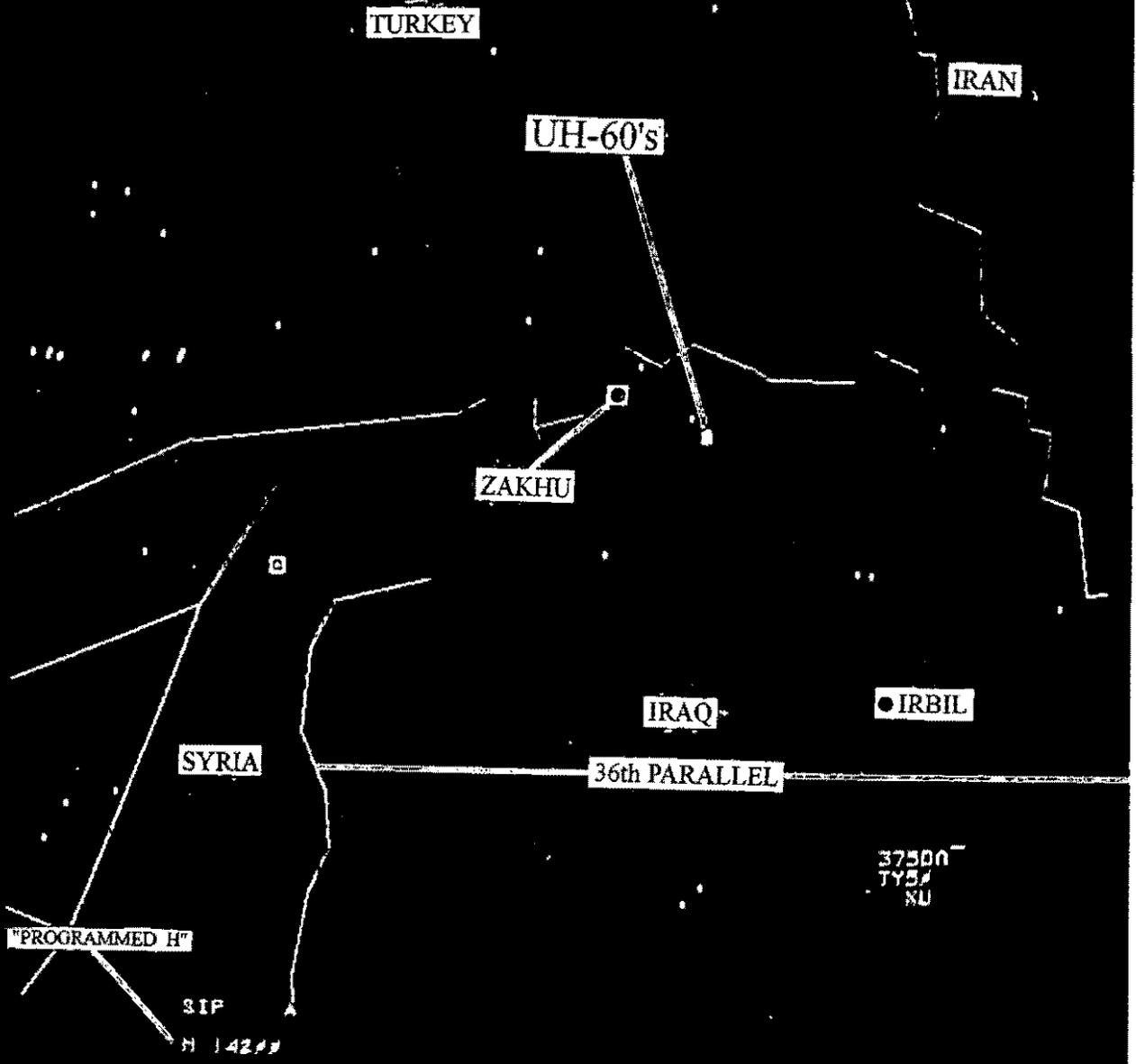
UNASG SY43 SIF A  
M 14200

47833

7 CHAR (CIP) (---OPF)

LSF

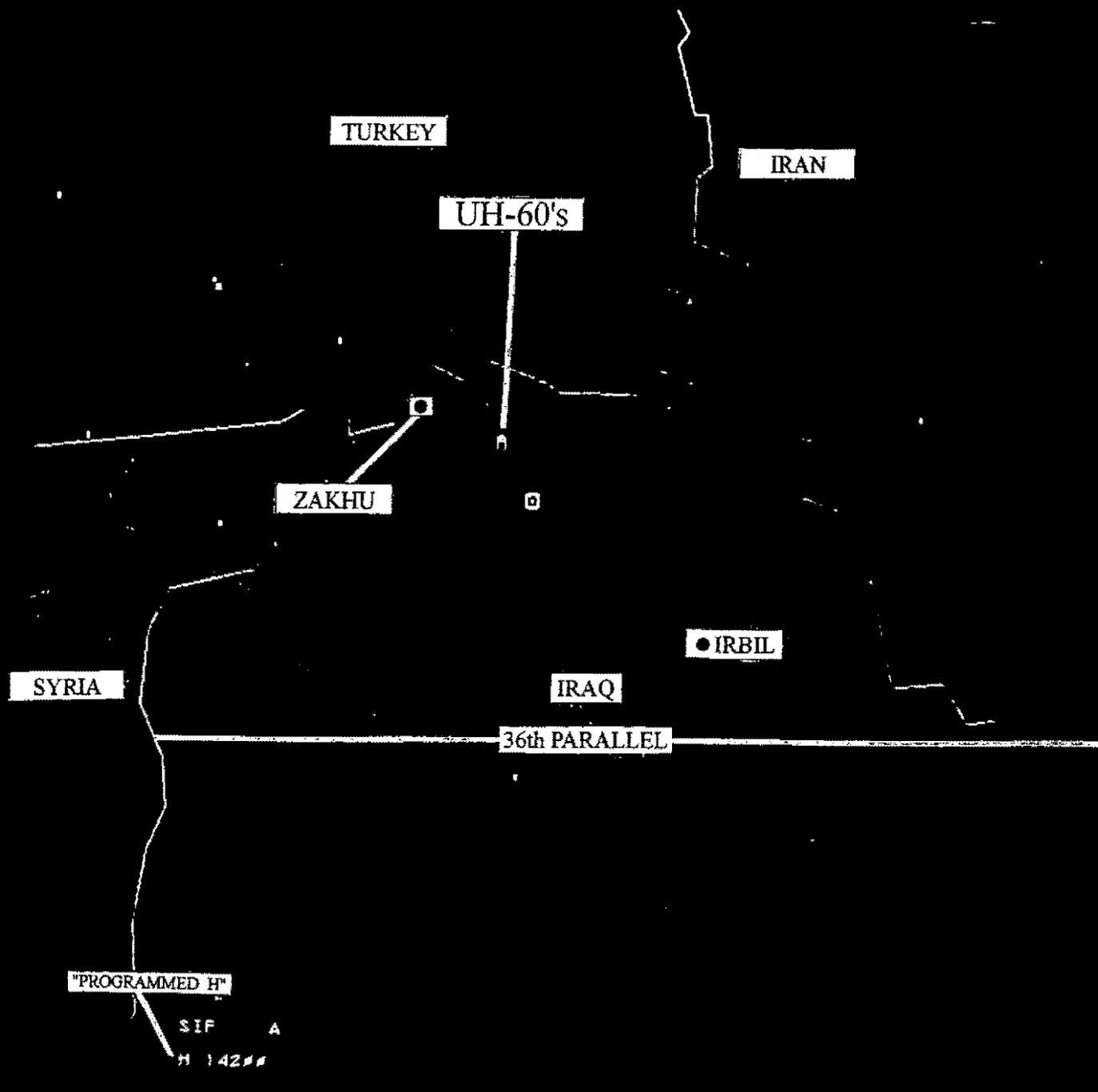
Z4c7 TIME 0708:30Z



177312  
 T(CMAR(SIP))---70PP)

LSP

Z4c6 TIME 0708:02Z

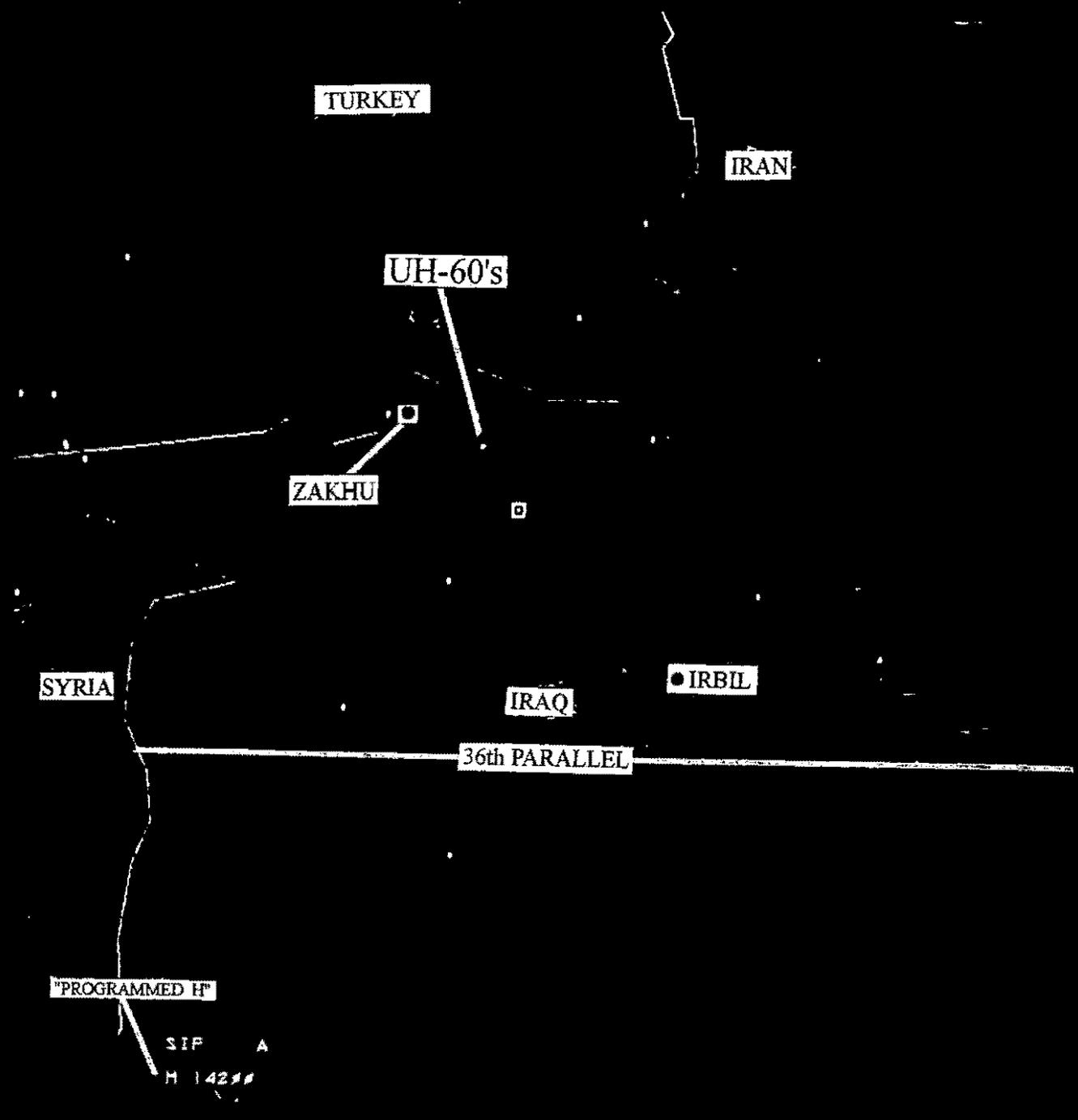


TST  
BUSY  
#7#731  
T(CHAP(SIP))---(OFF)

