Version Rev. 36 11/17/2004

Microgravity Fluid Physics-Based Exploration Research Projects ISS Traffic Model

Based on post-STS-107 and RTF schedules; POP-04 launch manifest assumptions

TOTAL thru FY10	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
Strategic Exploration Research												
Advanced Life Support							FIR 12/04 UF-3	1. AHLS-1 Packed Bed Reactor PBR PIs TBD	1. TΦFFy Flow Boiling/ Phase Sep PIs TBD			
Multiphase Flow Technologies							1. 94NRA-1 CVB LMM-1 / 5/05 Wayner					
In-Situ Fabrication and Repair									2. AHLS-2 CHESS Moisture Removal - Air PIs TBD			
Advanced EVA							LMM Available for Bio work					
Human Health/Bio												
Fundamental Research												
Soft Condensed Matter Physics												
FIR 4												
MSG 11		MSG UF-2 6/02; 1. UF-2 6/02 InSPACE / GI - Gast	1. 92NRA 6/03 CSLM-2 / Voorhees (Engineering Runs)	MWA 1. CFE / MWA 8/03 12/04 13P, TBD Weislogel; 2. InSPACE-2 ATV-1 01/05 GI - Gast	1. 92NRA 6/03 CSLM-2 / Voorhees	1. 12/04 SHERE / GI - McKinley; BXF Available in FY06	BXF 07/05; 2. 98NRA-7 MABE / Kim; 3. 94NRA-3 NPBX /Dhir; 4. LME Liquid Mgmt Expt PIs TBD	2. 94NRA-7 CCF-1/Dreyer (DLR hardware); 3. 94NRA-4 FOAM / Durian (ESA hardware)	3. CCF-2/TBD (DLR hardware)			
Other 2	EXPRESS 1. 91NRA-2 6A 4/01 PCS / Weitz-1			MWA 3. BCAT-3 13P 8/03 Weitz								

Project	Upmass (Kg) (Unpacked)	Upmass (Kg) (Packed)
CFE (5 units)	8	10.2
InSPACE-2	2.57	3.57
CSLM-2 (12)	81.4	~90
SHERE	35.4	~40
CVB/LMM	164	262
BXF	98.6	~104
LME	~100	TBD
PBR	~150	TBD
CCF	~60	TBD
FOAM	~125	TBD
TΦFFy	~150	~175, TBD
CHESS	~150	TBD

FHA dates are given for each investigation.

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
Flights/year	1	1	0	3	1	1	4	3	3	0	0	0
TOTAL 17												