

Table 1. Summary of TIDI Operational Modes

<i>Dates</i>	<i>Day Scan Table</i>	<i>Night Scan Table</i>	<i>Comments</i>
1/22 – 1/23	13000	13000	Gain 1 day, gain 4 night, standard binning table
1/24 – 2/13	11100	14100	2 orbits CCD images, 1/27, 2/1, 2/10-12
2/14 – 2/26	11200	14100	Gain 2 day, gain 4 night, 2 columns per bin, binning table size
2/27	11300	14300	Extended erase time test
2/28	11300	14300	Nominal erase time
3/1 – 3/2	11300	14300	S/C Safehold
3/3	11300	14300	Gain 2 Day, Gain 4 Night
3/4	11300	14300	2 orbits bias and inferred bias measurements
3/5	11300	14300	Gain 2 Day, Gain 4 Night
3/6 – 3/9	11300	14300	Gain 1 Day, Gain 4 Night
3/10	11300	14300	Minimum erase to 0.5 sec. From 0.175 sec.
3/11	11300	14300	Erase time to 0.175 sec
3/12 – 3/28	11300	14300	Normal Science, Yaw on 3/21
3/29	11300	14300	S/C Safehold, Gain Day 2 & Gain Night 3
3/30 – 3/31	11300	14300	Normal Science
4/1 – 4/4	11301	14300	Gain 2 Day, Gain 3 Night
4/5 – 4/9	11301	14300	Normal Science plus Sky viewing normalization test
4/9	12000	14300	Change to mid beta mode
4/10	12000	14301	Added pass through fiducial on filter wheel
4/10 – 5/4	12000	14301	Normal mid beta science
5/5 – 5/20	11302	14301	Normal Science
5/21 & 23	34fg1	14301	Normalization test
5/22	11302	14301	Yaw – normal Science

5/24 – 5/26			Data contaminated – upload of flight software v32 unsuccessful
5/27 – 5/31	12100/12200	14301	A few dayside orbits normal science, the rest with shutters closed due to S/C roll maneuver. Normal Nightside science
6/1-7/31	12100	14301	Normal mid beta science
7/15			Nightside scattering test
7/16, 20, 26			Normalization test
7/22-8/5	34fg1		Window Heater set to 100% duty cycle
8/6 – 8/31	12000	14301	Normal Mid Beta Science
8/2, 10, 16, 23	34fg1		Normalization test
9/1-10/5	12100	14301	Normal Low Beta Science
9/6, 13, 20, 26	34fg1		Normalization tests (3 orbits/day)
10/5 – 11/3	12000	14301	Normal Mid Beta Science
10/4, 11, 18, 25	34fg1		Normalization tests (3 orbits/day)
11/3 – 2/2/2003	12100	14301	Normal Low Beta Science
11/1, 8, 15, 22, 29	34fg1		Normalization tests (3 orbits/day)
12/6, 13, 20, 27	34fg1		Normalization tests (3 orbits/day)

Table 2. Scan Table Definitions

<i>Mode #</i>	<i>Type</i>	<i>Emissions</i>	<i>Altitude Range &amp; Intervals(km)</i>	<i>Integration Times (s)</i>
11100	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S), O( <sup>1</sup> D)	60-280 @2.5-20	1.0
11200	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S), O( <sup>1</sup> D)	60-280 @2.5-20	0.8
11300	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	55-180 @1.25-10	0.8
11301	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	55-180 @1.25-10	0.75
11302	Day	O <sub>2</sub> (0-0)P15, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	55-180 @1.25-10	0.75
12000	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	55-180 @1.5-10	1.0
12100	Day	O <sub>2</sub> (0-1)P7, O <sub>2</sub> (0-0)P15, O( <sup>1</sup> S)	60-180 @1.25-10	0.75
13000	Utility	O <sub>2</sub> (0-0)P9, O <sub>2</sub> (0-0)P15, O( <sup>1</sup> S)	80-200 @2.5-10	1.0
14100	Night	O <sub>2</sub> (0-0)P9, OH, O( <sup>1</sup> S)	80-120 @2.5-5	2.0-3.0
14300	Night	O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	80-120 @1.25-2.5	3.0
14301	Night	O <sub>2</sub> (0-0)P9, O( <sup>1</sup> S)	80-120 @1.25-2.5	3.0
34fg1	Day	<i>f</i> filter for filter wheel 1 & <i>g</i> filter for filter wheel 2	34fg1	Day