LSF

Z4c5 TIME 0707:31Z

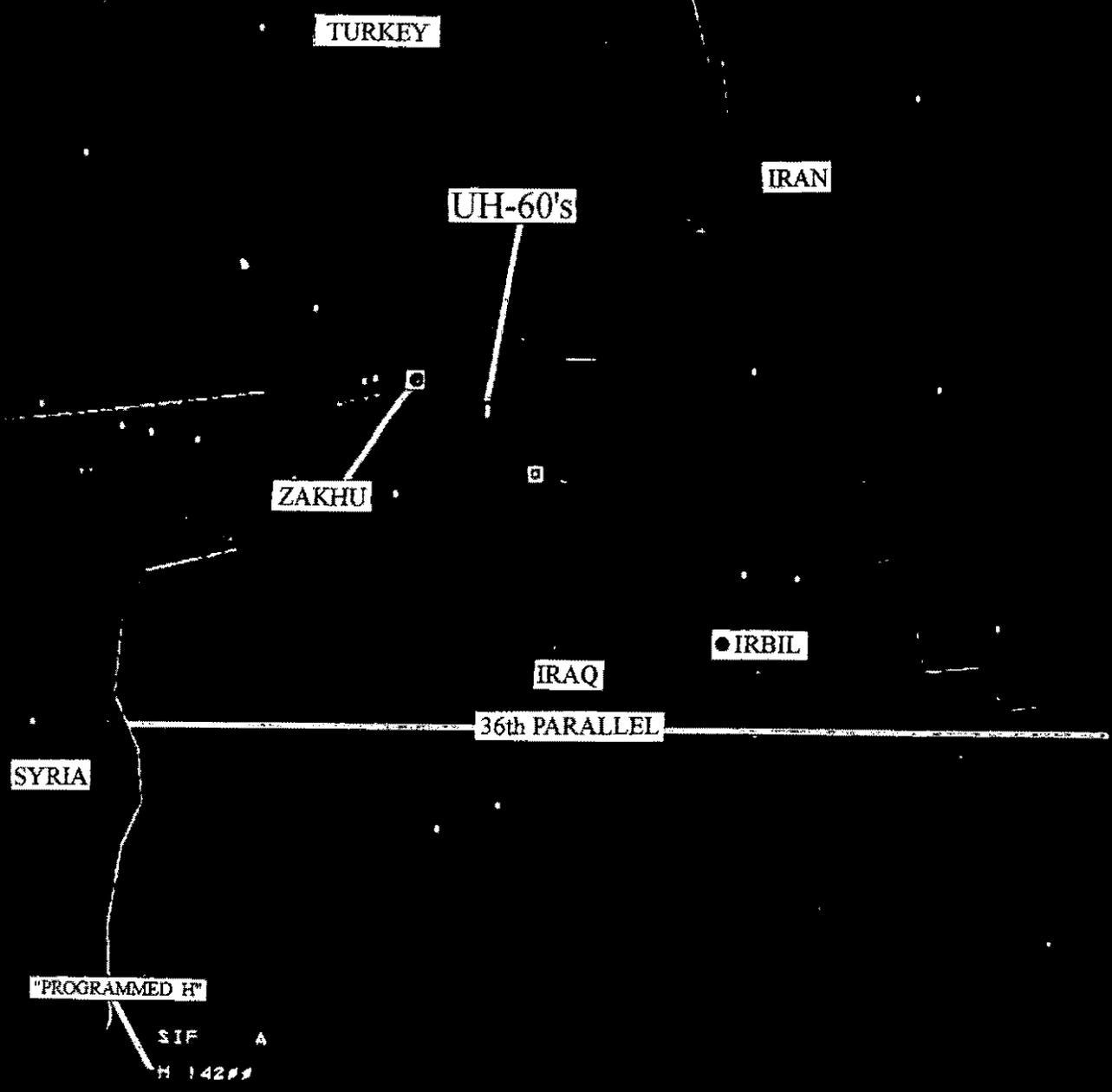
15 47



TST  
BUSY  
#75755  
T(CHAR(SIP)) --- .OFF)

LSP

Z4c4 TIME 0707:00Z

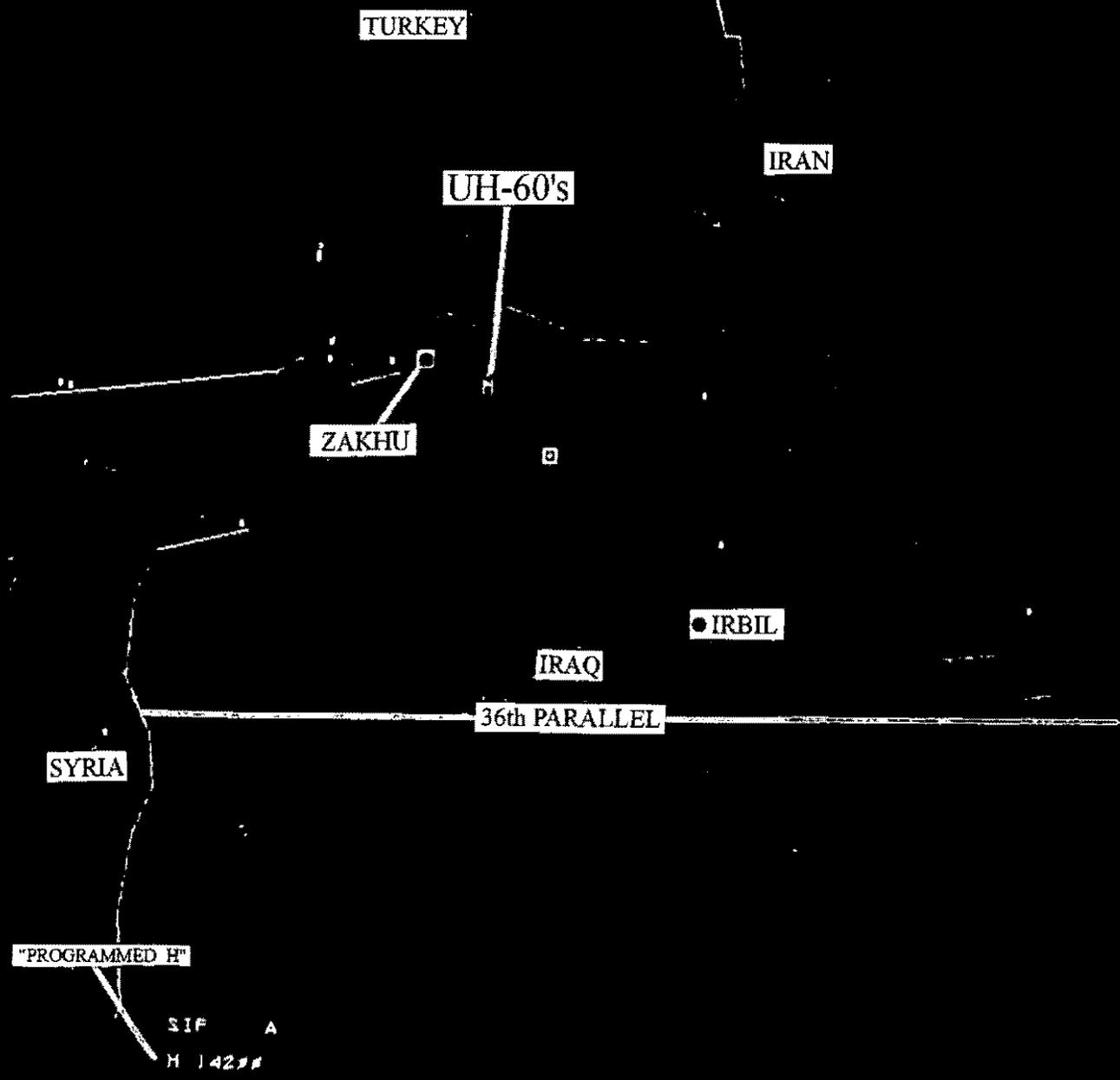


TST  
 BUSY  
 #776#1  
 T(CHAR(SIF))---(OFF)

LSP

Z4c3 TIME 0706:01Z

17



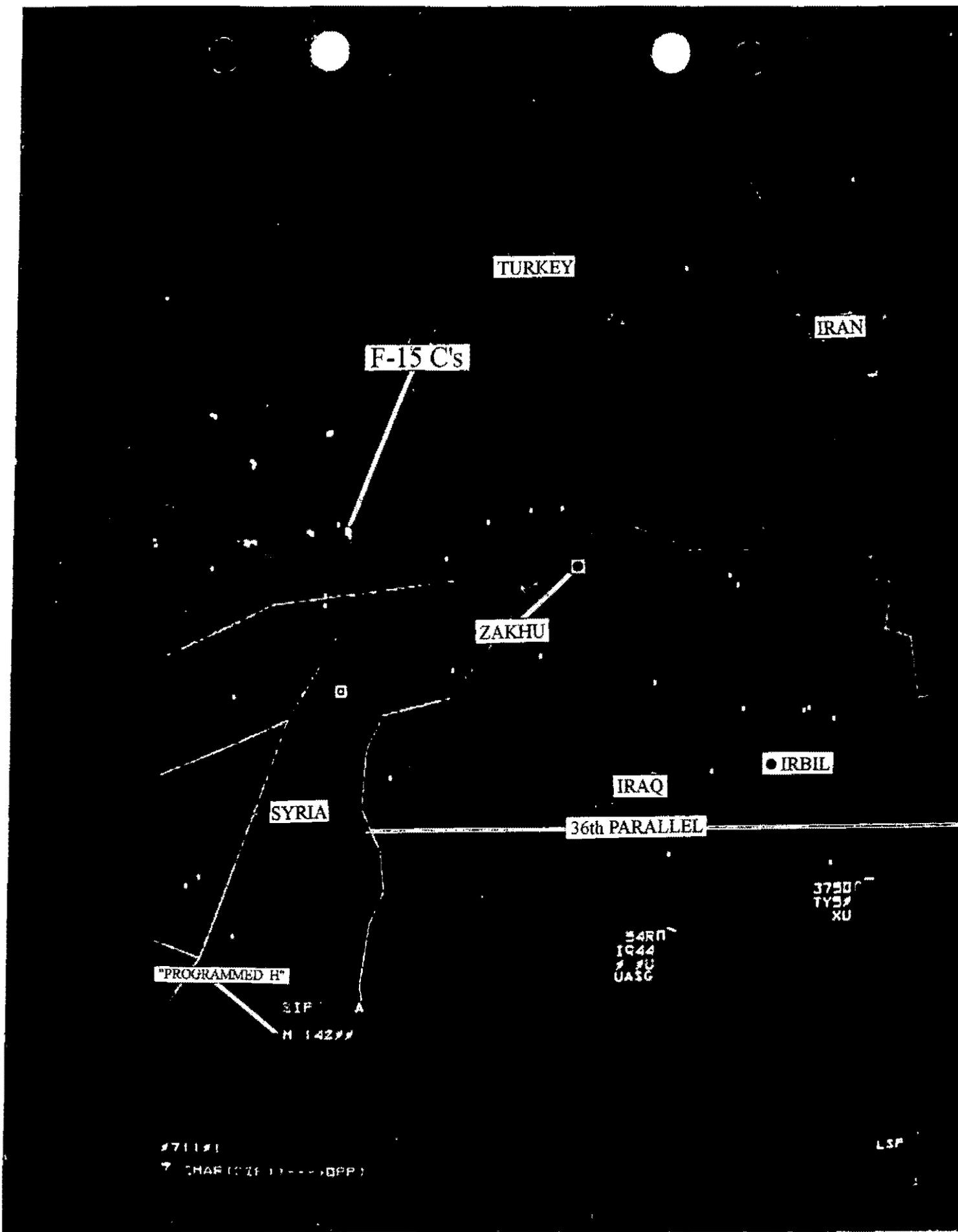
"PROGRAMMED H"

