

Venus Express Radio Science Experiment - Science Operations Logbook

Commissioning 2005												
	orbit or pass number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
1	N/A		344	10/12/05	TVT	01:20:00	08:00:00	NNO		performed	0001	
2	N/A		345	11/12/05	UCT	01:15:00	08:00:00	NNO		performed	0002	
Commissioning 2006												
	Pass number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
3	60		007	7/1/06	UDT	03:30:00	06:05:00	NNO		performed	0003	
4	92		039	8/2/06	UDT	02:18:55	04:55:00	NNO		performed	0004	
5	120		067	8/3/06	UDT	01:30:16	04:10:00	NNO		performed	0005	
Commissioning 2006 after orbit insertion												
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
6	9		120/ 121	30/4/06	UCT 3	20:34:00	03:35:00	NNO		performed	0006	Pass-Nr. 174 timeline: 20:34 - 21:42 TWOS-X (from 21:08 - 21:42 TWOD-X)
7	14		125	5/5/06	UCT 4	20:41:00	04:20:00	NNO		performed	0007	Pass-Nr. 179 timeline: 20:41 - 22:00 TWOS-X (from 21:17 - 22:00 TWOD-X)

white: planned task

grey: status of operation? to be checked

yellow: task to be completed

green: task completed

dark red: task failed or cancelled after ESOC PTR

light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

8	15		126	6/5/06	TVT-2	20:42:00	04:20:00	NNO		performed	0008	Pass-Nr: 180 timeline: 20:42 - 21:57 TWOS-X 21:57 - 03:42 TWOD-X
9	16		127	7/5/06	TVT-3	20:44:00	04:22:00	NNO		performed	0009	Pass-Nr: 181 timeline: 20:44 - 21:19 TWOS-X 21:55 - 03:05 TWOD-S
10	32		143	23/5/06	BSR Comm			DSN		performed	0010	
11	37		148	28/5/06	GRV Comm	00:55:00	02:10:00	NNO		performed	0011	
12	49		160	9/6/06	OCC Comm	01:24:00	02:13:00	NNO		performed	0012	NN12 CL data recorded with wrong sampling rate! Data Volume OL: ~ 12.5 Gbyte
BSR												
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
13	55		166	15/6/06	BSR			DSN-43		performed	0013	
14	57		168	17/6/06	BSR			DSN-43		performed	0014	
15	59		170	19/6/06	BSR			DSN-43		performed	0015	
OCC 1												
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments

white: planned task
grey: status of operation? to be checked
yellow: task to be completed
green: task completed

dark red: task failed or cancelled after ESOC PTR
light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

16	81		192	11/7/06	OCC			NNO		performed (-)	0016	wrong AOS time by ESOC start, also problems by locking IFMS3 therefore NN13 D2 missing OPENLOOP data for NN12+13
17	84		195	14/7/06	OCC	01:20:30	01:47:10	NNO		performed	0017	problems with locking or different IFMS'S therefore various problems with closed loop files: Doppler Calibration files missing,
18	85		196	15/7/06	OCC	01:18:49 01:30:00	01:48:49 02:03:00	NNO		performed	0018	Doppler Calibration files missing NN11 G1 and NN13 G1 were stoped and restarted
19	87		198	17/7/06	OCC	01:15:50	01:49:30	NNO		performed (-)	0019	only lock on X-band; NN11 G1 was stoped and restarted Doppler Calibration files missing NN11 G2 was stoped and
20	89		200	19/7/06	OCC	01:13:09	01:50:39	NNO		successfully performed	0020	Doppler Calibration files missing,
21	91		202	21/7/06	OCC	01:11:00	01:51:50	NNO		successfully performed	0021	Doppler Calibration files missing,
22	93		204	23/7/06	OCC	01:09:09	01:52:59	NNO		successfully performed	0022	Doppler Calibration files missing
23	99		210	29/7/06	OCC	01:06:10	01:55:50	NNO		performed	0023	no closed loop files available
24	101		212	31/7/06	OCC	01:05:49	01:56:39	NNO		performed	0024	Doppler Calibration files missing NN12 AGC1 missing
25	105		216	4/8/06	OCC	01:06:29	01:58:19	NNO		unknown	0025	Doppler Calibration files missing, NN12 AGC1. AGC data on IFMS 2 missing due to misconfiguration of IFMS 2
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed

dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

26	107		218	6/8/06	OCC	01:07:29	01:58:59	NNO		successfully performed	0026	Doppler Calibration files missing,
27	109		220	8/8/06	OCC	01:08:49	01:59:49	NNO		successfully performed	0027	Doppler Calibration files missing;
28	112		223	11/8/06	OCC	01:11:39	02:00:49	NNO		successfully performed	0028	Doppler Calibration files missing
29	115		226	14/8/06	OCC			NNO		unknown	0029	Doppler Calibration files missing, NN13 D2 have sample rate of 0.1 instead of 1 per second
30	117		228	16/8/06	OCC			NNO		successfully performed	0030	Doppler Calibration files missing
31	120		231	19/8/06	OCC			NNO		successfully performed	0031	Doppler Calibration files missing
32	122		233	21/8/06	OCC	01:53:00	03:00:00	NNO		successfully performed	0032	Doppler Calibration files missing
33	123		234	22/8/06	OCC	01:56:00	03:05:00	NNO		successfully performed	0033	Doppler Calibration files missing
34	126		237	25/8/06	OCC			NNO		unknown	0034	no NNO closed loop files available
35	128		239	27/8/06	OCC	02:22:00	03:31:00	NNO		performed	0035	Doppler Calibration files missing NN12 AGC1 missing
36	131		242	30/8/06	OCC			NNO		unknown	0036	no closed loop files available

GRV 1

white: planned task

grey: status of operation? to be checked

yellow: task to be completed

green: task completed

dark red: task failed or cancelled after ESOC PTR

light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
37	134		245	2/9/06	GRV			NNO		cancelled	0037	cancelled due to resource conflict
38	135		246	3/9/06	GRV			NNO		failed	0038	failed due to station problem
39	140		251	8/9/06	GRV	03:12:00	04:02:00	NNO	Atalanta Planitia Coronae	successfully performed	0039	NN11 D1, D2 have time-stamp-error in L1-files, only processed until 3:21:59(D1) and 3:50:22(D2)
40	142		253	10/9/06	GRV	03:23:00	04:07:00	NNO	Atalanta Planitia Coronae	successfully performed	0040	
SCO												
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
41	171	344	281	8/10/06	SCO	21:46:00 22:28:00	01:44:00 01:35:00	DSS-43		performed	0041	information from mission Operation Report: DSS-43 (70 m Antenna)!!! (34 m Beam-waveguide Antenna was
42	173	346	283	10/10/06	SCO	21:43:00 22:23:01	01:49:00 01:44:00	DSS-43		performed	0042	information from mission Operation Report: DSS-43 (70 m Antenna)!!! (34 m Beam-waveguide Antenna was
43	175	348	285	12/10/06	SCO	21:41:00 21:03:00	01:54:00 23:59:00	DSS-43		performed	0043	information from mission Operation Report: DSS-43 (70 m Antenna)!!! (34 m Beam-waveguide Antenna was
44	177	350	287	14/10/06	SCO	21:39:00 22:20:01	01:59:00 01:54:00	DSS-43		performed	0044	Information on the used G/S missing (34 m Beam-waveguide Antenna was planned)
45	179		289	16/10/06	SCO	18:36:00	02:04:00	DSS-43 or DSS-14		cancelled	0045	34 m Beam-waveguide Antenna

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed
 dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

46	180	353	290	17/10/06	SCO	20:37:00 21:10:01	00:58:00 00:30:00	DSS-43		performed	0046	34 m Beam-waveguide Antenna
47	181	354	291	18/10/06	SCO	18:34:00 21:00:01	02:09:00 00:30:00	DSS-43		performed	0047	34 m Beam-waveguide Antenna
48	182	355	292	19/10/06	SCO	18:33:00 21:00:01	02:12:00 00:30:00	DSS-43		performed	0048	34 m Beam-waveguide Antenna
49	183	356	293	20/10/06	SCO	18:32:00 21:00:01	02:14:00 00:30:00	DSS-43		performed	0049	70 m Antenna; no S-Band signal was seen at either RCP or LCP
50	184	357	294	21/10/06	SCO	18:31:00 21:00:01	02:16:00 00:30:00	DSS-43		performed	0050	70 m Antenna
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
51	185	358	295	22/10/06	SCO	18:29:00 21:00:01	02:19:00 00:30:00	DSS-43		performed	0051	70 m Antenna
52	186		296	23/10/06	SCO	18:28:00	02:21:00	DSS-43 or DSS-14		cancelled	0052	70 m Antenna
53	187	360	297	24/10/06	SCO	21:06:00 21:40:01	01:27:58 01:00:00	DSS-43		performed	0053	70 m Antenna
54	188	361	298	25/10/06	SCO	20:07:00 20:39:01	00:28:01 00:00:00	DSS-43		performed	0054	
55	193		303	30/10/06	SCO	18:21:00	02:39:00	DSS-43 or DSS-14		cancelled	0055	70 m Antenna

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed
 dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

