

APRIL 18, 2013
 NOTE: Times are
 incorrect - order,
 config and names are
 OK - K. Simmons

EV6 CRUISE PLAN

OCTOBER 3, 1989

[VCA \pm 6 HOURS]

BTCT?

OWCT = 2^M 37^S

VENUS OBSERVATIONS

No.	Observation Name	OAPel
1	Venus Partial Disk Imaging, Nightside	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	VLTING1
7	Fast N/S Radiometry Map (2)	FNSMAP2
8	Venus Limb Scans, Night	VLSN
9	Fast N/S Radiometry Map (3)	FNSMAP3
10	UVS Limb Drift (1)	LMBDFT1
11	Venus Limb Scans, Day	VLSD
12	UVS Limb Drift (3)	LMBDFT3
13	Fast N/S Radiometry Map	FNSMAP4
14	Venus Limb Scans (1)	VLMB01
15	N/E/W/S Map	NEWS
16	Venus Limb Scans (2)	VLMB02

Not Numbered:

Ion Pickup

EUV Drift Observation

PWS Venus High Rate Frames

IONPIC

EUVDFE

PWSHRS

Slew
 Start
 for mva
 to L10,
 (Oct 2
 039/10:45
 039/23:39:
 040/
 01:03:10
 H M S
 01:31:10
 01:53:1
 02:53:4
 03:02:1
 03:14:2
 03:21:58
 03:28:2
 03:45:1
 03:58:1
 04:02:3
 04:18:10
 05:27:1
 05:35:5
 07:27:10
 ...

OK
 7:00-7:59
 OK
 dis op.
 * errors
 at end

START TIME: 90-039/20:17:20

Activity ID: ORBIT 00 TARGET: V OAPEL LMBDFT MULTI - SEQ NO 01

Title UVS LIMB DRIFT

Requestor B WAGGONER

Working Group AWG

Bottom Label

Plot Key RS3 - use 6th limb time

GMT TIMING BLOCK

(YY-DDD/HH:MM:SS)

Start Time 90-039/20:17:20

End Time 90-039/20:44:20

Duration 000/00:27:00

AACS/DMS/DOWNLINK

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

Scan Platform Reserved Y

Earth Referenced N

Spin Status (All/Dual) D

Coop Imaging Required N

DMS Activity RECORD

Data Format/RT Downlink

OBSERVATION OBJECTIVE

ON THE DARK LIMB CROSSING AND ON THE NORTH SOUTH SCAN, THE UVS WILL CHARACTERIZE THE NO AND O2 NIGHTGLOWS USING THE F AND N CHANNEL SIMULTANEOUSLY (PVO WAS LIMITED TO ONE CHANNEL AT A TIME). THE DAYLIT SCAN WILL PROVIDE DATA ON THE SPATIAL VARIABILITY OF SO2.

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 UVS SLIT WILL START OFF THE DARK LIMB AND DRIFT FOR SIX MINUTES. THE UVS WILL USE THE F AND N CHANNEL AND PPR WILL BE USING THE SOLAR AND SOLAR PLUS THERMAL CHANNELS AT 4 SAMPLES EACH. AFTER SIX MINUTES THE SLIT IS POSITIONED OFF THE NORTH POLE AND A 600 MICRORADIAN SCAN IS EXECUTED TO TAKE THE SLIT OFF THE SOUTH LIMB. THE PLATFORM IS THEN REPOSITIONED TO CONTINUE THE LIMB DRIFT WITH THE UVS CHANGING TO THE G CHANNEL AS THE SLIT CROSSES INTO DAYLIGHT IN THE FOLLOWING MINUTE. THE PPR MAY TAKE SOME PHOTOMETRIC DATA NEAR THE TERMINATOR.

