

#	PCBM Element	Time Frame	On-orbit CBM Berth	Permanent Delivery	Logistics	Element Mass (lbm)	ACBM Element	Orientation During Berth	Approx. Base Mass (lbm)	Post-mate Mass (lbm)	Mass Ratio (A/P)	Notes	Sources
1	PMA-1	09/1998	0	1	0	3504	Node 1	Aft				Factory Mate	NP-2015-05-022-JSC
2	PMA-2	09/1998	0	1	0	3033	Node 1	Forward				Factory Mate	NP-2015-05-022-JSC
3	FGB Zarya	11/1998	0	1	0	55045						First Launch	NP-2015-05-022-JSC
4	Node 1 (Unity)	12/1998	0	1	0	26225				88000		APAS Mate	NP-2015-05-022-JSC
5	Service Module	07/2000	0	1	0	54242				142000		APAS Mate	NP-2015-05-022-JSC
6	Z1	10/2000	1	1	0	19611	Node 1	Zenith	142000	162000	7		NP-2015-05-022-JSC
7	PMA-3	10/2000	1	1	0	5607	Node 1	Nadir	162000	168000	29		NP-2015-05-022-JSC
8	PMA-2	02/2001	1	0	0	3033	US Lab	Forward	165000	168000	54		NP-2015-05-022-JSC
9	U.S. Lab (Destiny)	02/2001	1	1	0	32000	Node 1	Forward	168000	200000	5		NP-2015-05-022-JSC
10	PMA-3	03/2001	1	0	0	5607	Node 1	Port	194000	200000	35		NP-2015-05-022-JSC
11	MPLM (STS-102)	03/2001	1	0	1	22877	Node 1	Nadir	200000	200000	9		NP-2015-05-022-JSC
12	MPLM (STS-100)	04/2001	1	0	1	19737	Node 1	Nadir	200000	200000	10		NP-2015-05-022-JSC
13	Airlock (Quest)	06/2001	1	1	0	21877	Node 1	Starboard	200000	222000	9		NP-2015-05-022-JSC
14	MPLM (STS-105)	08/2001	1	0	1	21206	Node 1	Nadir	222000	222000	10		NP-2015-05-022-JSC
15	Russian Docking Compartment & Airlock	09/2001	0	1	0	8461				230000		APAS Mate	NP-2015-05-022-JSC
16	MPLM (STS-108)	12/2001	1	0	1	20671	Node 1	Nadir	230000	230000	11		NP-2015-05-022-JSC
17	MPLM (STS-111)	06/2002	1	0	1	24087	Node 1	Nadir	230000	230000	10		NP-2015-05-022-JSC
18	MPLM (STS-114)	07/2005	1	0	1	18594	Node 1	Nadir	230000	230000	12		NP-2015-05-022-JSC
19	MPLM (STS-121)	06/2006	1	0	1	21477	Node 1	Nadir	230000	230000	11		NP-2015-05-022-JSC
20	PMA-3	08/2007	1	0	0	5607	Node 1	Nadir	224000	230000	40	Intermittent faults while unbolting	NP-2015-05-022-JSC; http://www.nasa.gov/mission_pages/station/expeditions/expedition15/pma3move.html
21	Node 2 (Harmony)	10/2007	1	1	0	32599	Node 1	Port	230000	263000	7		http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts120/mission_overview.html
22	PMA-2	11/2007	1	0	0	3033	Node 2	Starboard	260000	263000	86		NP-2015-05-022-JSC
23	Node 2 (Harmony) + PMA-2	11/2007	1	0	0	35632	US Lab	Forward	227000	263000	6		NP-2015-05-022-JSC
24	European Research Laboratory (Columbus)	02/2008	1	1	0	22700	Node 2	Starboard	263000	286000	12		NP-2015-05-022-JSC
25	ELM-PS	03/2008	1	1	0	9260	Node 2	Zenith	286000	295000	31		NP-2015-05-022-JSC
26	Japanese Experiment Module (Kibo)	05/2008	1	1	0	35050	Node 2	Port	295000	330000	8		NP-2015-05-022-JSC
27	ELM-PS	05/2008	1	1	0	9260	JEM	Zenith	330000	339000	36		NP-2015-05-022-JSC
28	MPLM (STS-126)	11/2008	1	0	1	28556	Node 2	Nadir	339000	339000	12		NP-2015-05-022-JSC; http://www.nasaspaceflight.com/2008/11/mplm-attached-et-129-extremely-clean/
29	PMA-3	08/2009	1	0	0	5607	Node 1	Port	333000	339000	59		NP-2015-05-022-JSC
30	MPLM (STS-128)	08/2009	1	0	1	28226	Node 2	Nadir	339000	339000	12	Bolt 4-1, Node 2 Nadir: high torque on berth, jammed on deberth (replaced IVA)	NP-2015-05-022-JSC; http://www.nasaspaceflight.com/2009/09/sts-128-high-praise-for-iss-visit-as-discovery-is-checked-out-for-entry/
31	ISS-HTV1	09/2009	1	0	1	33500	Node 2	Nadir	339000	339000	10		NP-2015-05-022-JSC; http://spaceflightnow.com/h2b/htv1/091101reentry