56	194	367	304	31/10/06	SCO	20:07:00 20:39:01	00:28:01 00:00:00	DSS-43		performed	0056	70 m Antenna
57	195		305	1/11/06	SCO	20:07:00	00:28:01	DSS-43 or DSS-14		cancelled	0057	70 m Antenna
58	196	369	306	2/11/06	SCO	20:07:00 20:38:37	00:28:02 23:59:36	DSS-43		performed	0058	70 m Antenna
59	197	370	307	3/11/06	SCO	20:07:00 21:29:31	00:58:02 00:29:30	DSS-45		performed	0059	70 m Antenna, DSS-43 was declared "red" at BOT and support was switched to DSS-45, which does not have the
60	198	371	308	4/11/06	SCO	20:07:01 20:39:01	00:28:01 23:59:00	DSS-43		performed	0060	34 m Beam-waveguide Antenna
61	199	372	309	5/11/06	SCO	20:07:01	00:28:01	DSS-43 or DSS-14		failed	0061	34 m Beam-waveguide Antenna, failed due to MGS
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
62	200		310	6/11/06	SCO	18:20:00	03:25:49	DSS-43 or DSS-14		failed	0062	34 m Beam-waveguide Antenna
63	201		311	7/11/06	SCO	18:20:00	03:28:54	DSS-43 or DSS-14		failed	0063	34 m Beam-waveguide Antenna
64	203		313	9/11/06	SCO	21:22:02	01:43:02	DSS-43		failed	0064	34 m Beam-waveguide Antenna, failed due to MGS
65	205	378	315	11/11/06	SCO	19:57:00 20:34:01	00:43:02 00:15:00	DSS-45		performed	0065	34 m Beam-waveguide Antenna, DSS-43 was relinquished to MGS due to ist onboard emergency, DSS-45, which does not have the

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed
 dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

66	207		317	13/11/06	SCO	21:16:00	03:42:57	DSS-43		failed	0066	34 m Beam-waveguide Antenna, failed due to MGS
67	209		319	15/11/06	SCO	18:15:00	03:48:00	DSS-43 or DSS-14		failed	0067	34 m Beam-waveguide Antenna, failed due to MGS
68	211		321	17/11/06	SCO	18:14:00	03:53:00	DSS-43 or DSS-14		failed	0068	34 m Beam-waveguide Antenna, failed due to MGS
69	213		323	19/11/06	SCO	18:16:00	03:57:00	DSS-43 or DSS-14		failed	0069	34 m Beam-waveguide Antenna, failed due to MGS
70	215	387	325	21/11/06	SCO	19:57:00 20:29:01	00:48:00 00:19:00	DSS-15		performed	0070	34 m Beam-waveguide Antenna
71	217	390	327	23/11/06	SCO	19:57:00 20:38:13	00:48:00 00:15:00	DSS-43		performed	0071	34 m Beam-waveguide Antenna
72	229	402	339	5/12/06	SCO	20:54:00 21:23:01	01:43:00 01:13:00	DSS-43		performed	0072	34 m Beam-waveguide Antenna
OCC 2												
	Orbit number	DSN tracking number	day of year	date	VeRa activity	start time (UT) planned/ actual	stop time (UT) planned/ actual	ground station	target; coordinates	performed? cancelled?	Volume-ID	remarks comments
71	230		341	7/12/06	OCC	07:05:00	08:22:00	NNO		performed (-)	0073	Complete trash from the DDS side. Packed file names are wrong, the original files are not reliable either. According to the header NN13 D2 managed to record at the same time files at a sample rate of 1 and files at a sample rate of 0.1. One

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed

dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR

Venus Express Radio Science Experiment - Science Operations Logbook

72	233		344	10/12/06	OCC	07:10:00 07:12:00	08:35:00 08:31:00	NNO		performed (-)	0074	nominal pass with no or poor S-band reception (email from Gary W.) Doppler Calibration files missing
73	236		347	13/12/06	OCC	07:15:00	08:45:00	NNO		performed	0075	only weak S-band (Gary W.); Calibration files missing; NN13 D1, NN12 D1 files missing
74	240		351	17/12/06	OCC	07:30:00 07:30:00	08:55:00 08:53:00	NNO		performed	0076	calibration files missing; NN13 D1, NN12 D1 files missing
75	241		352	18/12/06	OCC	07:30:00	09:00:00	NNO		performed	0077	calibration files missing; NN13 D1, NN12 D1 files missing
76	248		359	25/12/06	OCC	07:40:00	09:10:00	NNO		performed	0078	calibration files missing; NN13 D1, NN12 D1 files missing
77	250		361	27/12/06	OCC	07:40:00	09:05:00	NNO		failed	0079	no closed loop files on DDS; open loop data are available
78	254		365	31/12/06	OCC	07:35:00	09:05:00	NNO		performed	0080	calibration files missing; NN13 D1, NN12 D1 files missing

white: planned task
 grey: status of operation? to be checked
 yellow: task to be completed
 green: task completed

dark red: task failed or cancelled after ESOC PTR
 light red: task cancelled by ESOC PTR