

National Aeronautics and
Space Administration



EXPLORE EARTH

**NASA Land Discipline Team Virtual
Workshop**

NASA Headquarters Program Objectives
and Updates

April 11th 2022

Program Objectives and Updates

Terra, Aqua, and Aura

- The NASA EOS era is coming to a close:
 - Terra, Aqua, and Aura are aging spacecraft
 - Still collecting data and producing data products, but the number of spacecraft anomalies is increasing, especially over the last year
 - The missions are increasingly expensive to operate (~90 mil/yr; spacecraft operations; product team support), taking away from the execution of future ESO missions
 - Phase F is imminent for these spacecraft. Thus, we need to prepare for their end of life
 - Current thinking from HQ leadership: End of missions **will likely** be in FY2023
 - Data collection stops FY23 (summer); Missions will **not likely** participate in the next senior review
 - Last senior review funds Terra and Aqua missions through FY25, which includes 2 years of Phase F funding
 - Phase F funding for 2 years (FY23-25) of mission wrap-up which should be used for mission closeout (decommissioning of all assets, finalizing, reprocessing, and archiving data sets, writing final reports).

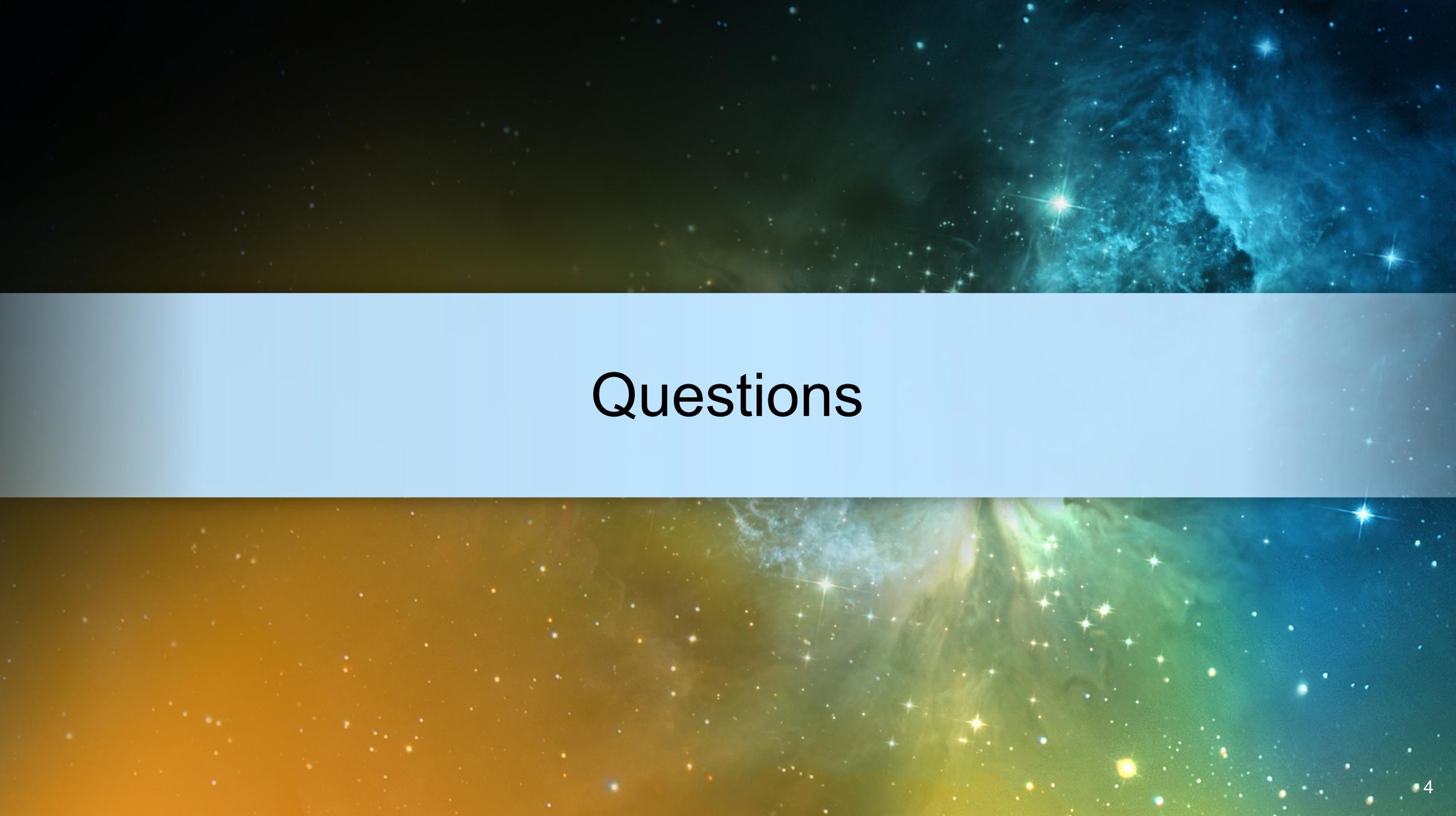
Soumi-NPP & JPSS

- SNPP and JPSS satellites are being looked to for continuity products
- It's not 100% clear how long NOAA intends to operate SNPP, NASA to continue to support until EOM
- NASA JPSS support to continue

Program Objectives and Updates

Going Forward

- NASA HQ and the community have worked to help ensure continuity and stable data products between sensors on TASNPP & JPSS platforms
- We think we are close for critical MODIS/VIRRS land products but need to be informed of issues that the community sees
- During KDP-F there can/will be a discussion on which products need to continue to be maintained and how they should be funded
- In the Senior Review guidance letters, the Terra Project was directed to hold a Users' Workshop to communicate quantitative changes in the Terra datasets, and to prepare users for the mission's end-of-life, including evaluation of continuity products NLT 2022. It's not clear to us at HQ if this process has started
- When Terra mission ends, NASA EOS AM observations stop. This is a big problem for operational wildfire data products, among others. We need to come up with a continuity solution for AM observations (Sentinel and MetOps?). Discussion like this should be starting/happening now

The background of the slide is a composite of two cosmic images. The top half features a dark blue and black space filled with numerous small, bright stars and a prominent, glowing blue nebula on the right side. The bottom half shows a similar starry field but with a warm, golden-yellow and greenish glow, suggesting a different nebula or star formation region. The word "Questions" is centered in a white, sans-serif font across the middle of the image.

Questions