Soyuz 9S Undocking

Qualify

Soyuz Undocking

Notes:
The return to Earth of the Soyuz TMA-5/9S with Leroy Chiao, Salizhan Sharipov & Roberto Vittori proceeded along the following GMT sequence on 24-Apr-2005:

15:15 ISS attitude handover to RS and maneuver to 9S undocking attitude (11:15am EDT)
18:37 ISS in free drift (2:37pm EDT)
18:39 Hooks open command (2:39pm EDT)
18:44 Separation springs action; delta-V ~0.12 m/sec (2:44pm EDT)
18:45 Separation burn; 8 sec, ~0.29 m/sec (2:45pm EDT)
21:16 De-orbit burn; delta-V 115.2 m/sec (5:16pm EDT)
21:41 Tri-module separation; 140.1 km (5:41pm EDT)
21:44 Atmospheric entry; 101.8 km, ~170 m/sec (5:44pm EDT)
21:53 Parachute deploy command (5:53pm EDT)
21:55 ISS attitude control handed back to US (5:55pm EDT)
22:08 9S landing; nominally (6:08pm EDT)

The return to Earth of the Soyuz TMA-5/9S with Leroy Chiao, Salizhan Sharipov & Roberto Vittori proceeded along the following GMT sequence on 24-Apr-2005:

15:15 ISS attitude handover to RS and maneuver to 9S undocking attitude (11:15am EDT)
18:37 ISS in free drift (2:37pm EDT)
18:39 Hooks open command (2:39pm EDT)
18:44 Separation springs action; delta-V ~0.12 m/sec (2:44pm EDT)
18:45 Separation burn; 8 sec, ~0.29 m/sec (2:45pm EDT)
21:16 De-orbit burn; delta-V 115.2 m/sec (5:16pm EDT)
21:41 Tri-module separation; 140.1 km (5:41pm EDT)
21:44 Atmospheric entry; 101.8 km, ~170 m/sec (5:44pm EDT)
21:53 Parachute deploy command (5:53pm EDT)
21:55 ISS attitude control handed back to US (5:55pm EDT)
22:08 9S landing; nominally (6:08pm EDT)