SIF A  
H 14294

TST  
BUSY  
#794#  
7 (CHAR (SIP)) --- OPP)

LSF

Z4c2 TIME 0704:01Z



Z4c9 TIME 0711:01Z

TURKEY

IRAN

F-15 C's

UH-60's

ZAKHU

● IRBIL

SYRIA

IRAQ

36th PARALLEL

"PROGRAMMED H"

37500  
TYS  
XU

SIRI  
1044  
JU  
UASG

SIF  
M 14277

#71738

7 CHAR (SIP) --- OPP

LSP

Z4c8 TIME 0710:38Z

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

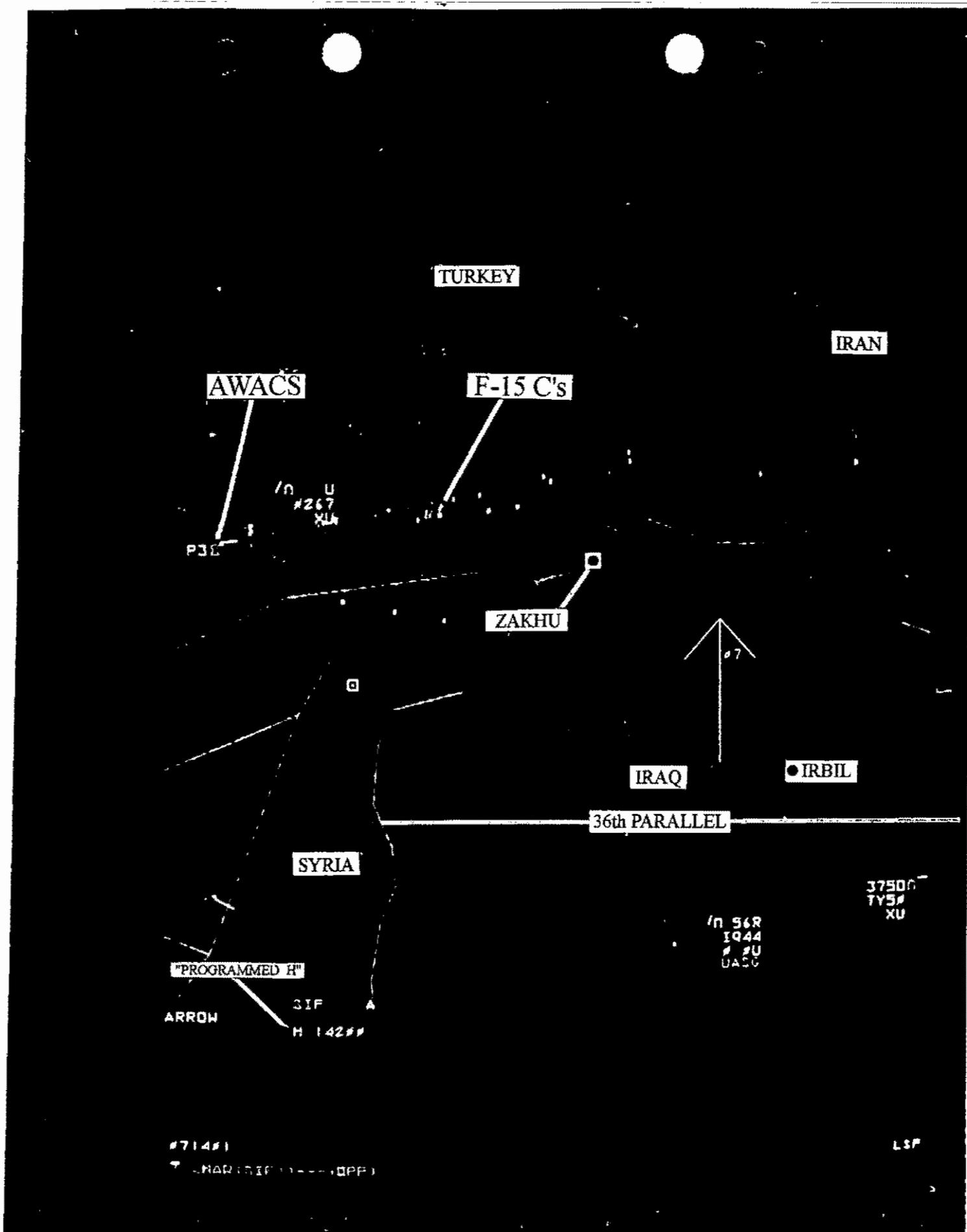
**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4c**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

**Z-4d**



Z4d1-2 - Photos of replay of the SD's scope at 0714:01Z and 0715:00Z showing no "H" or IFF/radar being displayed on the Black Hawks when they faded from AWACS coverage. Also, photo 1 shows a computer-generated ARROW being received at the SD's console from console 07, the ASO. Photo 2 shows that the arrow is no longer displayed...

TURKEY

AWACS

F-15 C's

IRAN

1/n U  
#267  
XU  
P32

ZAKHU

● IRBIL

IRAQ

36th PARALLEL

SYRIA

0 44R  
#257  
X7

"PROGRAMMED H"

SIF  
H 1428

3750  
TY3  
XU

1/n 56R  
1944  
XU

#71388

T: MAP (SIF) --- DPP

LSP

Z4d2 TIME 0715:00Z

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4c**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

**Z-4d**

**Z-4e**

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

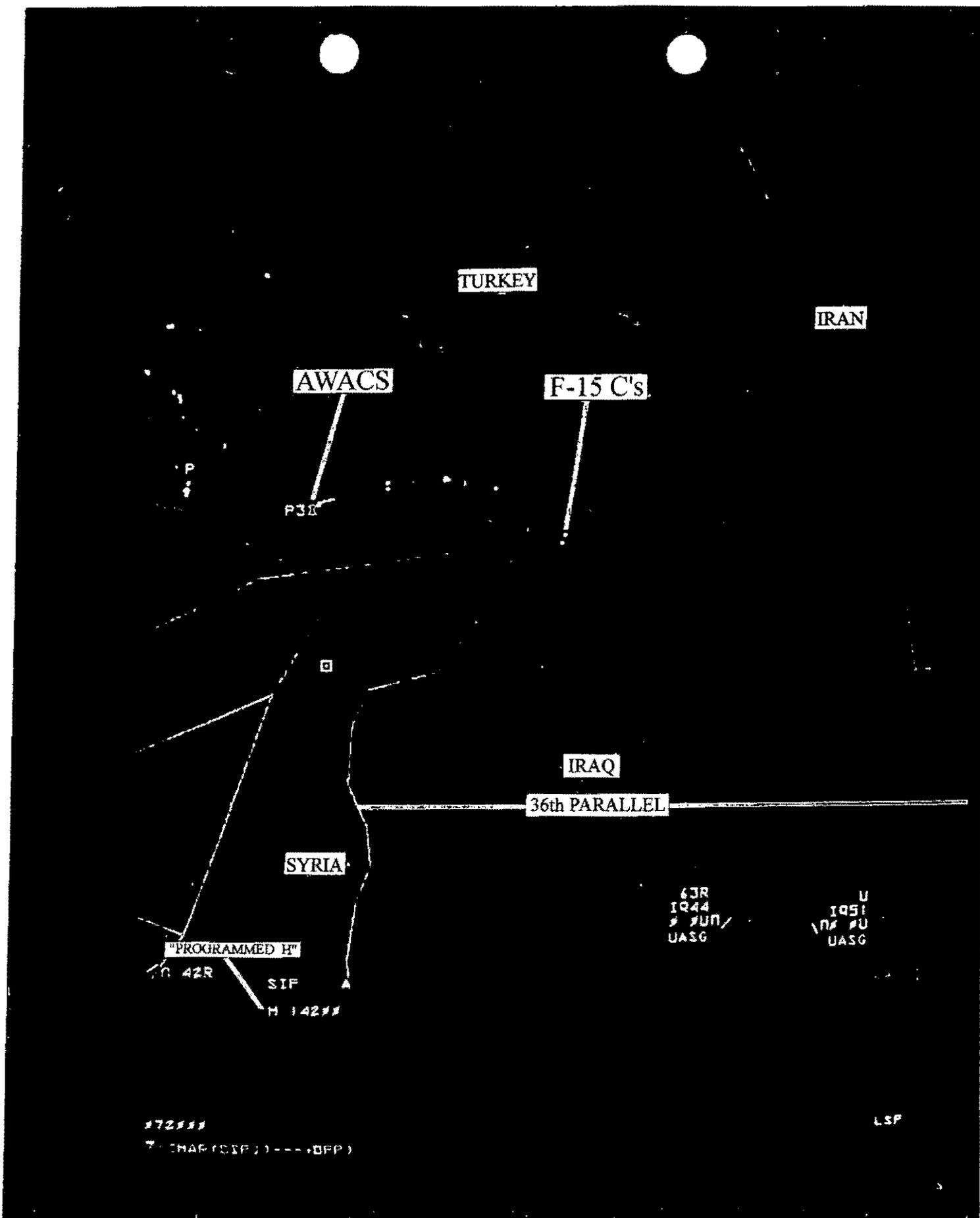
**Z-4c**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

