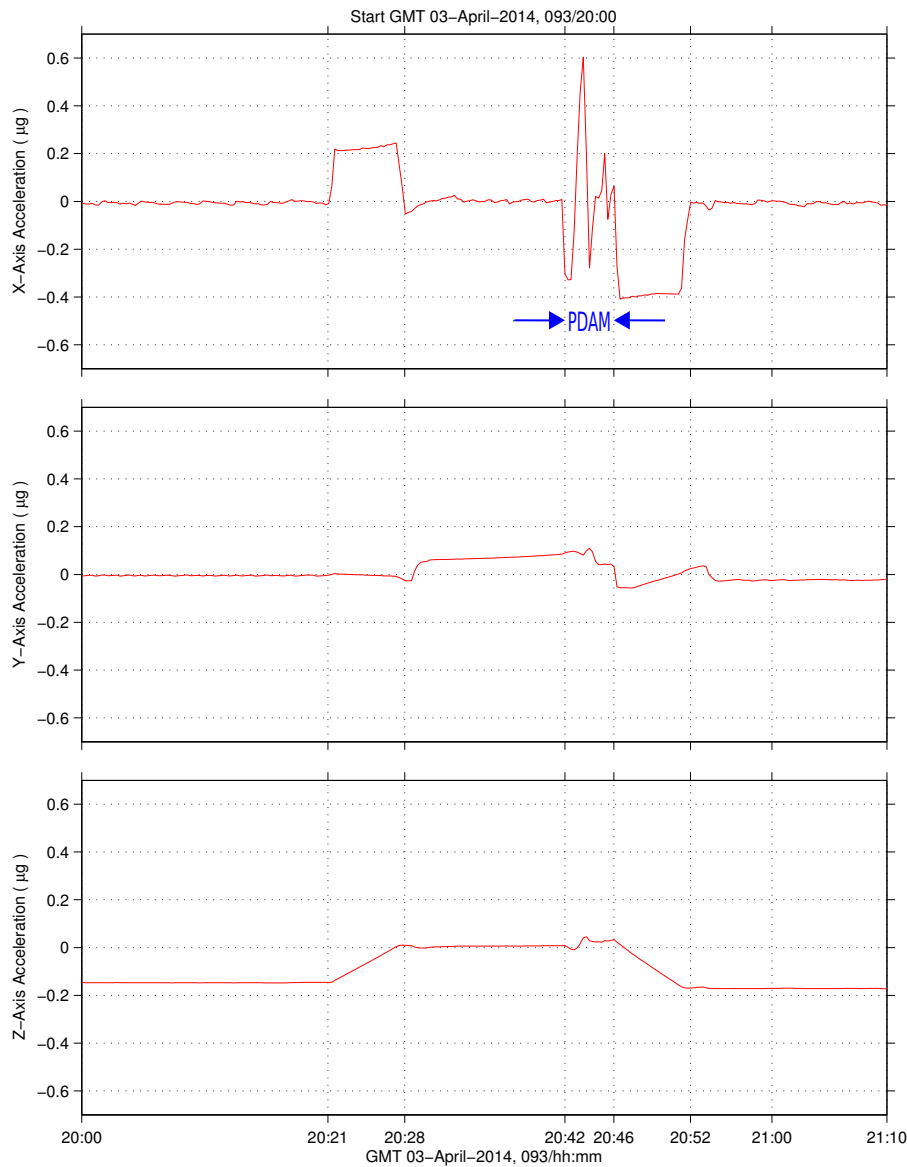


Aft Progress PDAM Quantify

iss_rad_rdgse at LAB102, ER1, Lockers 3,4:[135.28 -10.68 132.12]
0.0625 sa/sec (1.00 Hz)

Quasi-steady Roadmap
Red Traces from ISS Rates/Angles Data

SSAnalysis[0.0 0.0 0.0]



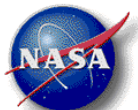
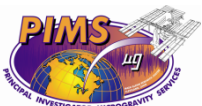
Description

Sensor	ISS radgse 0.0625 sa/sec, 1.0 Hz
Location	ISS radgse PAD archive support
Plot Type	Acceleration vs. Time

Notes:

- This 3-panel plot of XYZ acceleration versus time shows the debris avoidance maneuver here with time-of-ignition (TIG) at GMT 20:42 and duration of 3 minutes, 57 seconds .
- The blue arrows and annotation mark the span of this **Pre-Determined Debris Avoidance Maneuver (PDAM)** using a Progress vehicle on the aft end of the Russian Service Module (SM).

Regime:	Vibratory
Category:	Vehicle
Source:	Aft Progress PDAM



Aft Progress PDAM Ancillary Notes

The day before this microgravity event, ground teams received updated tracking data for a possible conjunction with Object #35758. The conjunction is of high safety concern and ground controllers tracked it to ultimately make the decision to perform a debris avoidance maneuver. Indeed, a Pre-Determined Debris Avoidance Maneuver (PDAM) was executed on GMT 03-Apr-2014 at approximately 20:42 utilizing a Progress vehicle on the aft end of the Russian Service Module (SM). Details from the as-flown timeline are shown in the table below:

AFT PROG SM8.07 PDAM Prog Roll (M14_093_B_02.UAF)						4/3/2014
36	093/19:22	+XVV	356	MMT	Handover US to RS	
	—	+ZLV	357.4	THR		
		TEA	0.6			
37	093/20:21	+XVV	0	THR	Mnvr to Reboost Attitude (Prog on SM Aft)	TIG 20:42:00 DUR 03:57
	093/20:26	+ZLV	0	THR		
		TEA	0			
38	093/20:46	+XVV	356	THR	Mnvr to LVLH TEA	
	093/20:51	+ZLV	357.4	THR		
			0.6			
39	093/21:22	+XVV	356	THR	Handover RS to US Momentum Management	TEA for VV#3z N2neze, PSARJ auto, SSARJ auto
	—	+ZLV	357.4	MMT		
		TEA	0.6			

