

# EV6 CRUISE PLAN

OCTOBER 3, 1989

[VCA ± 6 HOURS]

*BTLT?*  
*OWLT = 2<sup>M</sup>37<sup>S</sup>*

*Slew Start for move to LINK (Oct 2 BRPLIN) 039/10:45:10 039/23:39:10*

*looks there 115° h.A. from*

*clear beam by ↓*

No.	Observation Name	OAPel
①	Venus Partial Disk Imaging, Nightside <i>VSIM = 039/ 11:28:10</i>	VPDIN1
②	N/S Radiometry Map	NSMAP2
③	Jail Bars	JBARS
④	Venus Partial Disk Imaging, Nightside	VPDIN2
⑤	Fast N/S Radiometry Map (1)	FNSMAP1
⑥	Venus Lightning Search	VLING1
⑦	Fast N/S Radiometry Map (2)	FNSMAP2
⑧	Venus Limb Scans, Night <i>EuV UVS</i>	VLSN
⑨	Fast N/S Radiometry Map (3) <i>3:04:20 LMB DFT</i>	FNSMAP3
⑩	UVS Limb Drift (1) <i>3 limbs = G at 1356, F at 1983, Net 3991</i>	LMBDFT1
⑪	Venus Limb Scans, Day <i>N/S = F + N scans G, 2 posn (1356, 1393) / 6 step/mini</i>	VLSD
⑫	UVS Limb Drift (3) <i>G (1356, 1393, 1597, 1657); G (1216, 1304-1317)</i>	LMBDFT3
⑬	Fast N/S Radiometry Map	FNSMAP4
⑭	Venus Limb Scans (1)	VLMBØ1
⑮	N/E/W/S Map <i>F + G full scans 49M</i>	NEWS
⑯	Venus Limb Scans (2)	VLMBØ2

*049 01:03:10 H M S 01:31:10 01:53:10 02:53:40 03:02:10 03:14:20 03:21:58 03:28:22 03:45:10 03:58:10 04:02:30 04:18:10 05:27:10 05:35:50 07:27:10*

Not Numbered:	IONPIC
Ion Pickup	EUV DFT
EUV Drift Observation	PWSHRS
PWS Venus High Rate Frames	

*OK 7:27, 89*  *OK*  *dis op.*  *\* error at end*

# EUVDFT

- Great-circle scans of Venus, its surroundings, and its interplanetary background

- Intercalibration of 3 instruments at Lyman-alpha

GLL-EUV

GLL-UVS

PVO-UVS

(Venus is one of the brightest solar system objects in Lyman-alpha)

- First EUV spectra of Venus

He, O<sup>+</sup>, O, N<sup>+</sup>, N

Activity ID: ORBIT 00 TARGET V OAPEL EUVDFE MULTI - SEQ NO 01  
 Title EUV DRIFT OBSERVATION  
 Requestor B WAGGONER  
 Working Group AWG  
 Bottom Label  
 Plot Key RS9

GMT TIMING BLOCK

(YY-DDD/HH:MM:SS)  
 Start Time 90-039/19:44:20  
 End Time 90-039/20:56:20  
 Duration 000/01:12:00

AACS/DMS/DOWNLINK

Instruments Used: DDS N EPD N HIC N MAG N NIMS N PLS N  
 PPR N PWS N RS N SSI N UVS N EUV Y

Scan Platform Reserved N  
 Earth Referenced N  
 Spin Status (All/Dual) D  
 Coop Imaging Required N  
 DMS Activity RECORD  
 Data Format/RT Downlink

OBSERVATION OBJECTIVE

THE EUV WILL MAP SPATIAL DISTRIBUTIONS OF HYDROGEN AND OXYGEN FROM 1 V(RAD) FROM THE DARK LIMB TO 1.5 V(RAD) FROM THE BRIGHT LIMB. THE BRIGHT LIMB CROSSING IS OF PARTICULAR IMPORTANCE.

