

Progress M1-4					SpaceCalc ISS Mission Planner
U.S. EST	DD	HH	MM	ISS- 1/Progress M1-4 Launch-To-Docking Timeline	
11/15/00 08:33 PM	00	00	00	Launch of Progress M1-4	
11/15/00 08:42 PM	00	00	09	Third stage cutoff; Progress separation; solar array deploy; antenna deploy	
11/16/00 12:07 AM	00	03	34	BNS DV1	
11/16/00 12:48 AM	00	04	15	BNS DV2	
11/16/00 09:31 PM	01	00	58	BNS DV3	
11/17/00 06:57 PM	01	22	24	ISS maneuvers to docking orientation	
11/17/00 07:08 PM	01	22	35	ISS in docking orientation	
11/17/00 07:14 PM	01	22	41	Sunset	
11/17/00 07:30 PM	01	22	57	TDRS-E acquisition of signal (AOS)	
11/17/00 07:38 PM	01	23	05	AR&D (automatic rendezvous and docking) sequence begins	
11/17/00 07:52 PM	01	23	19	Sunset	
11/17/00 07:59 PM	01	23	26	AR&D DV4 impulse No. 1	
11/17/00 08:08 PM	01	23	35	AR&D Progress EOAN-A activation	
11/17/00 08:09 PM	01	23	36	DO1 node	
11/17/00 08:21 PM	01	23	48	AR&D impulse No. 2	
11/17/00 08:21 PM	01	23	48	First Russian ground station acquisition of signal (DJS-21, 25)	
11/17/00 08:27 PM	01	23	54	TDRS-E LOS	
11/17/00 08:31 PM	01	23	58	TDRS-W AOS	
11/17/00 08:27 PM	01	23	54	Sunrise	
11/17/00 08:44 PM	02	00	11	Last Russian ground station LOS (USK-35)	
11/17/00 08:45 PM	02	00	12	AR&D impulse No. 3	
11/17/00 09:09 PM	02	00	36	TDRS-E AOS	
11/17/00 09:24 PM	02	00	51	Sunset	
11/17/00 09:25 PM	02	00	52	TDRS-W LOW	
11/17/00 09:28 PM	02	00	55	AR&D ballistic targeting point (DOA)	

11/17/00	09:28 PM	02	00	55	AR&D impulse No. 4
11/17/00	09:35 PM	02	01	02	AR&D impulse No. 5
11/17/00	09:37 PM	02	01	04	AR&D impulse No. 6
11/17/00	09:38 PM	02	01	05	AR&D flyaround mode start
11/17/00	09:41 PM	02	01	08	DO2 node
11/17/00	09:43 PM	02	01	10	TDRS-Z AOS
11/17/00	09:47 PM	02	01	14	AR&D stationkeeping starts
11/17/00	09:57 PM	02	01	24	First ground station AOS (SHK-34)
11/17/00	09:58 PM	02	01	25	AR&D final approach begins
11/17/00	09:59 PM	02	01	26	Sunrise
11/17/00	10:04 PM	02	01	31	TDRS-E LOS
11/17/00	10:07 PM	02	01	34	Progress docks with international space station
11/17/00	10:07 PM	02	01	34	TDRS-W AOS
11/17/00	10:14 PM	02	01	41	Last ground station LOS (USK-35)
11/17/00	10:57 PM	02	02	24	Sunset

Compiled by William Harwood for Spaceflight Now