32	MRM-2	11/2009	0	1	0	8367				347000		APAS Mate	NP-2015-05-022-JSC
33	PMA-3	01/2010	1	0	0	5607	Node 2	Zenith	341000	347000	61		NP-2015-05-022-JSC
34	Node 3 (Tranquility) + Cupola (STS-130)	02/2010	1	1	0	43801	Node 1	Port	347000	391000	8	Multiple bolt jams during Cupola deberth	NP-2015-05-022-JSC; NASA JSC: The International Space Station – Operating an Outpost in the New Frontier (Ch. 4) (http://www.nasa.gov/sites/default/files/atoms/files/iss-operating_an_outpost-tagged.pdf)
35	PMA-3	02/2010	1	0	0	5607	Node 3	Port	385000	391000	69		NP-2015-05-022-JSC
36	Cupola	02/2010	1	1	0	4136	Node 3	Nadir	391000	395000	95		NP-2015-05-022-JSC
37	MPLM (STS-131)	04/2010	1	0	1	27711	Node 2	Nadir	395000	395000	14		NP-2015-05-022-JSC; http://spaceflightnow.com/shuttle/sts131/100407fd4/index3.html
38	MRM-1	05/2010	0	1	0	11188				406000		APAS Mate	NP-2015-05-022-JSC
39	ISS-HTV2	01/2011	1	0	1	34500	Node 2	Nadir	406000	406000	12		NP-2015-05-022-JSC; http://spaceflightnow.com/h2b/htv2/110329entry/
40	PMM	02/2011	1	1	0	22167	Node 1	Nadir	406000	428000	18		NP-2015-05-022-JSC
41	MPLM (STS-135)	07/2011	1	0	1	21280	Node 2	Nadir	428000	428000	20		NP-2015-05-022-JSC
42	ISS-SpX-D	05/2012	1	0	1	10700	Node 1	Nadir	428000	428000	40		NP-2015-05-022-JSC; http://www.nasa.gov/home/hqnews/2012/may/HQ_12-172_SpaceX_Dragon_Berth.html

43	ISS-HTV3	06/2012	1	0	1	33000	Node 2	Nadir	428000	428000	13	Loss of Comms on Node 2 Nadir CBM	NP-2015-05-022-JSC; http://www.nasa.gov/mission_pages/station/expeditions/expedition32/htv3_berth.html ; http://www.nasaspacesflight.com/2012/05/spacexs-dragon-historic-attempt-berth-with-iss
44	ISS-SpX-1	10/2012	1	0	1	10182	Node 2	Nadir	428000	428000	42		NP-2015-05-022-JSC; http://spaceflightnow.com/falcon9/004/121010arrival/
45	ISS-SpX-2	03/2013	1	0	1	11280	Node 2	Nadir	428000	428000	38		NP-2015-05-022-JSC; http://www.nasa.gov/pdf/729030main_spacex_2_cargo_manifest.pdf
46	ISS-HTV4	08/2013	1	0	1	33200	Node 2	Nadir	428000	428000	13		NP-2015-05-022-JSC; http://spaceflightnow.com/h2b/htv4/130809arrival/#.UgVTo8u9KK0
47	ISS-Orb-D1	09/2013	1	0	1	9043	Node 2	Nadir	428000	428000	47		NP-2015-05-022-JSC; http://spaceflightnow.com/antares/cots1/launchmanifest.html
48	ISS-Orb-1	01/2014	1	0	1	10280	Node 2	Nadir	428000	428000	42		NP-2015-05-022-JSC; http://www.nasa.gov/mission_pages/station/structure/launch/orbital.html
49	ISS-SpX-3	04/2014	1	0	1	14300	Node 2	Nadir	428000	428000	30		NP-2015-05-022-JSC; http://www.nasa.gov/content/dragon-delivers-science-station-supplies
50	ISS-Orb-2	07/2014	1	0	1	10793	Node 2	Nadir	428000	428000	40		NP-2015-05-022-JSC; http://www.nasa.gov/sites/default/files/files/Orb2_PRESS_KIT.pdf
51	ISS-SpX-4	09/2014	1	0	1	14300	Node 2	Nadir	428000	428000	30		NP-2015-05-022-JSC; http://www.nasa.gov/press/2014/september/nasa-cargo-launches-to-space-station-aboard-spacex-resupply-mission-0
52	ISS-SpX-5	01/2015	1	0	1	14300	Node 2	Nadir	428000	428000	30		NP-2015-05-022-JSC; http://blogs.nasa.gov/spacestation/2015/01/12/dragon-attached-to-harmony-module/ ; http://blogs.nasa.gov/spacestation/2015/01/09/dragon-readied-for-launch-european-ship-prepped-for-departure/
53	ISS-SpX-6	04/2015	1	0	1	13600	Node 2	Nadir	428000	428000	31		NP-2015-05-022-JSC; http://blogs.nasa.gov/spacestation/2015/04/17/dragon-attached-to-stations-harmony-module/
