

Space Acceleration Measurement System (SAMS) Fact Sheet

Increment: 19

SAMS Operational Support

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SAMS will not have regular on-console shifts. We will continue to monitor our hardware and respond to OCRs, etc. If a situation arises that requires us to be on-console, we will do so.

SAMS is always available 24/7 via cell phone.

The pimsops e-mail account is distributed to all SAMS and MAMS Ops Team Members to ensure a quick response.

SAMS Hardware

- Express Rack 1 (US Lab)

SAMS Drawer	SAMS EE	SAMS SE	Location in rack	Notes
RTS/D1	EE-F02	SE-F04 SE-F03	Drawer 1	SE-F02 stowed inside drawer
SAMS ICU/D1			Drawer 2	laptop

- Express Rack 2 (US Lab)

SAMS EE	SAMS SE	Location in rack
EE-F05	None	Embedded

- Express Rack 3 (COL)

SAMS EE	SAMS SE	Location in rack	Notes
EE-F04	SE-F08	Embedded	SE mounted with tape to front of ER3

- Express Rack 4 (JEM)

SAMS Drawer	SAMS EE	SAMS SE	Location in rack	Notes
RTS/D2	EE-F03	SE-F05 SE-F02	Drawer 2	SE-F05 mounted inside RTS Drawer SE-F02 taped to TCQ in JEM

- MSG Rack (COL)

SAMS TSHES	Location	Notes
TSH-ES 08	Work Volume	The MSG configuration puts SAMS on LAN 2. The head is mounted when needed, it is not permanently inside WV

- CIR (US Lab)

SAMS TSHES	Location
TSH-ES 05	Mounted on CIR rack

- FIR (US Lab)

SAMS TSHES	Location
TSH-ES 06	Mounted on FIR rack

- SPARE
 - EE-F06 (was used for MSG until TSH-ES 08 replaced it)

SAMS Data

Telemetry Science Data

All SAMS EE's , all TSH-ES's and ICU need to communicate with each other. This rack to rack communication is mapped in the CAM tables.

Each EE boots off of the ICU.

The TSH-ES are self booting, they do not need the ICU to boot.

Each EE and TSH-ES send the acceleration data and the housekeeping data to the ICU.

The ICU downlinks all SAMS data (APID 890, 898) to the ground.

Health and Status Data

Each EE sends health and status data to the RIC associated with the Express Rack it resides in.

The ICU sends health and status data to the RIC associated with the Express Rack it resides in.

Commanding

All SAMS Commands are sent to the ICU.

SCIENCE Data Support

The PIMS Team (pimsops@grc.nasa.gov) collects, processes, and displays the SAMS and MAMS acceleration data.

The SAMS data can be found at <http://pims.grc.nasa.gov/>