

OPO Presentation STUC Meeting

October 2016

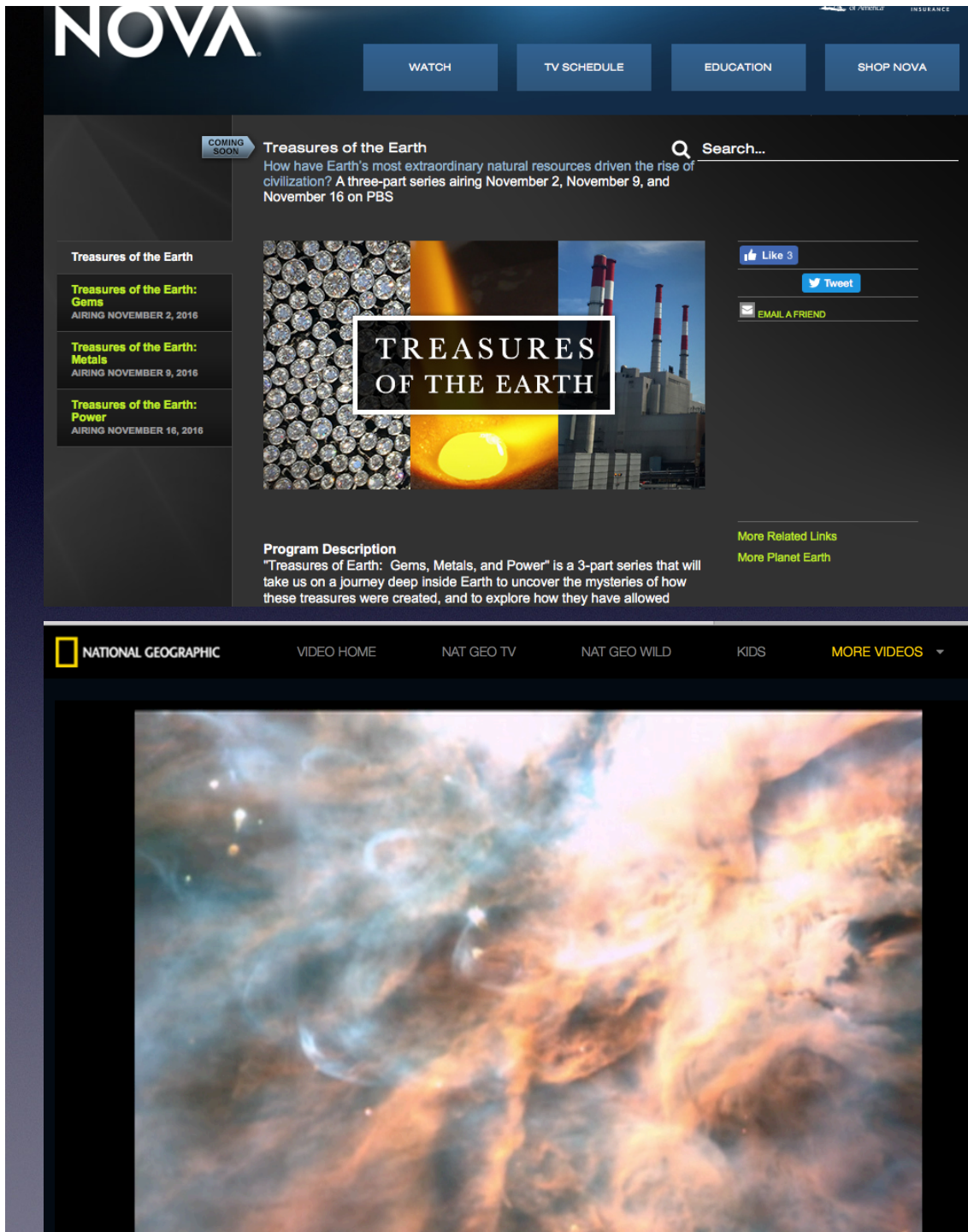
JWST Outreach

Webbtelescope.org (public site) is now live: **webbtelescope.org**



New Minutephysics video "Where do Galaxies Come From?" released, 300,000 views in first 24 hours [June 28]

<https://www.youtube.com/watch?v=kif4ON6QOPE>



PBS Nova special
"Treasures of the
Earth" includes gold
and JWST mirrors
3 part series will air;
Nov. 2, 9 and 16th

Working with
NatGeo program to
update to the 2010
documentary "Hubble's
Amazing Universe" with
JWST and HST content

Outreach Events



Astronomy Festival on the National Mall
June 10, 2016



Events at Lassen and Yellowstone

**Frontiers of Science
& Science Fiction**

with
Connie Willis
Charlie Stross
Larry Niven
Kim Stanley Robinson
Joe Haldeman
Harry Turtledove

Top science-fiction authors talk science and storytelling with the astronomers and engineers of the Hubble and Webb space telescopes.