54	HTV-5	08/2015	1	0	1	34000	Node 2	Nadir	428000	428000	13		http://blogs.nasa.gov/spacestation/2015/08/24/japans-cargo-ship-installed-on-station/
55	OA-4	12/2015	1	0	1	15270	Node 1	Nadir	428000	428000	28		http://blogs.nasa.gov/spacestation/2015/12/09/cygnus-attached-to-station-ready-for-business/
56	OA-6	03/2016	1	0	1	15970	Node 1	Nadir	428000	428000	27		http://blogs.nasa.gov/spacestation/2016/03/26/cygnus-installed-to-stations-unity-module/
57	ISS-SpX-8	04/2016	1	0	1	16300	Node 2	Nadir	428000	428000	26		http://blogs.nasa.gov/spacestation/2016/04/10/spacex-dragon-mated-to-harmony/
58	BEAM	04/2016	1	1	0	3000	Node 3	Aft	428000	431000	143		http://blogs.nasa.gov/spacestation/2016/04/16/beam-successfully-installed-to-the-international-space-station/ ; http://www.nasa.gov/sites/default/files/atoms/files/2016-march-beam-factsheet-508.pdf
59	ISS-SpX-9	07/2016	1	0	1	14300	Node 2	Nadir	431000	431000	30		http://blogs.nasa.gov/spacestation/2016/07/20/dragon-attached-to-stations-harmony-module-2/
60	OA-5	10/2016	1	0	1	13270	Node 1	Nadir	431000	431000	32		http://blogs.nasa.gov/spacestation/2016/10/23/cygnus-attached-to-stations-unity-module/
61	HTV-6	12/2016	1	0	1	35000	Node 2	Nadir	431000	431000	12		http://blogs.nasa.gov/spacestation/2016/12/13/japans-white-stork-spacecraft-installed-on-station/
62	ISS-SpX-10	02/2017	1	0	1	14800	Node 2	Nadir	431000	431000	29		http://blogs.nasa.gov/spacestation/2017/02/23/dragon-attached-to-stations-harmony-module-3/
63	PMA-3	03/2017	1	0	0	5607	Node 2	Zenith	425000	431000	76		NP-2015-05-022-JSC
64	OA-7	04/2017	1	0	1	15870	Node 1	Nadir	431000	431000	27		http://blogs.nasa.gov/spacestation/2017/04/22/cygnus-bolting-to-station-for-three-months/
65	ISS-SpX-11	06/2017	1	0	1	15270	Node 2	Nadir	431000	431000	28		http://blogs.nasa.gov/spacestation/2017/06/05/dragon-attached-to-station-for-cargo-transfers/ ; http://www.nasa.gov/sites/default/files/atoms/files/spacex_crs-11_mission_overview.pdf
66	ISS-SpX-12	08/2017	1	0	1	15700	Node 2	Nadir	431000	431000	27		http://blogs.nasa.gov/spacestation/2017/08/16/dragon-installed-to-station-for-month-of-cargo-swaps/
67	OA-8E	11/2017	1	0	1	15670	Node 1	Nadir	431000	431000	28		http://blogs.nasa.gov/spacestation/2017/11/14/robotic-arm-reaches-out-and-grapples-cygnus/ ; http://www.nasa.gov/feature/wallops/2017/nasa-tv-coverage-set-for-antares-launch-to-the-international-space-station
68	ISS-SpX-13	12/2017	1	0	1	14100	Node 2	Nadir	431000	431000	31		http://blogs.nasa.gov/spacestation/2017/12/17/dragon-attached-to-station-for-month-of-cargo-transfers/
69	ISS-SpX-14	04/2018	1	0	1	15200	Node 2	Nadir	431000	431000	28		http://blogs.nasa.gov/spacestation/2018/04/04/dragon-bolting-to-stations-harmony-module/
70	OA-9E	05/2018	1	0	1	15670	Node 1	Nadir	431000	431000	28		http://blogs.nasa.gov/spacestation/2018/05/24/robotics-controllers-install-cygnus-resupply-ship-on-station/
71	ISS-SpX-15	06/2018	1	0	1	15200	Node 2	Nadir	431000	431000	28		http://blogs.nasa.gov/spacestation/2018/07/02/dragon-capture-confirmed-over-canada/ ; http://blogs.nasa.gov/spacestation/2018/07/02/dragon-now-installed-to-station-for-month-long-stay/
72	HTV-7	09/2018	1	0	1	36000	Node 2	Nadir	431000	431000	12		http://blogs.nasa.gov/spacestation/2018/09/27/japans-kounotori-spaceship-attached-to-station/