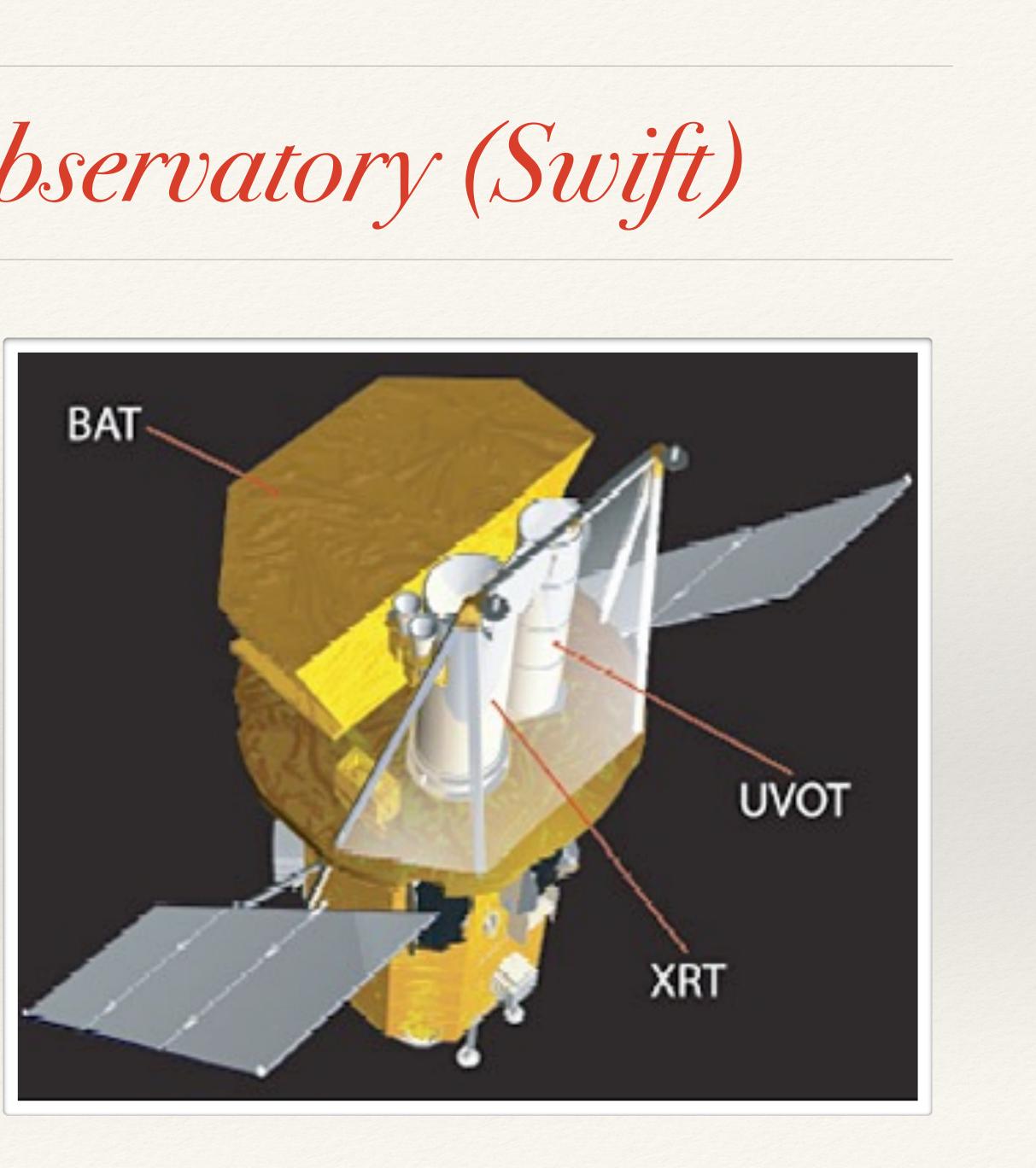


"The test of a first-rate intelligence is the ability to hold two opposing ideas in mind at the same time and still retain the ability to function."