DESIGN DETAIL

Data modes, instrument modes, filter info, restrictions, implementation  
 CDS cost - attach figures or other information where applicable

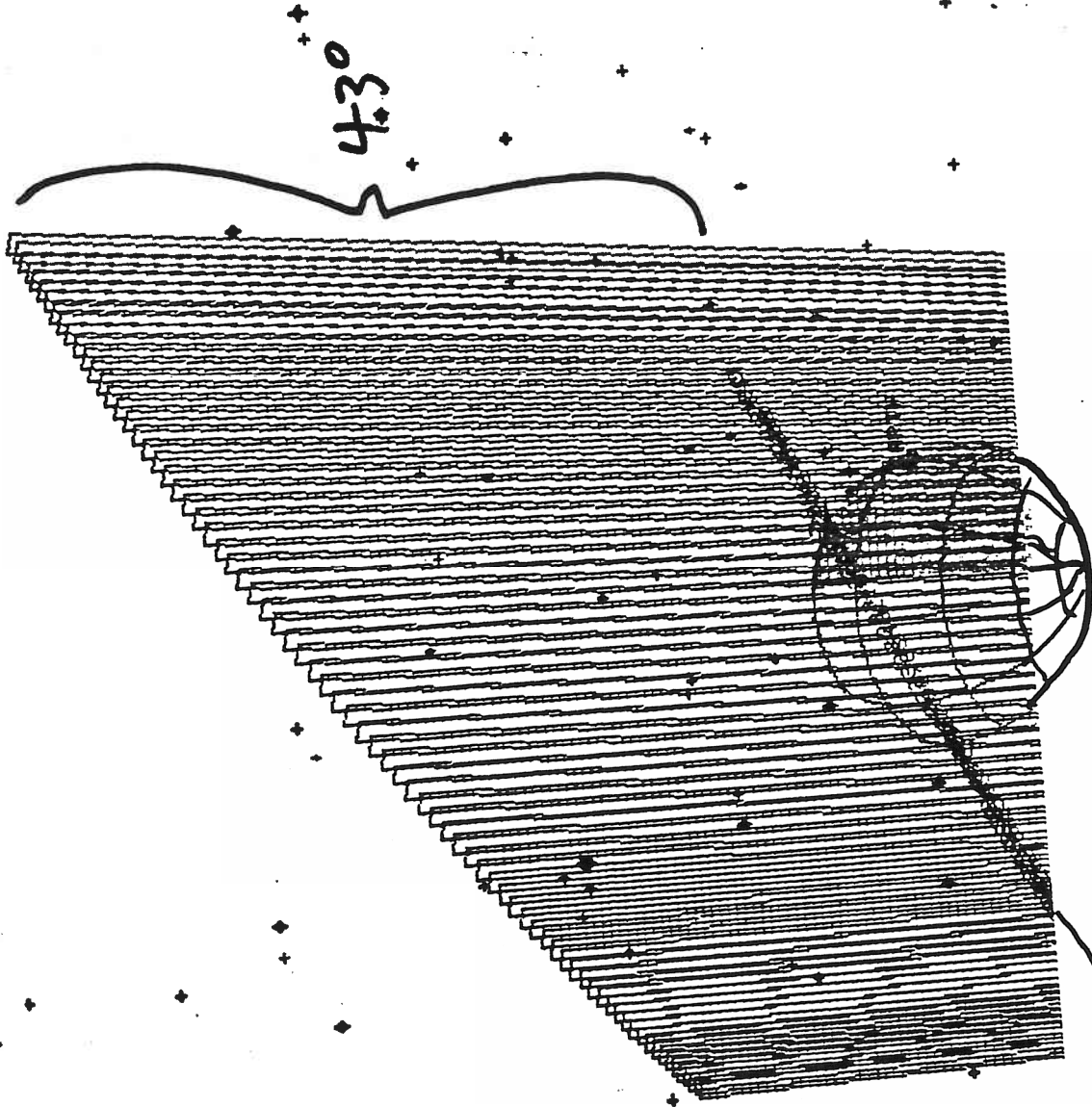
Standard template  
 Pointer  
 CDS Cost 0

THE NUMBER OF SECTORS THE EUV WILL BE SAMPLING IS CURRENTLY UNDETERMINED. IF THE HIC SHOULD REQUIRE DATA DURING THIS PERIOD , THE UVS TEAM WOULD LIKE TO PRESERVE THE DAYLIT PORTION OF THE OBSERVATION. THE UVS WILL BE SAMPLING THIS SAME REGION WITH A TWELVE MINUTE DELAY FROM THE START OF THE EUV OBSERVATION. THIS IS THE ONLY OPPORTUNITY FOR THE EUV INSTRUMENT TO OBSERVE THE PLANET.

CHANGE CONTROL

Version	2	Page	01 of 01
Submission date	10/13/88	Change Date	10/13/88
Figure attached (Y/N)	Y	Changed by	B WAGGONER

VEAVOFT1



THE MACHINE CRASHED HALFWAY THRU  
THIS PLOT! YOU CAN STILL SEE THE  
... IT CHANGE IN THE EPHEMERIS