

902305 - Event Detection Using the Sedimentation Event Sensor

Week 52

1. Rich Henthorn
 - a. Improvements to event detection usability
 - b. Testing updates
2. Irene Hu
 - a. Biweekly planning meeting

Week 51

1. Rich Henthorn
 - a. More fixes and improvements with testing

Week 50

1. Rich Henthorn
 - a. Improved variable event trigger system
 - b. Refactor event detection
 - c. Other improvements and fixes

Week 49

1. Rich Henthorn
 - a. Numerous updates and fixes to SES control
 - b. Refactoring detection
 - c. Investigated Trigger Trap malfunctions

Week 47

1. Rich Henthorn
 - a. Recovered SES and Trigger Trap last week
 - b. Offloaded Trigger Trap logs that showed motor control failures
 - c. Begun updates for next deployment scheduled for Apr 2026

Week 46

1. Irene Hu
 - a. Carson recovery on Monday 11/10; all recovered successfully, but TT carousel was stuck

Week 43

1. Rich Henthorn
 - a. Data pull from SES recent deployment
 - b. Begin documentation effort

Week 42

1. Rich Henthorn
 - a. Latest SES mission completed, started another to finish out the deployment
 - b. Analyzing data and trigger events
 - c. Recovery next month, working on maintenance list

Week 41

1. Rich Henthorn
 - a. Recent SES data analysis
 - b. Post SES recovery plan

Week 40

1. Rich Henthorn
 - a. Scoping new behaviors for efficiency
 - b. Analyzing automatic threshold adjustments
 - c. Addressed issue that prevents modem communication

Week 39

1. Rich Henthorn
 - a. Ongoing monitoring of SES on MARS
 - b. Observing plenty of events
 - c. System working well
2. Irene Hu
 - a. Meeting

Week 36

1. Rich Henthorn
 - a. Updated SES mission with new event trigger parameters
 - b. Monitoring SES deployment

Week 35

1. Rich Henthorn
 - a. Good deployment of Trigger Trap last Thursday
 - b. Successful test of trigger from SES on MARS to Trigger Trap
 - c. Reviewing event detection algorithms and scripts

2. Irene Hu
 - a. Trigger Trap deployed at MARS after a last minute push with modem arriving in the nick of time

Week 34

1. Rich Henthorn
 - a. Preparing for Trigger Trap deployment to MARS
 - b. Acoustic modem repairs
 - c. SES MARS data
2. Irene Hu
 - a. Modem drama, but hopefully it arrives back from Teledyne in the nick of time.

Week 33

1. Rich Henthorn
 - a. More SES data analysis
 - b. Active time of year for sediment transfer
 - c. Setting up trigger trap for possible deployment next week

Week 32

1. Rich Henthorn
 - a. Monitoring MARS deployment
 - b. Image processing test tools
 - c. Prep Trigger Trap for deployment in 2 weeks

Week 30

1. Rich Henthorn
 - a. Monitoring SES performance on MARS
 - b. Controller timeout issue seems to have been addressed
2. Irene Hu
 - a. Clean up after last week's deployment, follow up with Benthos
 - b. Finished updating schematics and turnaround howto guide

Week 29

1. Rich Henthorn
 - a. SES MARS deployment prep and test
 - b. SES MARS deployment
2. Irene Hu
 - a. Help with prep for deployment; final decision on trigger trap is not to send it down with the directional modem, due to lack of confidence
 - b. Deployment of SES at MARS on July 16

Week 28

1. Rich Henthorn
 - a. Preparing for MARS deployment scheduled for next Wednesday
 - b. Setting network IPs and testing SIIM can
2. Irene Hu
 - a. Acoustic modem sent back to Benthos because receiver doesn't work
 - b. SIIM can finished refurbishment, tested with power supply and works
 - c. Converted battery sphere to MARS mode, tested with power supply and seems to work

Week 27

1. Rich Henthorn
 - a. Reviewing full SES dataset and logs from 6 month deployment
 - b. Some issue with interval between images especially in the later stages of the deployment
 - c. Suspect the data backup function causing the power control board to timeout
 - d. Developing a more efficient data backup scheme
2. Irene Hu
 - a. Turnaround SES for MARS - modifying SIIM can for new MARS without 48V
 - b. Troubleshooting modem

Week 26

1. Irene Hu
 - a. Picked up SES and TT on Monday
 - b. Start troubleshooting TT modem
 - c. Start SES conversion to MARS, beginning with SIIM can conversion

Week 25

1. Rich Henthorn
 - a. Recovery prep
2. Irene Hu
 - a. Compiling notes and rewatching videos to put together turnaround document; various handoffs from Paul
3. Paul McGill
 - a. Preparing for recovery cruise
 - b. Working with Irene and Knute to prepare SES for MARS

Week 24

1. Irene Hu
 - a. Started organizing notes for "manual", updated battery sphere - MARS schematic for Sense wire issue

Week 23

1. Irene Hu
 - a. Meeting

Week 20

1. Rich Henthorn
 - a. Spare controller dev

Week 19

1. Rich Henthorn
 - a. Proposal abstract

Week 16

1. Rich Henthorn
 - a. Building spare MVC

Week 14

1. Rich Henthorn
 - a. Acoustic modem consolidation

Week 11

1. Rich Henthorn
 - a. Attempted comms with SES and Trigger Trap
 - b. SES status is consistent with expected
 - c. Trigger trap modem seems dead and no samples taken

Week 7

1. Irene Hu
 - a. Reviewed wiper situation based on photos

Week 3

1. Rich Henthorn
 - a. Project meeting, visit test site March 10

Week 1

1. Rich Henthorn
 - a. A few more changes and fixes