CHANGE CONTROL

Version

1

Page

01 of 01

Submission date

10/17/88

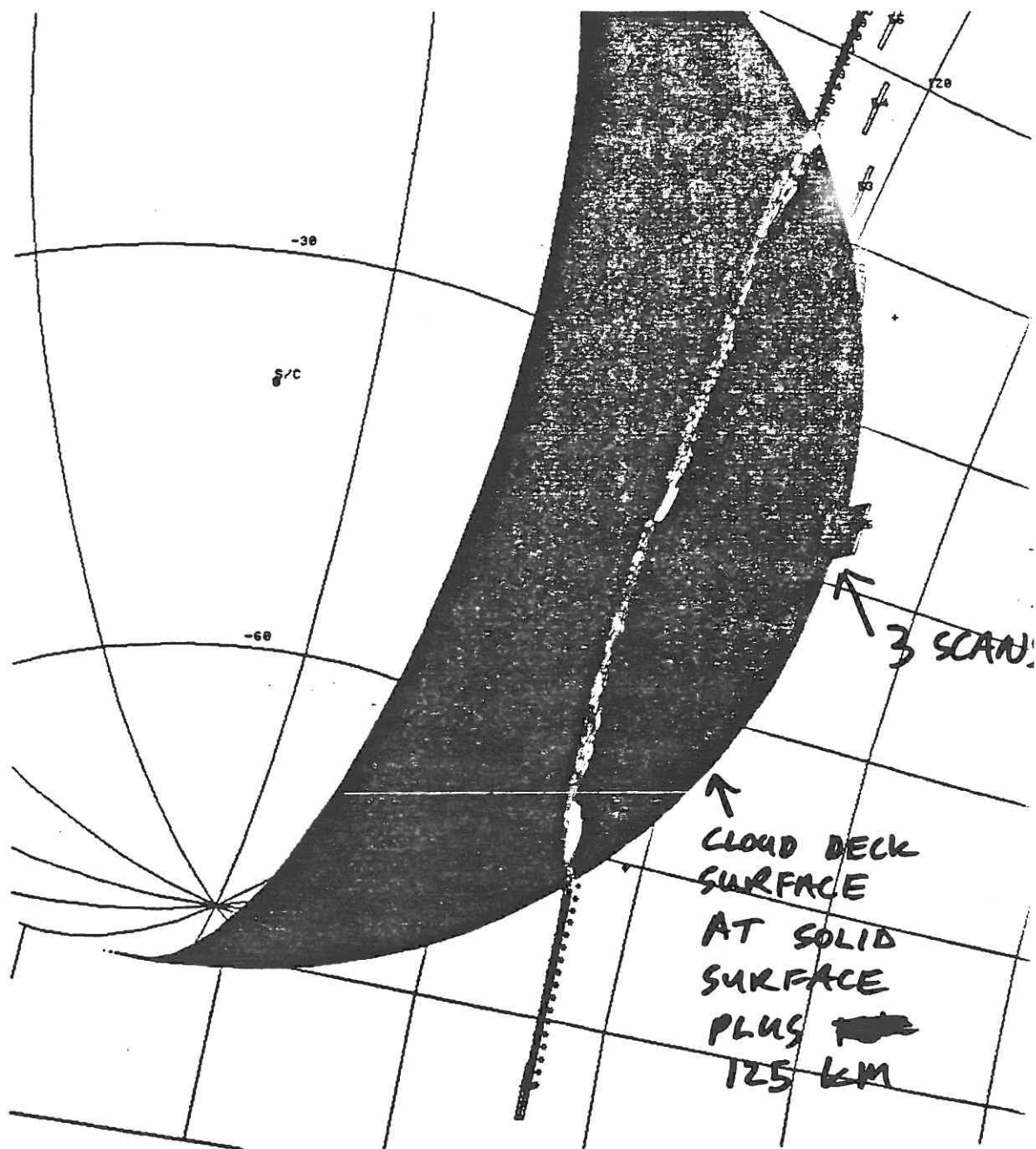
Change Date

/ /

Figure attached (Y/N) Y

Changed by

VLMBDF T1



START TIME: 90-039/21:21:20

Activity ID: ORBIT 00 TARGET: V OAPEL NEWS MULTI - SEQ NO 01

Title NORTH EAST WEST SOUTH MAP
Requestor B WAGGONER
Working Group AWG
Bottom Label
Plot Key RS3

GMT TIMING BLOCK

(YY-DDD/HH:MM:SS)
Start Time 90-039/21:21:20
End Time 90-039/22:06:20
Duration 000/00:45:00

AACS/DMS/DOWNLINK

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

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

OBSERVATION OBJECTIVE

THE NEWS OBSERVATION ALLOWS SAMPLING OF CLOUD TOP TEMPERATURES WITH THE NIMS AND PPR, DETERMINATION OF THE PLANETARY ENERGY BUDGET, AND MAPPING OF THE SPATIAL DISTRIBUTION OF SO₂, O₂, O, AND C IN AND ABOVE THE CLOUD DECK WITH THE UVS, PPR, AND NIMS.

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

A NORTH/SOUTH SCAN STRIP WILL BE EXECUTED AT 400 MICRORADIANS/SEC TO ALLOW THE PPR TO MAINTAIN NYQUIST SAMPLING. THE SOLAR AND THE SOLAR PLUS THERMAL CHANNELS WILL EACH TAKE FOUR SAMPLES PER CYCLE. THE ACTUAL TIME TO SCAN ACROSS THE PLANET IS TWENTY MINUTES. THE UVS MUST START AND END THE SCANS OFF THE LIMB OF THE PLANET. THE EAST WEST SCAN THAT FOLLOWS WILL ALSO BE AT THE 400 MICRORADIAN RATE. THIS SCAN WILL TAKE SIXTEEN MINUTES. THE UVS WILL USE G CHANNEL WITH CAREFULLY BUDGETTED USE OF THE F CHANNEL.