Live webcast
11:15 a.m. ET
May 27

[YouTube.com/hubblespacetelescope](https://www.youtube.com/hubblespacetelescope)

50 Science Fiction writers visit to STScI

USA Science and Engineering Festival [Apr 15-17]



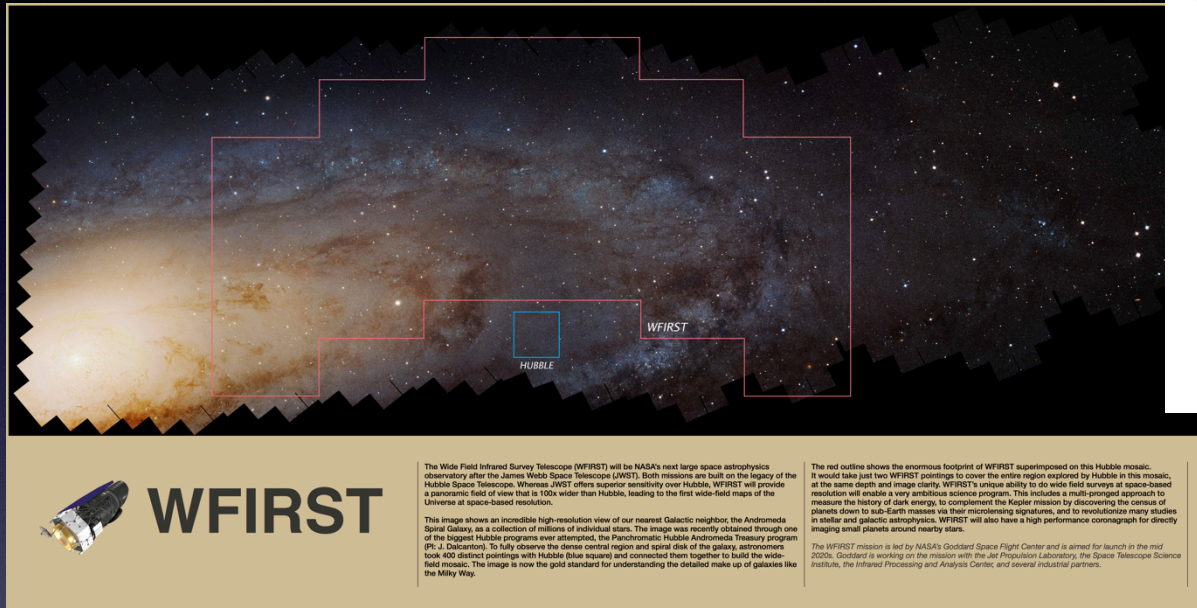
365,000 attendees over 3 days (60,000 students)

Artscape (Baltimore): Theme
"Space: Explore What's Out There"

The Festival attracted 1/2 Million visitors



WFIRST



ViewSpace



WFIRST: Expanding Our View

PHAT/WFIRST Field-of-View display GSFC
Building 29 (Clean Room)

- Animations & Videos
- Brochures
- Exhibits
- Public Events



our place in **SPACE**

Our Place in Space

Our place in Space is a travelling exhibition designed to get you thinking about where humanity fits in the grand scheme of our Universe. Astronomers and artists will present their own interpretations of where we are, where we belong, what our past might have been and what our future might look like, by using Hubble images, artworks and installations. Combining different perspectives in the exhibition by bringing together art and science gives us a unique, and more complete, view of the Universe we live in and the research, both in science and the arts, being done to understand it.

