HysplRI Status Update

HysplRI 2013 Products Symposium, NASA GSFC Bldg. 34, Rm W150

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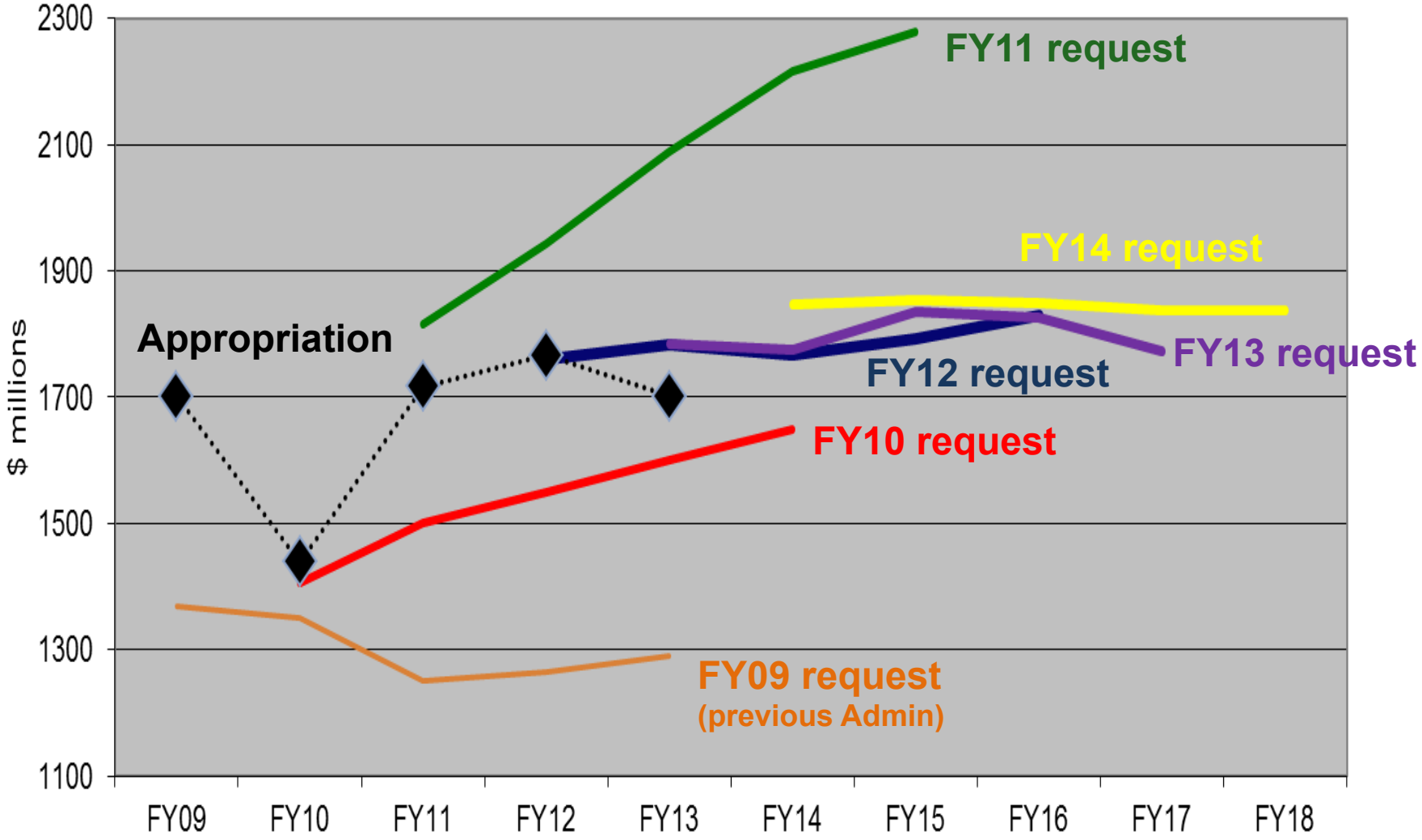
Earth Science Budget FY 14 Request



Marching Orders for FY2013

(Per 12/20/2012 Guidance Memo from Steve Volz)

1. Continue broad community support via workshops/symposia

2. Draft science objectives whitepaper specifying value of individual science measurements & potential science return of instruments on separate platforms

3. Use airborne activities to define instrument capabilities & data product development & utilization related to hyperspectral instrument

4. Examine instrument trades toward defining lower cost & more adaptable instrument &/or measurement approaches (IDL/Team I with ESTO, ESM SEWG)

5. Participate in Applied Sciences-led data latency study

6. Support cross-mission studies of possible ISS instrumentation options for advanced instrument demonstrations (ESM Program Office)

7. Provide a schedule detailing implementation of FY13 tasks

Past Year

- 5th HyspIRI Science Workshop in October 2012
- Pre-Formulation Workshop in November 2012
  - *"For a Tier II Decadal Survey mission, the HyspIRI concept is relatively mature and would address compelling research needs within multiple Earth science disciplines, however a dedicated HyspIRI mission is not in the near term program budget. Consequently the team should* ***discontinue mission-level concept studies*** *and* ***focus on the instrument and data management/data product development activities****. The team is to be commended for its excellent community coordination and on its steady progress on instrument definition and data compression techniques. The airborne campaigns, both past and planned, continue to provide excellent data sets for your study activities. The value of leveraging the R&A budget to enable the study activities and of the Independent Cost Estimate (ICE) conducted by the Aerospace Corporation in support of the HyspIRI mission is also recognized."* – Steve Volz
  - Current launch date still after 2020
  - Explore partnerships to accelerate launch of elements of the HyspIRI mission
- HyspIRI Preparatory Airborne Activities Mission started in April 2013 with 14 investigations
- Steering Committee, Science Study Group (SSG), and International Science Group calls
- HyspIRI Mission Applications Reps: JPL/Simon Hook, MSFC/Jeff Luvall
- AVIRISng and HyTES flying, PHyTIR development
- Prepare for opportunities!

Land Imaging in FY 2014 President's Budget

In FY14 NASA will initiate the definition of a sustained, space-based, global land imaging capability for the nation, ensuring continuity following LDCM. Near-term activities led by NASA, in cooperation with USGS, will focus on studies to define the scope, measurement approaches, cost, and risk of a viable long-term land imaging system that will achieve national objectives. Evaluations and design activities will include consideration of stand-alone new instruments and satellites, as well as potential international partnerships. It is expected that NASA will support the overall system design, flight system implementation, and launch of future missions, while USGS will continue to fund ground system development, post-launch operations, and data processing, archiving, and distribution.

- President's FY2014 Budget release

- **NASA Earth Science Division has responsibility for first studying and then implementing a "*sustained, space-based, global land imaging capability for the nation*"**
  - **$20M (FY14) proposed in NASA budget to study options**
- **NASA will lead this activity, supported by the USGS**
  - **ESD flight, R&A and Applied Sciences are working with USGS**
- **The remainder of FY13 is a planning period, as NASA and USGS work out the details of the study and the cooperative relationship, and initiate study activities**
  - **The study will be led by NASA HQ in close coordination with USGS**
  - **The study "*will include consideration of stand-alone new instruments and satellites, as well as potential international partnerships*"**