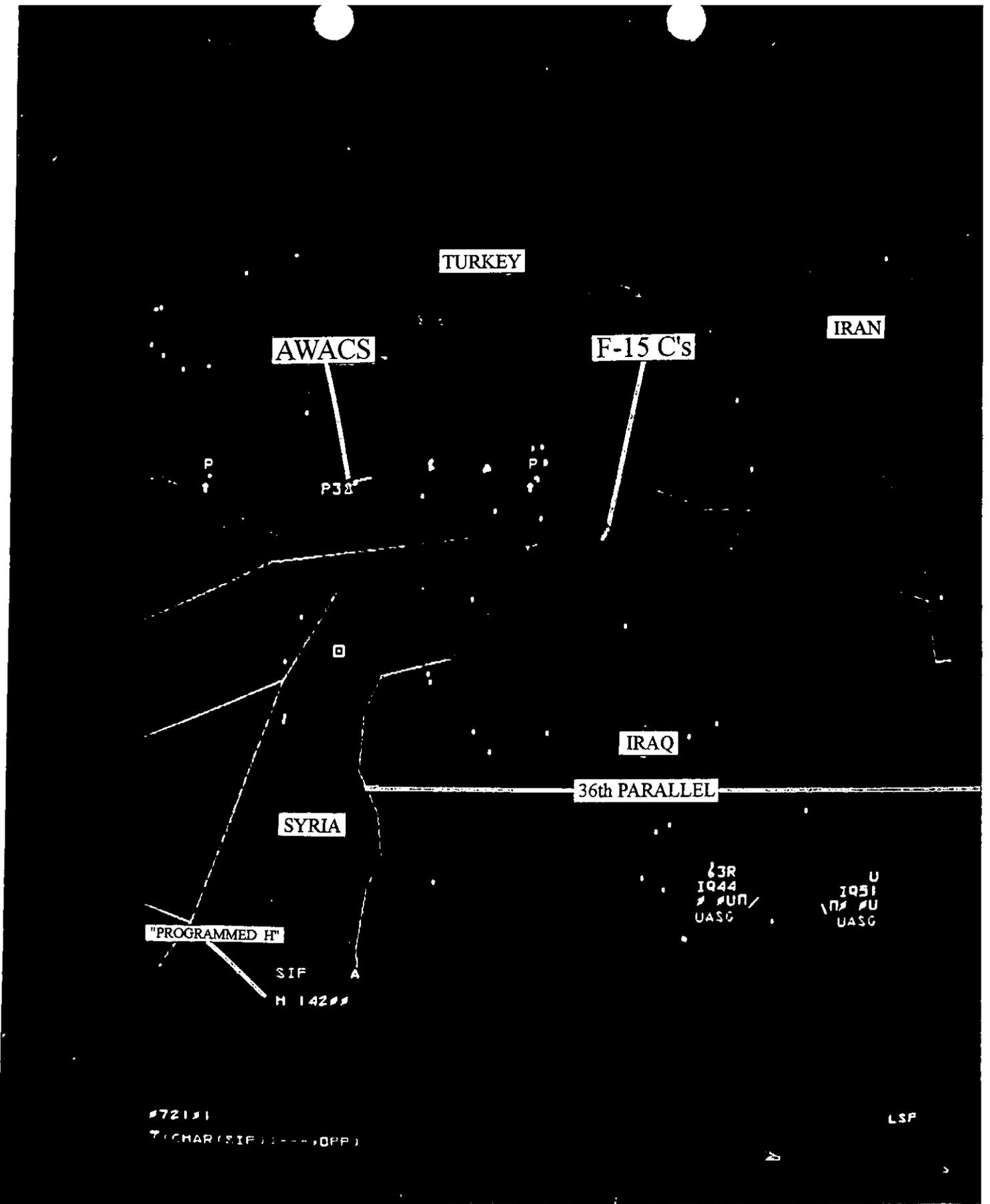
**Z-4d**

**Z-4e**

**Z-4f**



Z4e - Photo of replay of the SD's scope at 0720:00Z showing that an "H" character was still programmed. Photo shows the F-15s entering the TAOR at Gate 1.



Z4f1-4 - Photos of replay of the SD's scope from 0721:01Z through 0722:31Z showing that an "H" character was still programmed. Photos show the F-15s continuing on a southeasterly heading during their interception of the Black Hawks, and no IFF/radar from the Black Hawks on AWACS' scopes.

TURKEY

IRAN

AWACS

F-15 C's

P38

IRAQ

36th PARALLEL

SYRIA

"PROGRAMMED H"

SIF

H 142

63R  
1944  
UN/

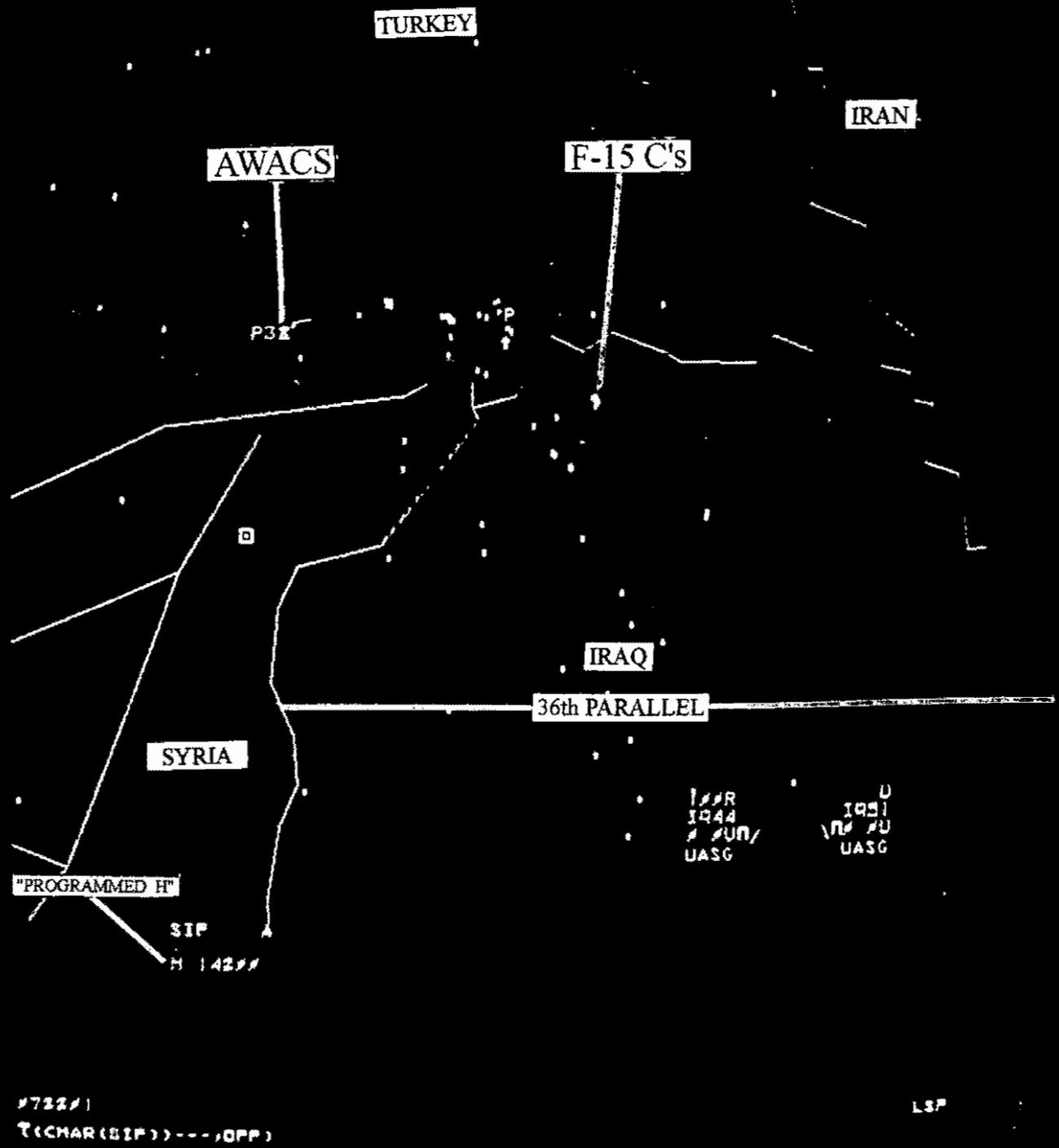
U  
1951  
UN/

172130

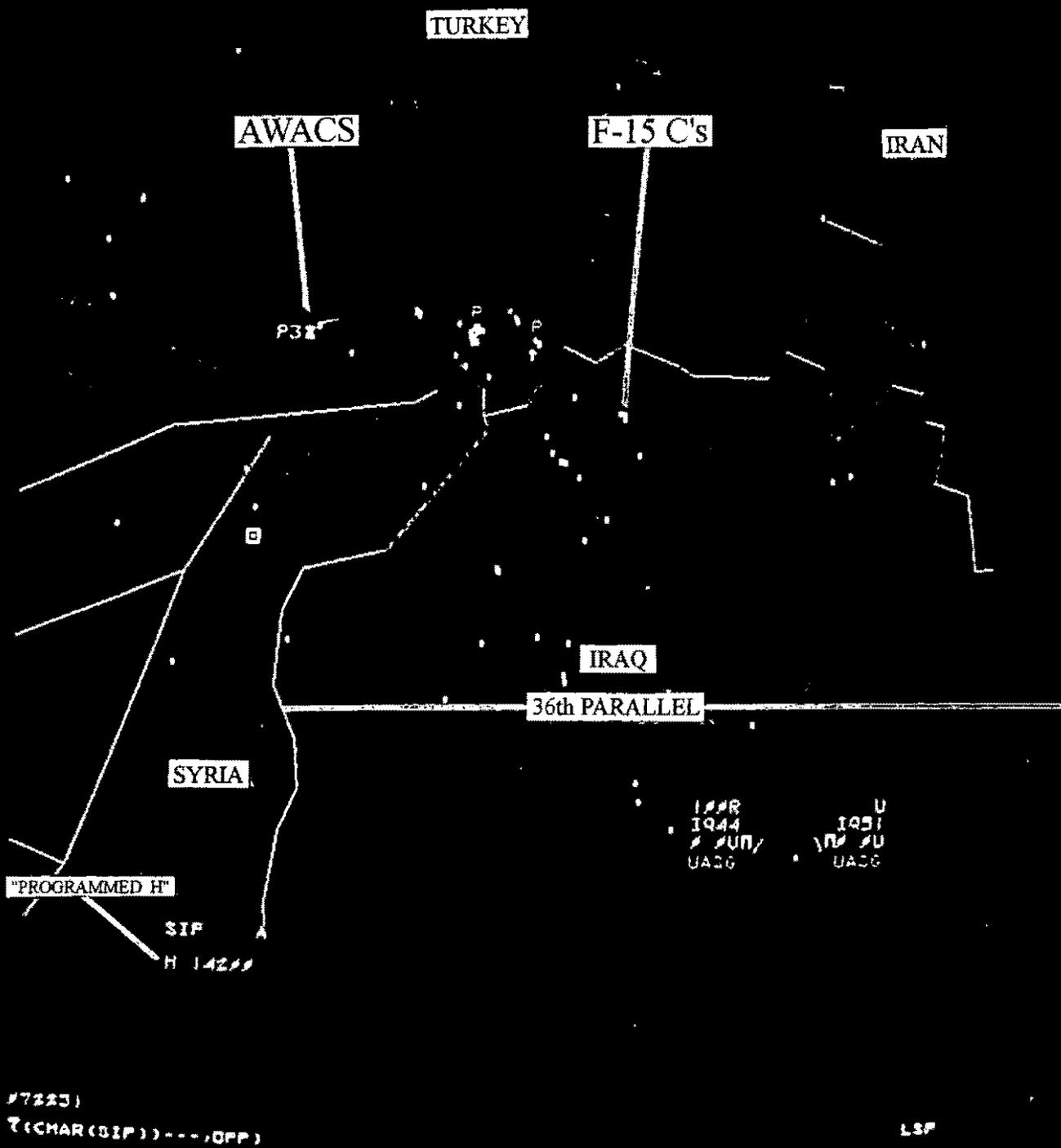
7 CHAR (SIF) (---) (000)