<https://www.spacetelescope.org/projects/ourplaceinspace/>

Exhibition locations

Venice, Italy

February to April 2017

Garching, Germany

November 2017 to February 2018

SMD Education Restructuring

- Desired Outcome: *To increase the overall coherence of the SMD science education program* leading to more effective, sustainable, and efficient utilization of SMD science discoveries and learning experiences and to meet overall SMD science education objectives.
- Fundamental to achieving this outcome is to *enable NASA scientists and engineers to engage more effectively with learners of all ages.*

SMD Education: Status

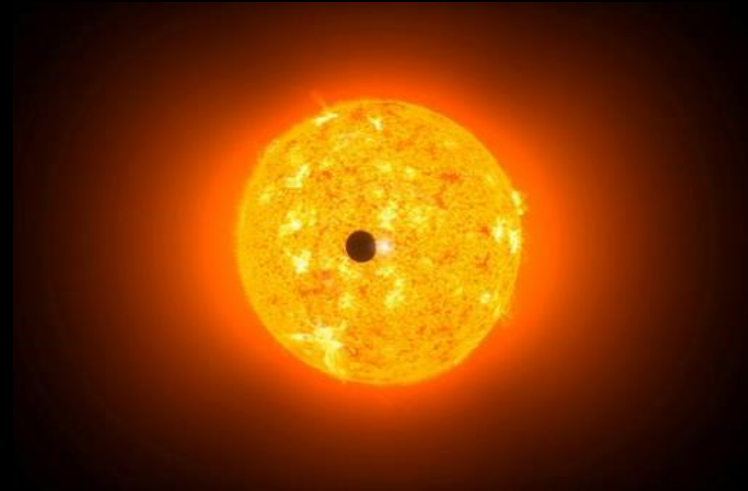
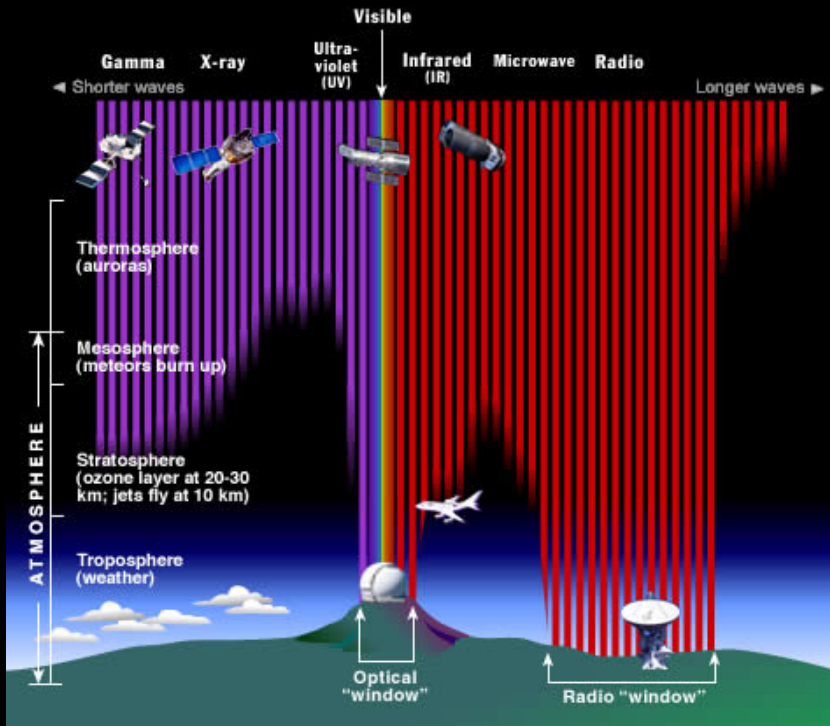
- FY16 appropriation provides \$37M for SMD Education.
- 27 proposals selected. Awards made and Year 1 funding provided.
- Collaboration across CAN awards encouraged.
- SMD holding monthly telecons with awardees.
- Baseline Review meeting in November will cover program reports, priorities for upcoming year, and leveraging efforts.