-F. Scott Fitzgerald

- * Burst Alert Telescope (BAT): 15-350 keV, 1.4 sr field-of-view, ~ 3' localization
- * X-Ray Telescope (XRT): 0.2-10.0 keV, 24' x 24' field-of-view, 3" localization
- * UV/Optical Telescopes (UVOT): 170-650 nm, 17' x 17' field-of-view, 0.5" localization

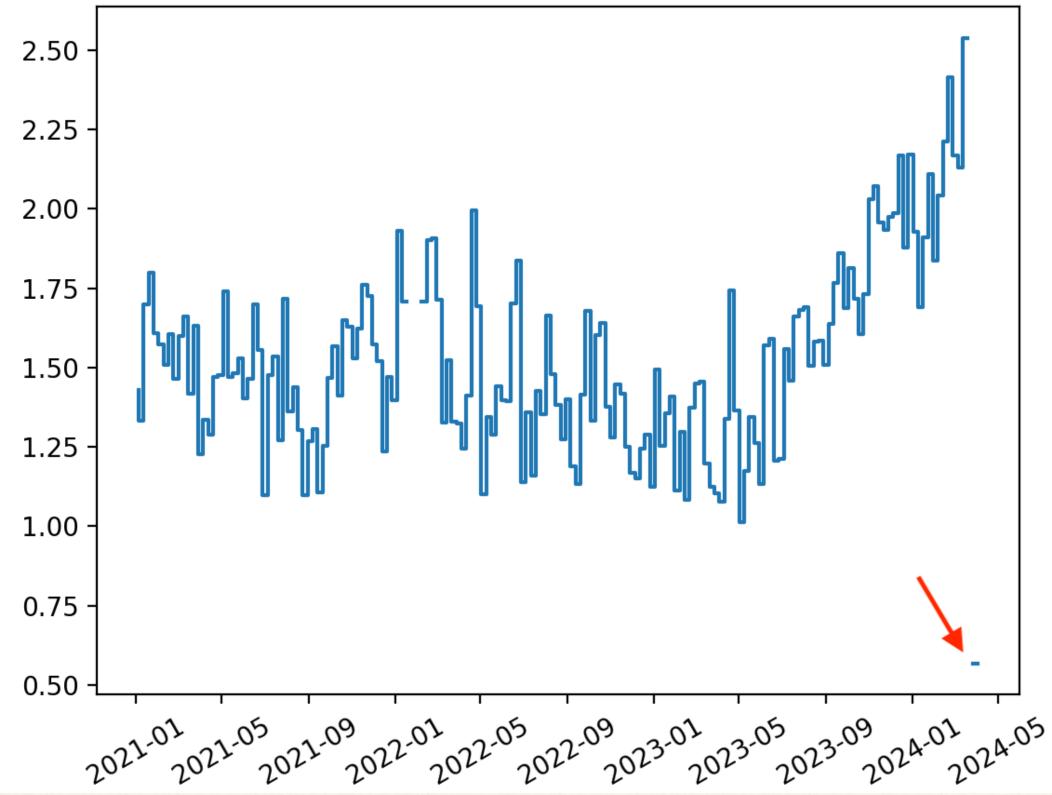
Neil Gehrels Swift Observatory (Swift)



- * *Swift* has 3 Two-Axis Rate Assemblies (TARAs, aka gyroscopes) on-board
 - * Help provide attitude control (particularly during slews)
- * TARA1 began degrading in ~ July 2023, and "failed" in March 2024
 - Unsuccessful slews (false BAT triggers)
 - Trailed UVOT images **
- * Two gyro operation required flight software patch
- * Patch installation successful, returned to science observations ~ April 3
 - Slew performance better than ever!

Gyroscope Anomaly - Resolved!

Daily Average Slew Error





New Capabilities

- * On-Demand storage and downlink of BAT event mode data (aka GUANO)
- Urgency "0" Target-of-Opportunity requests: autonomously uplinked to spacecraft, observations beginning within minutes of receipt
- * Joint Guest Investigator Program with IXPE
- * Python API for querying schedule, calculating visibility, submitting ToO requests, and processing XRT data (*swifttools*)
- * Python API for BAT data analysis
- * Your input needed here!



Questions?