LSP

Z4f2 TIME 0721:30Z



Z4f3 TIME 0722:01Z



Z4f4 TIME 0722:31Z

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4c**

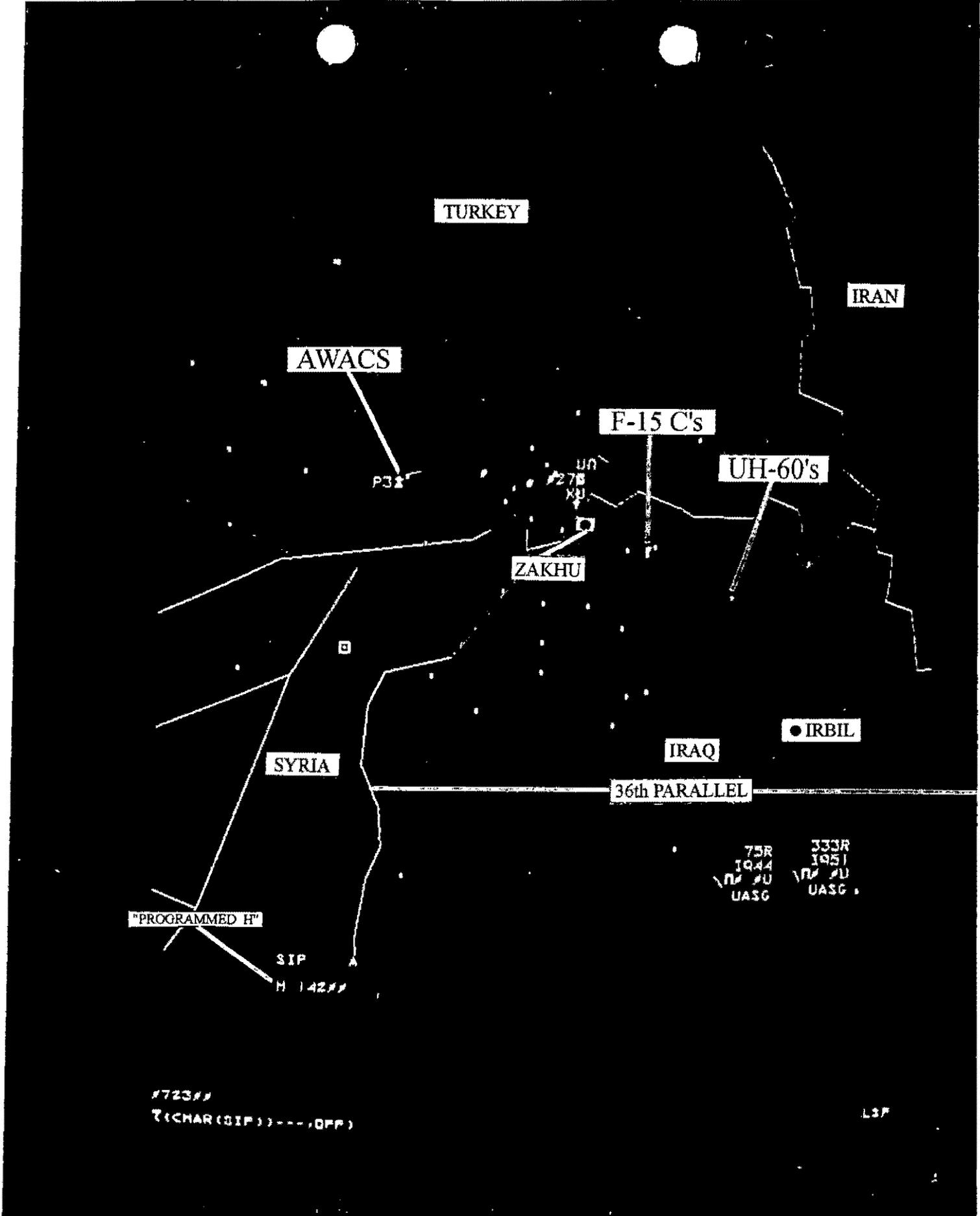
**Z-4h Senior Director's Console, 0727 thru 0730Z**

**Z-4d**

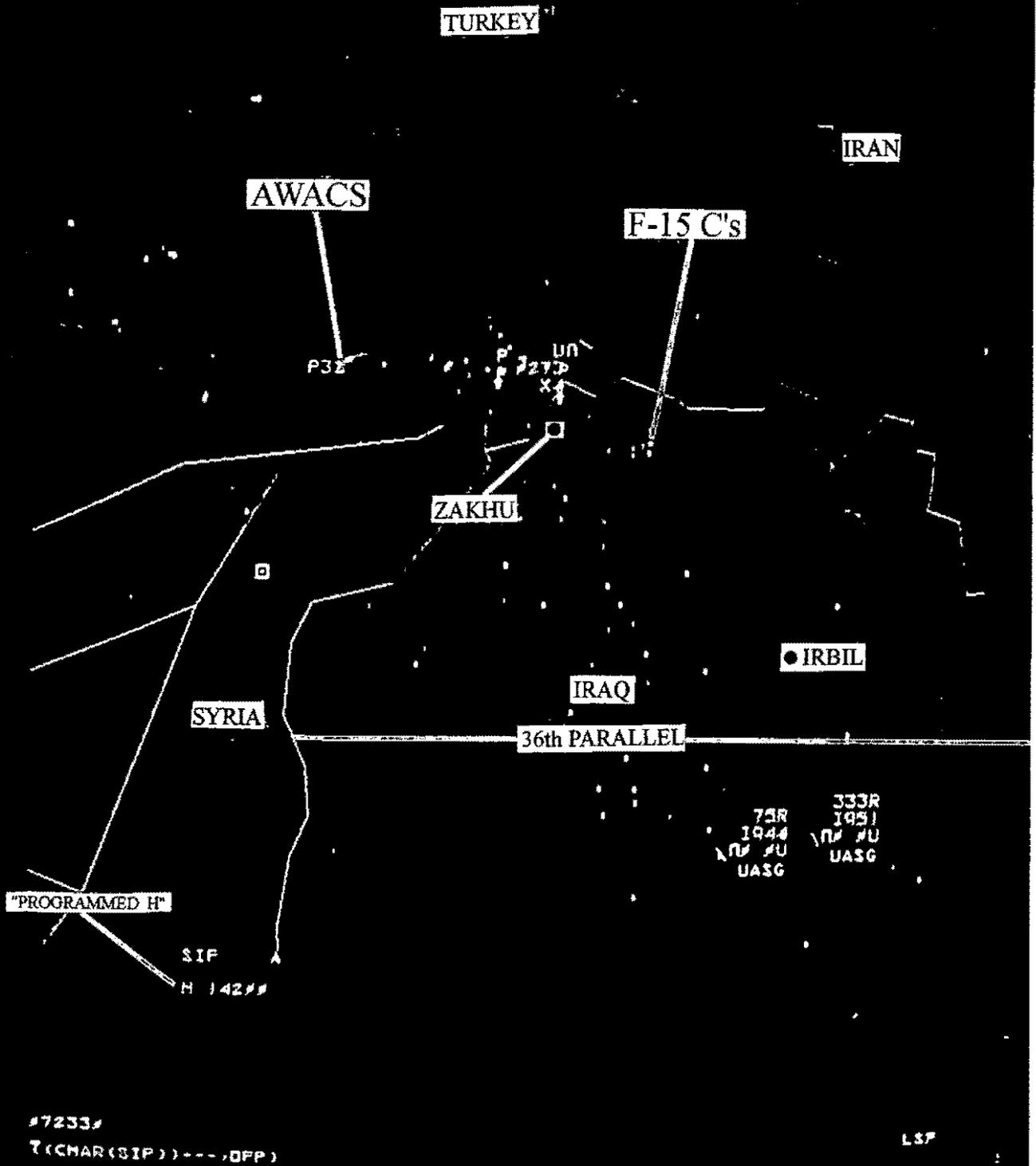
**Z-4e**

**Z-4f**

**Z-4g**



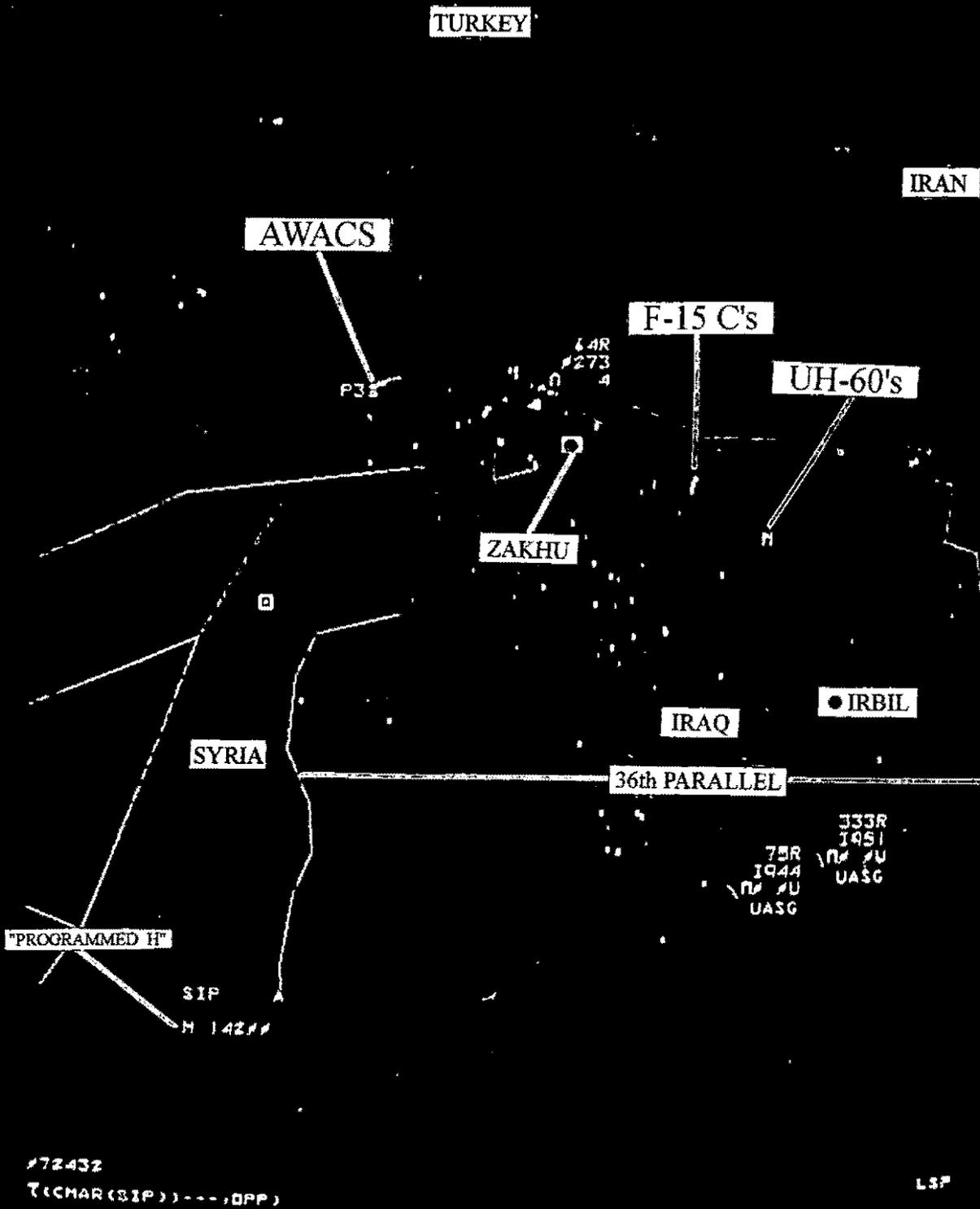
Z4g1-6 - Photos of replay of the SD's scope from 0723:00Z through 0725:31Z showing that an "H" character was still programmed. The photos show the F-15s continuing their intercept and the reappearance of the Black Hawk's IFF and associated "H".