NASA's Universe of Learning

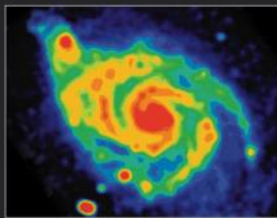
An Integrated Astrophysics STEM Learning and Literacy Program



Connecting to Fundamental STEM Concepts



Light and Color
Size and Scale
Models
Process of Science



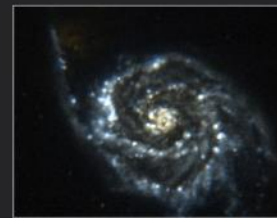
Radio



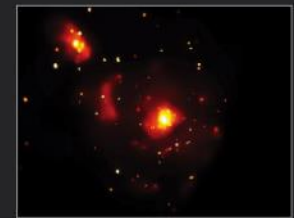
Infrared



Visible

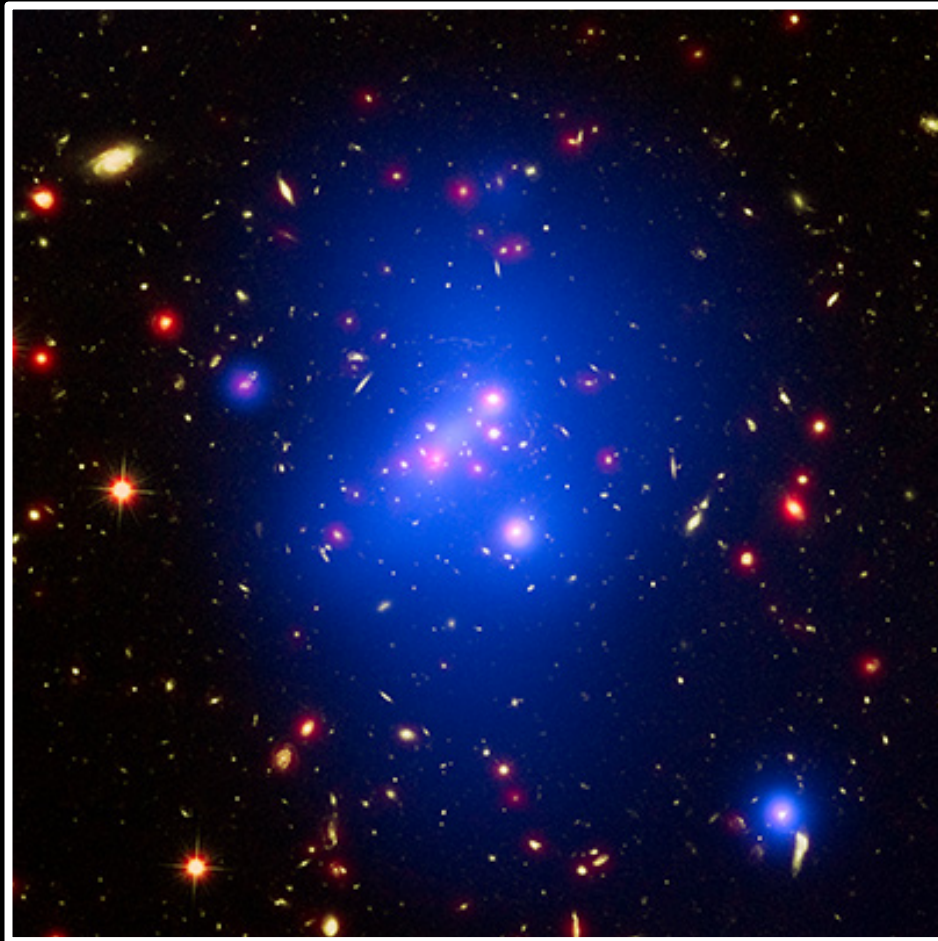


Ultraviolet



X-Ray

Integrating NASA Astrophysics into Audience-Driven Programs



NASA Astrophysics Science,
Technology, and Subject Matter Experts

Data Tools &
Participatory
Experiences

Multimedia
and Immersive
Experiences

Exhibits and
Community
Programs

Professional
Development



Audience Needs

Universe of Learning: Status

- Subcontracts established with Co-Investigators and external evaluators.
- Regular leadership team meetings established.
- Initial evaluation plan and literature review submitted to SMD.
- Integrated cross-institution work plan and work groups in place.
- Initial collaborations with other CAN awardees identified.
- Needs assessment surveys in progress (partnership, subject matter experts, informal education community).
- Development and piloting of initial program activities underway.



Chandra Pencil Code



Immersive Experiences



Engaging the Museum Community