

AR&D Data based on Russian input. Lighting and AOS/LSO data based on TOPO ephemeris.

2P Prime Orbit, Nominal Approach

GMT Docking = PET Base: 361/11:02:08

11:02:08

Within Russian Ground Sites		Nominal Vector Used				
Daylight/Darkness	Event	PET d/hh:mm:ss	MET d/hh:mm:ss	GMT ddd/hh:mm:ss	Houston hh:mm:ss	DMT d/hh:mm:ss
	Crew Wake Up	-0/05:02:08	40/04:27:24	361/06:00:00	0:00:00	361/09:00:00
	Start S-Band Coverage	-0/03:32:08	40/05:57:24	361/07:30:00	1:30:00	361/10:30:00
	Sunset	-0/03:00:47	40/06:28:45	361/08:01:21	2:01:21	361/11:01:21
	TDRS-E (047) AOS	-0/02:40:10	40/06:49:22	361/08:21:58	2:21:58	361/11:21:58
	AR&D Automated Rendezvous start (T0)	-0/02:28:11	40/07:01:21	361/08:33:57	2:33:57	361/11:33:57
	Sunrise	-0/02:27:35	40/07:01:57	361/08:34:33	2:34:33	361/11:34:33
	TDRS-Z (275) AOS	-0/02:09:47	40/07:19:45	361/08:52:21	2:52:21	361/11:52:21
	<b>AR&amp;D DV4 / Impulse 1</b>	<b>-0/02:07:37</b>	<b>40/07:21:55</b>	<b>361/08:54:31</b>	<b>2:54:31</b>	<b>361/11:54:31</b>
	AR&D Progress Éõññ-À activation (T1)	-0/01:58:11	40/07:31:21	361/09:03:57	3:03:57	361/12:03:57
	DO1 Node	-0/01:58:00	40/07:31:32	361/09:04:08	3:04:08	361/12:04:08
	1st GS (DJS-21.25) AOS	-0/01:46:06	40/07:43:26	361/09:16:02	3:16:02	361/12:16:02
	<b>AR&amp;D Impulse 2</b>	<b>-0/01:44:26</b>	<b>40/07:45:06</b>	<b>361/09:17:42</b>	<b>3:17:42</b>	<b>361/12:17:42</b>
	TDRS-E (047) LOS	-0/01:42:17	40/07:47:15	361/09:19:51	3:19:51	361/12:19:51
	TDRS-W (171) AOS	-0/01:37:22	40/07:52:10	361/09:24:46	3:24:46	361/12:24:46
	<b>AR&amp;D DV5 / Impulse 3</b>	<b>-0/01:32:35</b>	<b>40/07:56:57</b>	<b>361/09:29:33</b>	<b>3:29:33</b>	<b>361/12:29:33</b>
	Sunset	-0/01:28:50	40/08:00:42	361/09:33:18	3:33:18	361/12:33:18
	Last GS (USK-35) LOS	-0/01:23:21	40/08:06:11	361/09:38:47	3:38:47	361/12:38:47
	TDRS-Z (275) LOS	-0/01:09:52	40/08:19:40	361/09:52:16	3:52:16	361/12:52:16
	TDRS-E (047) AOS	-0/01:00:20	40/08:29:12	361/10:01:48	4:01:48	361/13:01:48
	Sunrise	-0/00:55:39	40/08:33:53	361/10:06:29	4:06:29	361/13:06:29
	TDRS-W (171) LOS	-0/00:43:53	40/08:45:39	361/10:18:15	4:18:15	361/13:18:15
	<b>AR&amp;D Impulse 4</b>	<b>-0/00:43:49</b>	<b>40/08:45:43</b>	<b>361/10:18:19</b>	<b>4:18:19</b>	<b>361/13:18:19</b>
	AR&D Ballistic Targeting Point [ÐÓÀ]	-0/00:38:11	40/08:51:21	361/10:23:57	4:23:57	361/13:23:57
	<b>AR&amp;D Impulse 5</b>	<b>-0/00:37:27</b>	<b>40/08:52:05</b>	<b>361/10:24:41</b>	<b>4:24:41</b>	<b>361/13:24:41</b>
	<b>AR&amp;D Impulse 6</b>	<b>-0/00:35:16</b>	<b>40/08:54:16</b>	<b>361/10:26:52</b>	<b>4:26:52</b>	<b>361/13:26:52</b>
	AR&D Flyaround mode start	-0/00:34:25	40/08:55:07	361/10:27:43	4:27:43	361/13:27:43
	TDRS-Z (275) AOS	-0/00:28:07	40/09:01:25	361/10:34:01	4:34:01	361/13:34:01
	DO2 Node	-0/00:26:07	40/09:03:25	361/10:36:01	4:36:01	361/13:36:01
	AR&D Stationkeeping start	-0/00:25:25	40/09:04:07	361/10:36:43	4:36:43	361/13:36:43
	1st GS (SHK-34) AOS	-0/00:12:48	40/09:16:44	361/10:49:20	4:49:20	361/13:49:20
	AR&D Final approach start	-0/00:09:00	40/09:20:32	361/10:53:08	4:53:08	361/13:53:08
	TDRS-E (047) LOS	-0/00:05:27	40/09:24:05	361/10:56:41	4:56:41	361/13:56:41
	TDRS-W (171) AOS	-0/00:01:36	40/09:27:56	361/11:00:32	5:00:32	361/14:00:32
	<b>Nominal Docking</b>	<b>+0/00:00:00</b>	<b>40/09:29:32</b>	<b>361/11:02:08</b>	<b>5:02:08</b>	<b>361/14:02:08</b>
	Sunset	+0/00:03:11	40/09:32:43	361/11:05:19	5:05:19	361/14:05:19
	Last GS (USK-35) LOS	+0/00:11:29	40/09:41:01	361/11:13:37	5:13:37	361/14:13:37
	TDRS-Z (275) LOS	+0/00:31:44	40/10:01:16	361/11:33:52	5:33:52	361/14:33:52
	Sunrise	+0/00:36:16	40/10:05:48	361/11:38:24	5:38:24	361/14:38:24
	TDRS-E (047) AOS	+0/00:36:48	40/10:06:20	361/11:38:56	5:38:56	361/14:38:56
	TDRS-W (171) LOS	+0/00:52:56	40/10:22:28	361/11:55:04	5:55:04	361/14:55:04

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Vector Used: Nominal