Z4g2 TIME 0723:30Z

12





Z4g4 TIME 0724:32Z

TURKEY

IRAN

AWACS

F-15 C's

UH-60's

ZAKHU

IRBIL

IRAQ

36th PARALLEL

SYRIA

"PROGRAMMED H"

SIP  
H 142

83R  
#273  
4

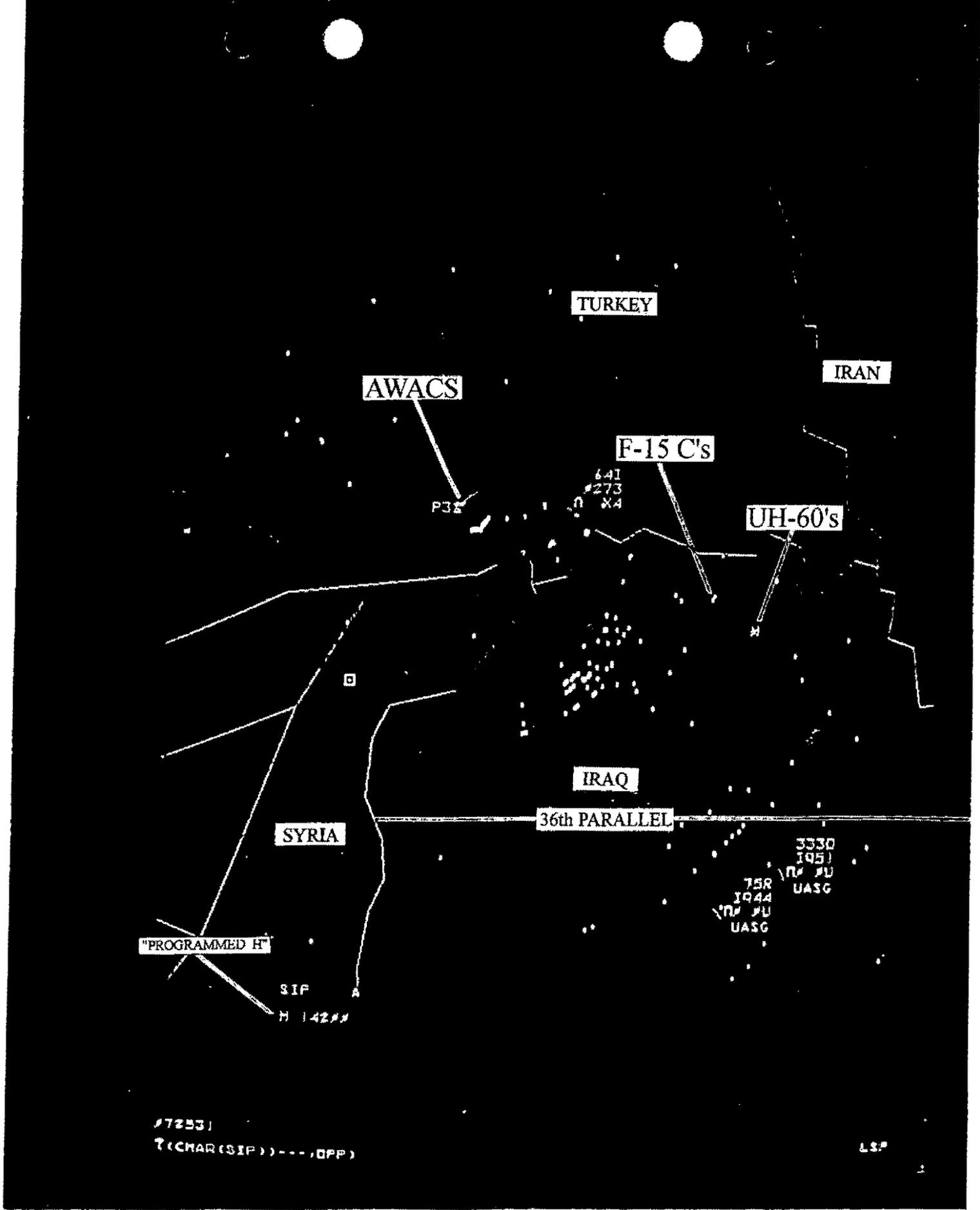
3330  
1951  
75R \ NP #U  
1944 \ NP #U  
UASC  
UASC

#725  
T (CHAR (SIP)) --- (DPP)

LSP

Z4g5 TIME 0725:00Z

12 11



Z4g6 TIME 0725:31Z

1.