CHANGE CONTROL

Version 2
Submission date 10/14/88
Figure attached (Y/N) Y

Page 01 of 01
Change Date 10/14/88
Changed by B WAGGONER

$C^0 : C^{\infty}$
 $\hookrightarrow AIF$

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⁺, O, N⁺, N

START TIME: 90-039/19:44:20

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

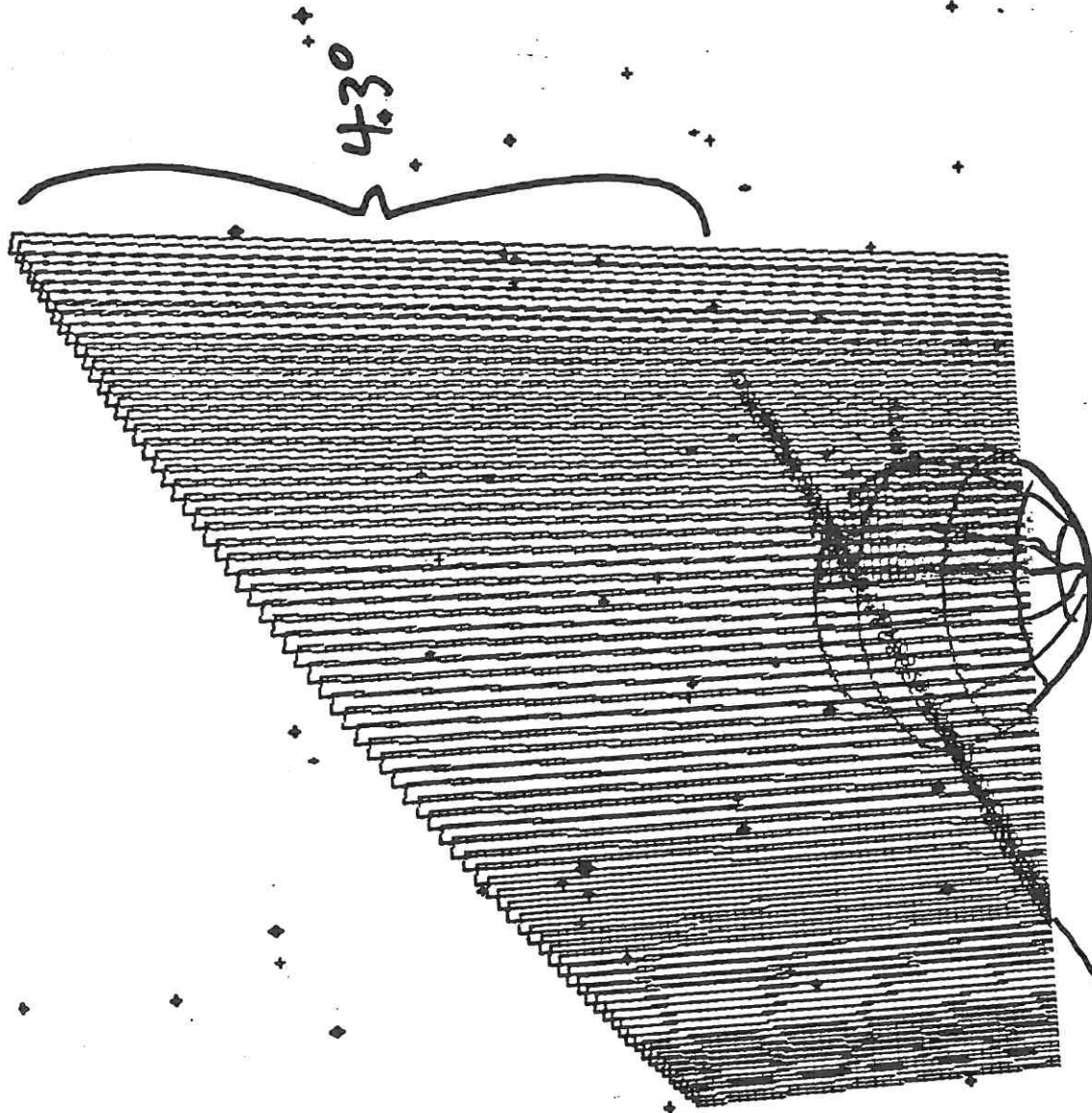
THE NUMBER OF SECTORS THE EUV WILL BE SAMPLING IS CURRENTLY UNDETERMINED. IF THE HIC SHOULD REQUIRE DATA DURING THIS PERIOD, THE UVS TEAM WOULD LIKE TO PRESERVE THE DAYLIT PORTION OF THE OBSERVATION. THE UVS WILL BE SAMPLING THIS SAME REGION WITH A TWELVE MINUTE DELAY FROM THE START OF THE EUV OBSERVATION.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

CHANGE CONTROL

Version 2
Submission date 10/13/88
Figure attached (Y/N) Y

Page 01 of 01
Change Date 10/13/88
Changed by B WAGGONER

VIEWOFT1



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