**TAB Z-4**

**E-3B AWACS CONSOLES**

**Z-4a Senior Director's Console, 0616Z**

**(See Classified Addendum)**

**Z-4b Senior Director's Console, 0620Z and 0624Z**

**(See Classified Addendum)**

**Z-4c Senior Director's Console, 0655 thru 0711Z**

**Z-4a**

**Z-4d Senior Director's Console, 0714 and 0715Z**

**Z-4e Senior Director's Console, 0720Z**

**Z-4b**

**Z-4f Senior Director's Console, 0721 thru 0722:31Z**

**Z-4g Senior Director's Console, 0723 thru 0725:31Z**

**Z-4c**

**Z-4h Senior Director's Console, 0727 thru 0730Z**

**Z-4d**

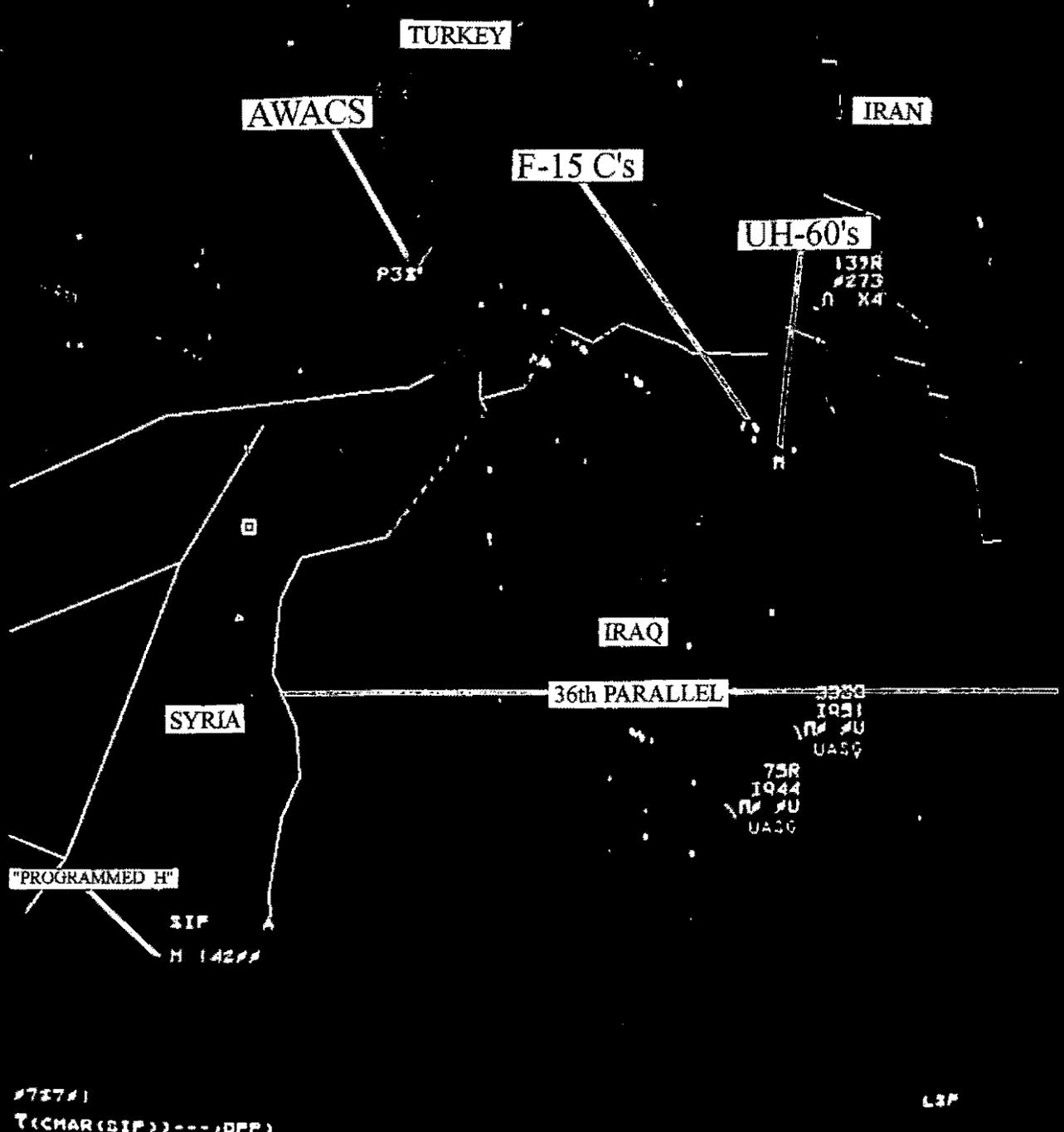
**Z-4e**

**Z-4f**

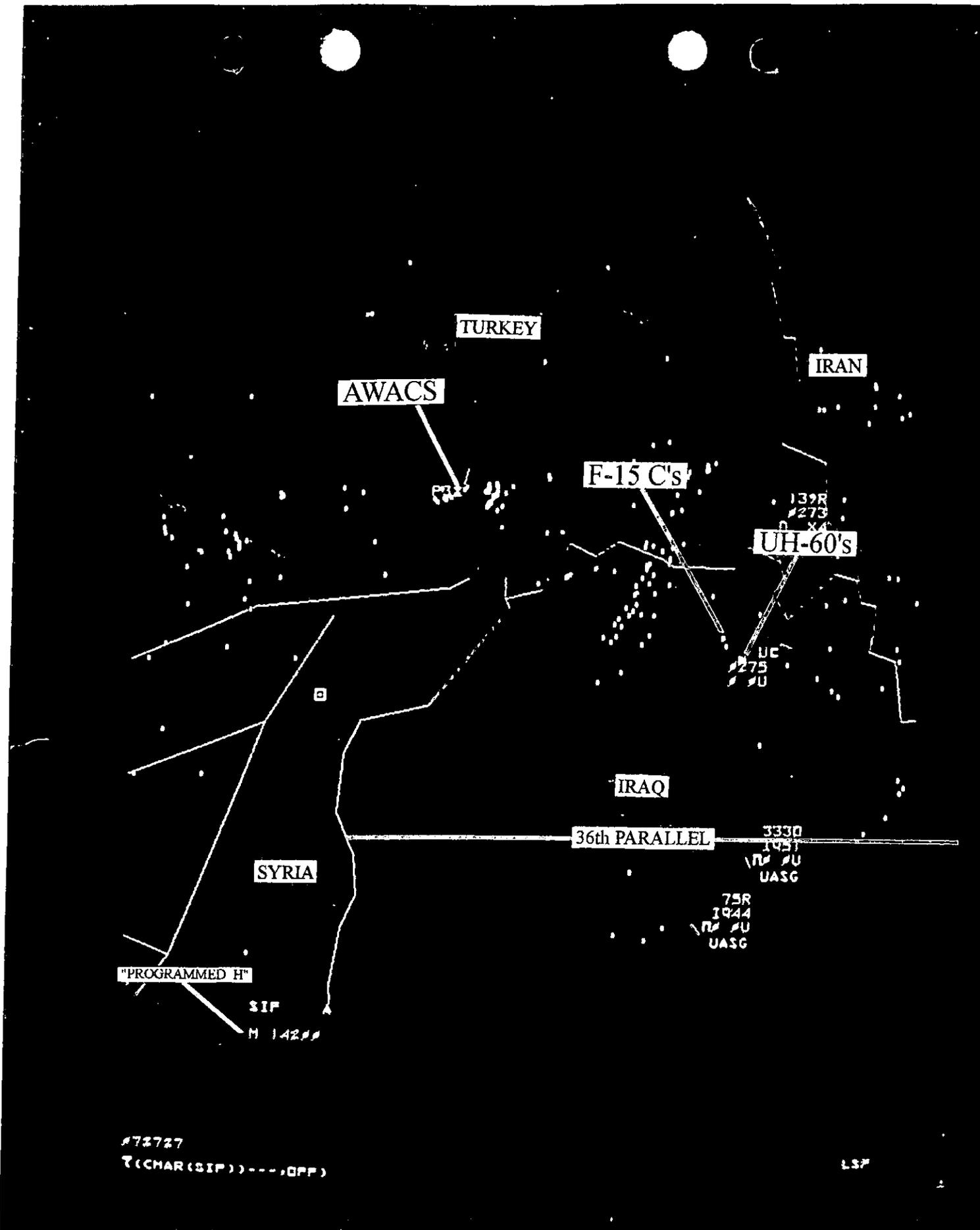
**Z-4g**

**Z-4h**

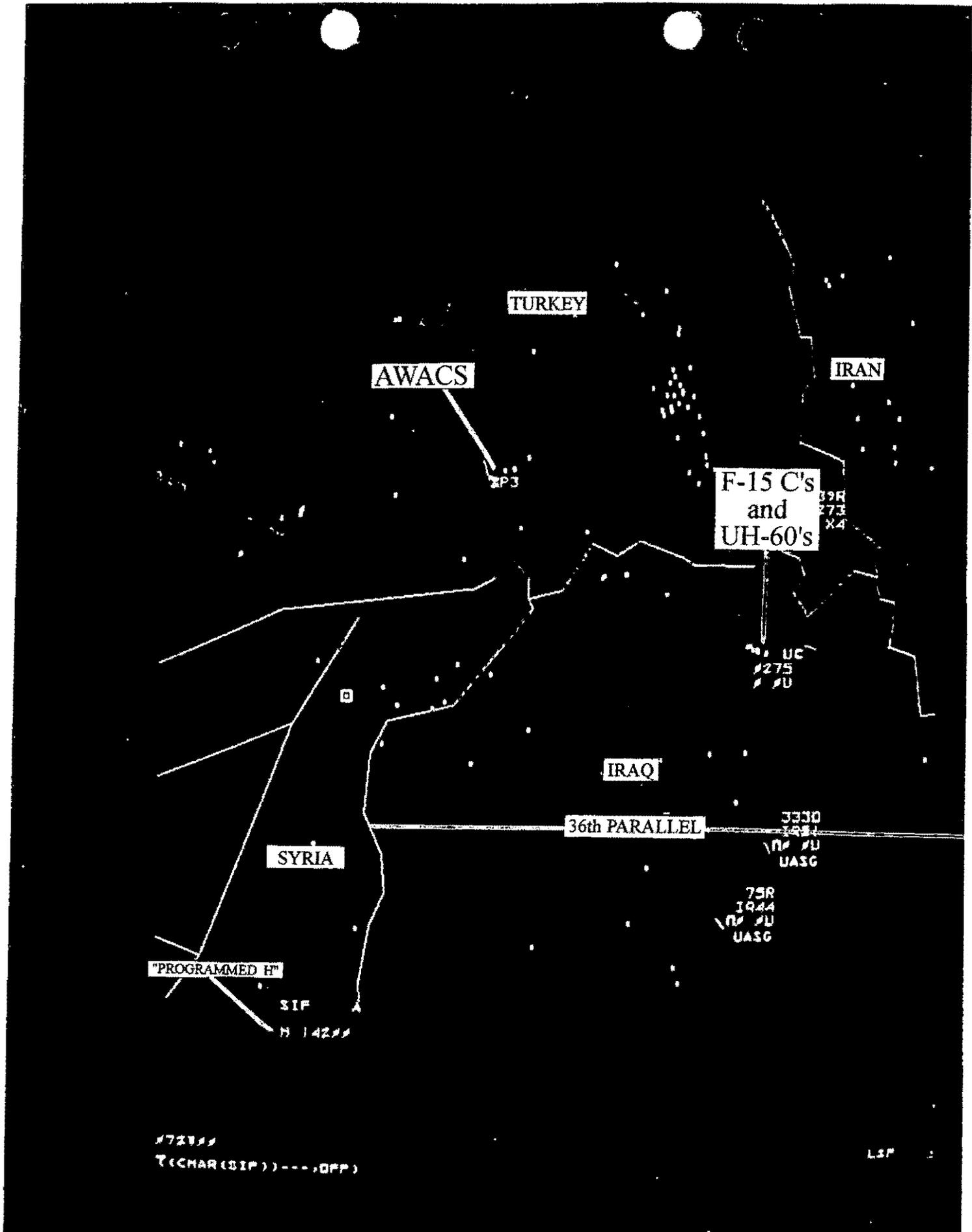
1-7



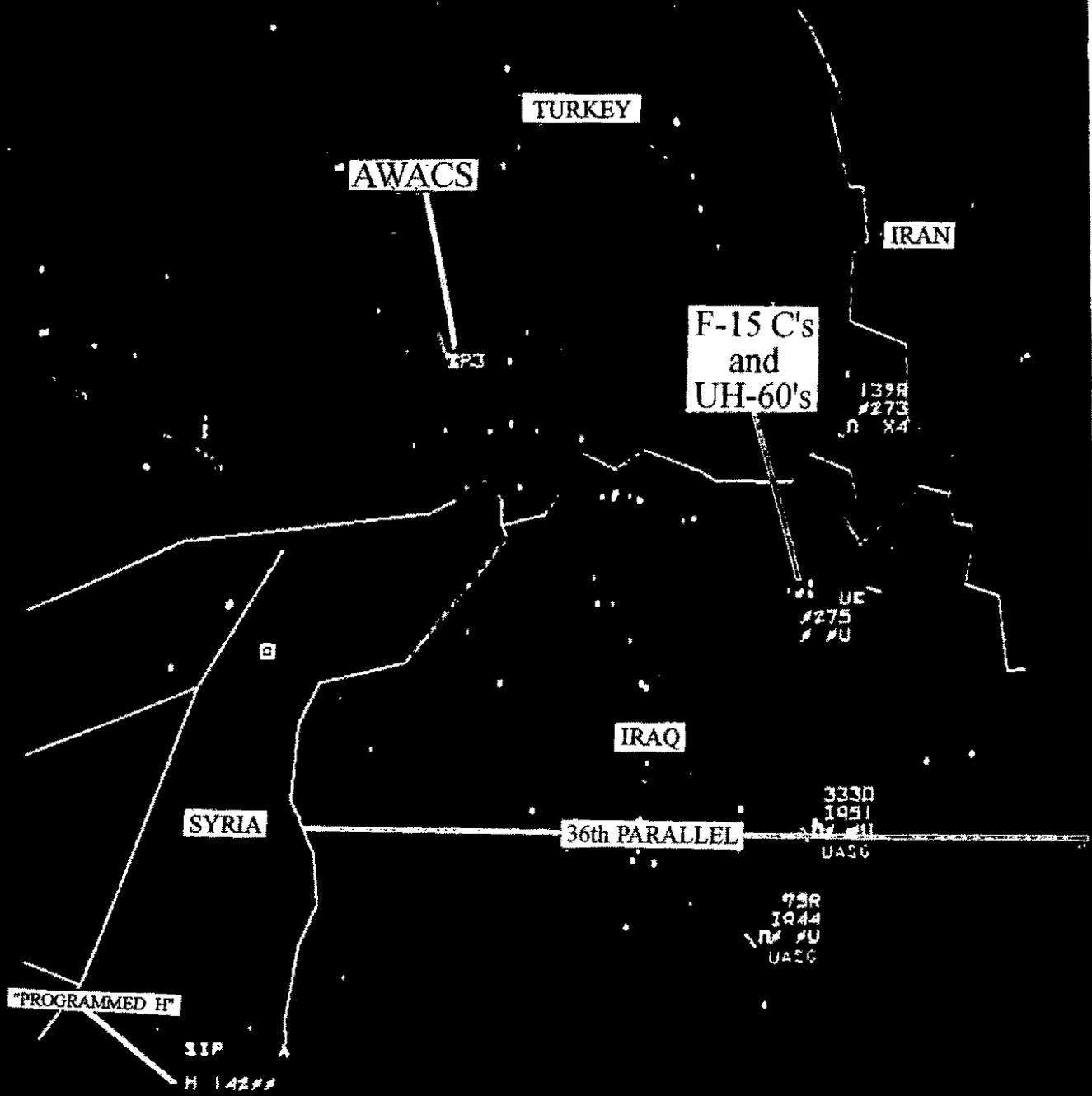
Z4h1-7 - Photos of replay of the SD's scope from 0727:01Z through 0730:00Z showing that an "H" character was still programmed. The photos show the F-15s continuing their intercept of the Black Hawks, an AWACS track symbology has been initiated in the vicinity of the "H", the disappearance of the Black Hawk's IFF and associated "H", and finally two track information displays on the AWACS symbology.



Z4h2 TIME 0727:27Z



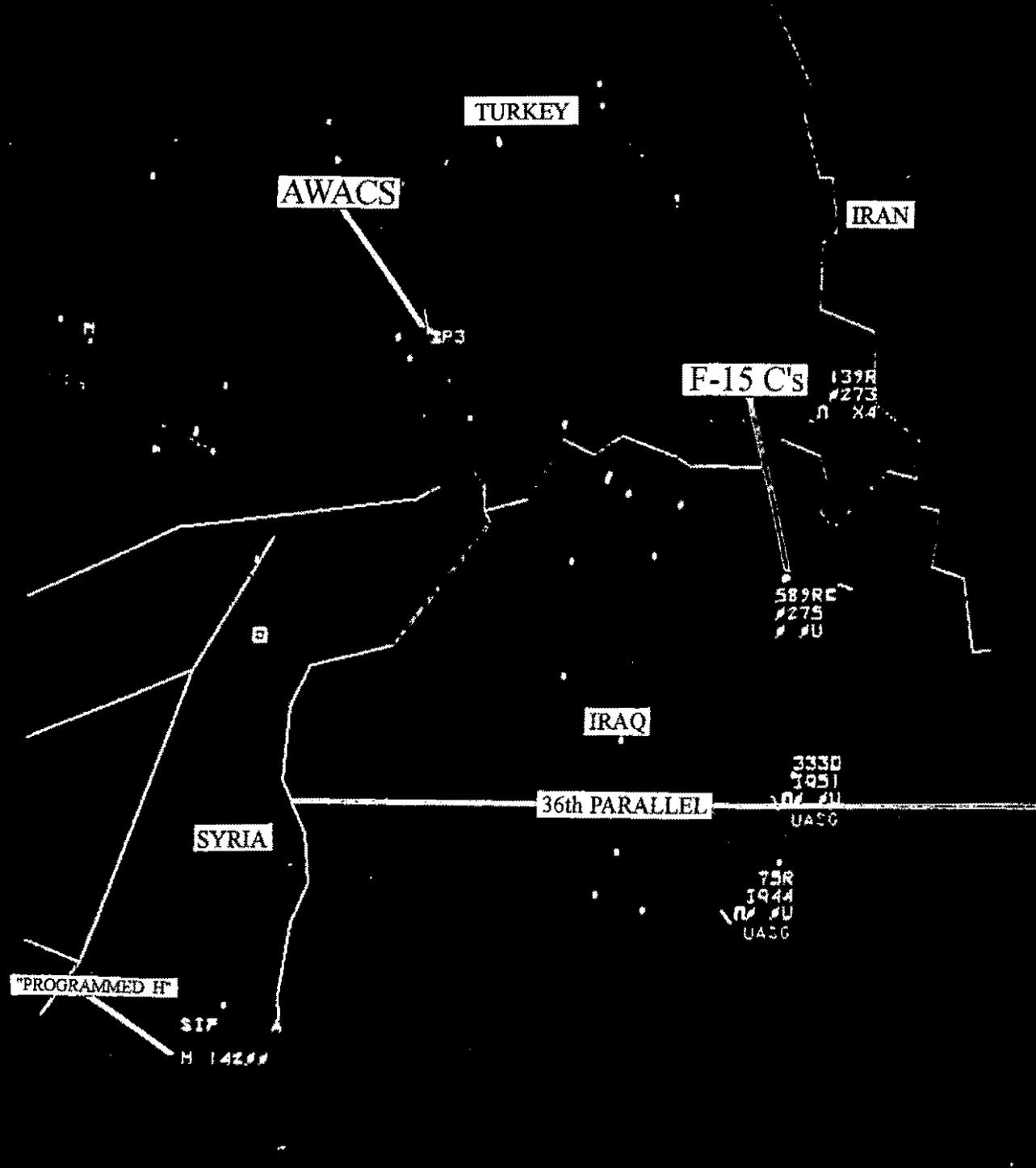
Z4h3 TIME 0728:00Z



172331  
 (CHAR(SIP)) --- ,OPP)

137

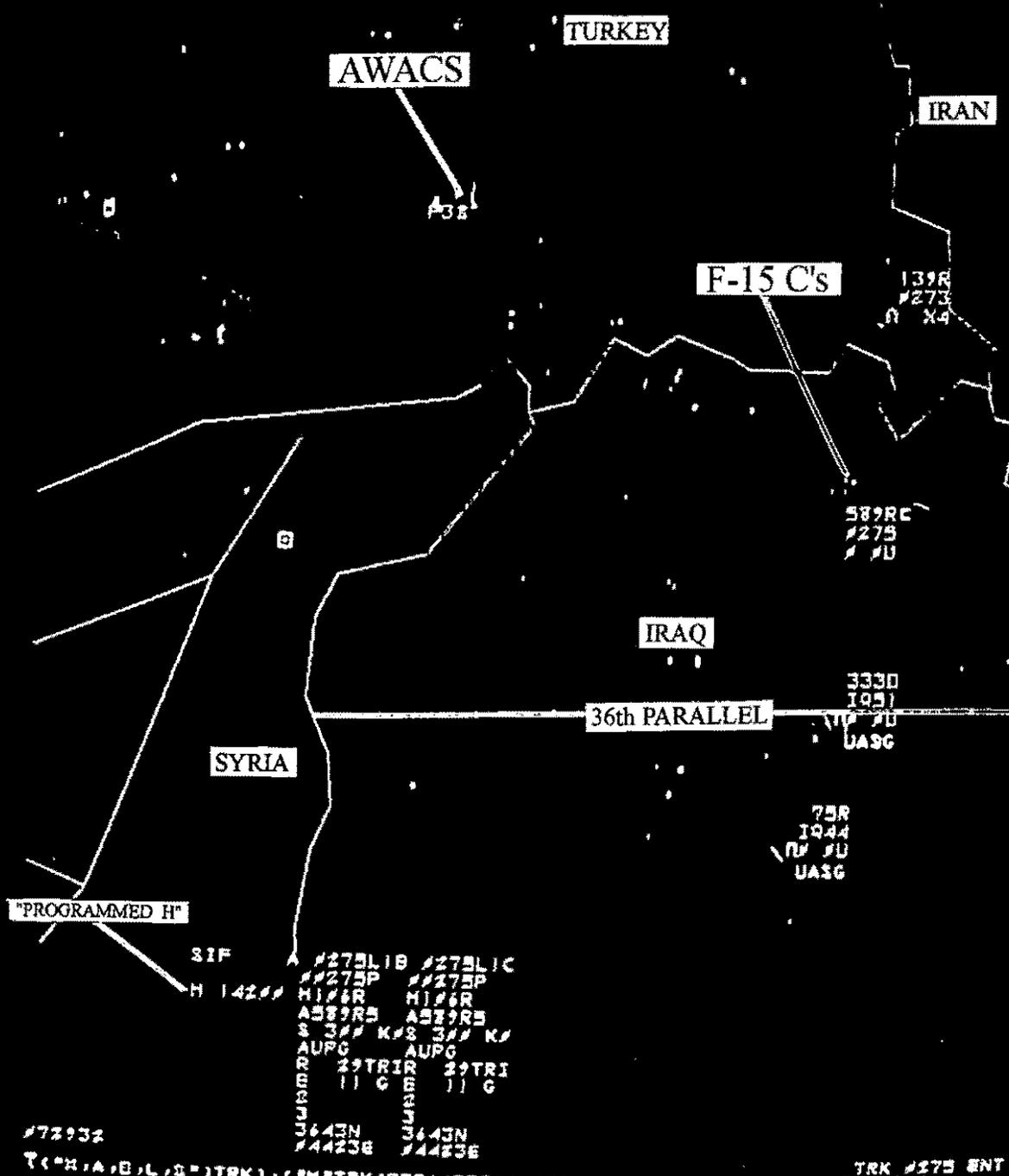
Z4h4 TIME 0728:30Z



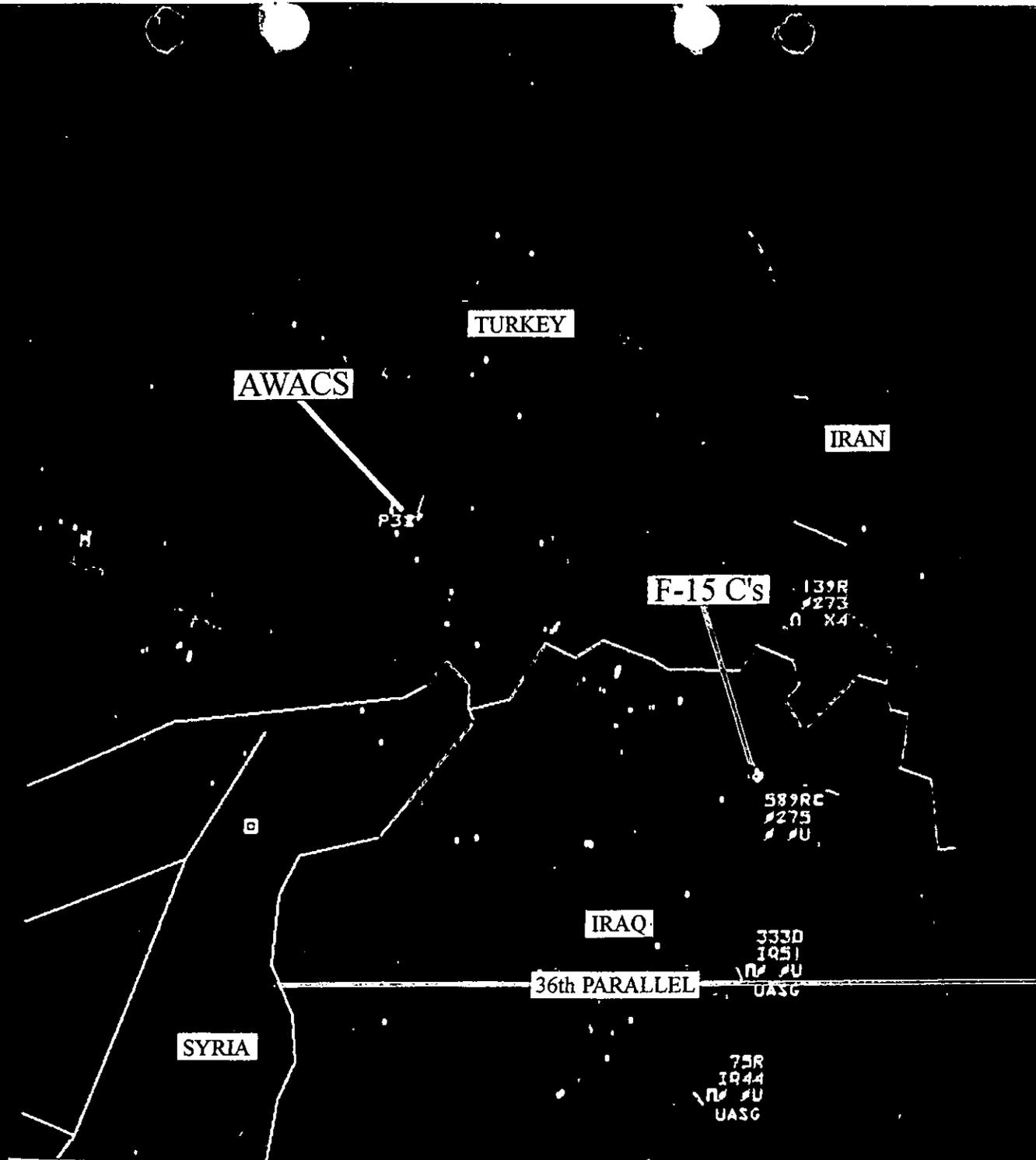
#729#1  
 T(CHAR(SIP))---(OFF)

LSP

Z4h5 TIME 0729:01Z



Z4h6 TIME 0729:32Z



"PROGRAMMED H"

SIP A #275LIB #275LIC  
 #275P #275P  
 H 142## H1#6R H1#6R  
 A589R3 A589R3  
 S 3// K/S 3// K/  
 AUPG AUPG  
 29TRIR 29TRI  
 11 G E 11 G  
 #643N #643N  
 #4426E #4426E

TRK #275 ENT  
 T("X,A,B,L,S")TRK), ("H"TRK(PBR)(OFF)), ("I"("X,D")TRK), ("TA,TJ,TB"TRK)...