

# Previously Seen on NPP at the MUG

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SSEC/CIMSS  
8 May 2012



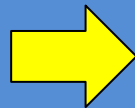
# Fast-Forward to 1994

POES

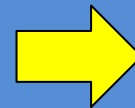
DMSP



NOAA  
NASA  
DoD



IPO



# NPOESS Satellites – Original Plan

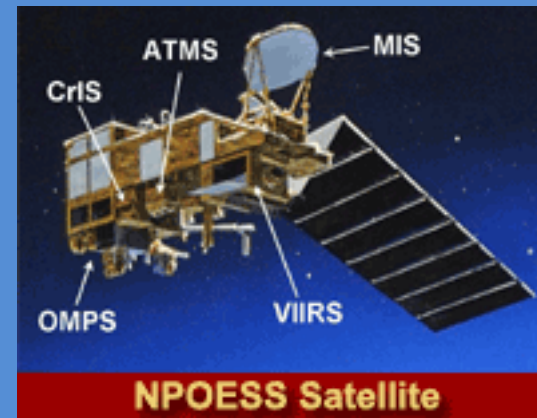
NPP

C1

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# Bush Proposes Manned Mars Mission

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*New Media Producer: Brad Maglinger*

President Bush is giving NASA a new mission: returning humans to the moon, then flying onward to "worlds beyond our own."

Speaking at agency headquarters, he proposed a permanent lunar outpost by 2020, and a manned mission to Mars after 2030.

Before that, Bush would complete the orbiting space station, retire the space shuttle and build a brand new spacecraft, the "Crew Exploration Vehicle."

He says robots have done well in space, but humans still need to "see and examine and touch".

To help NASA meet these goals, Bush is proposing to give NASA three billion dollars. Critics say that leaves future presidents to make the tough spending calls.

At the announcement, Bush was joined by astronaut Michael Foale by radio from the international space station -- and Eugene Cernan, the last man to walk on the moon, who left vowing humans would one day return.

Says Bush: "America will make those words come true."

*Source: AP*

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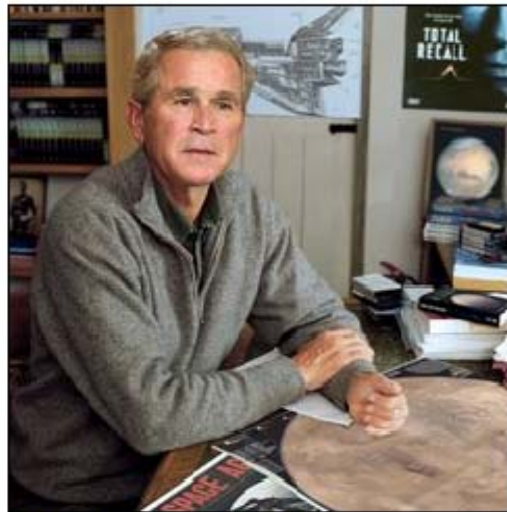
## NEWS

# Bush Still Working On Manned Mission To Mars Quietly In Spare Time

SEPTEMBER 27, 2010 | ISSUE 16-39

DALLAS—Speaking from his home in Dallas, former president George W. Bush told reporters Tuesday that when he's not busy giving lectures or writing his memoirs, he spends most of his spare time working on the manned mission to Mars he proposed in January 2004.

[Enlarge Image](#)



Bush goes over some of the statistics on surviving in a prolonged low-light environment.

"This is genuinely important to me," said Bush, looking over sketches of potential rocket systems he had drawn up while waiting for his oil to be changed at a service station earlier this week. "I wasn't kidding when I announced a plan to get us to Mars, by God, and I intend to finish what I started. That's why I try to carve out a little time before lunch and after dinner to work on this important interplanetary initiative."

"It's a big project," Bush added. "Lots of little details to work out."

While in 2004 many critics suggested Bush's call for a mission to Mars was little more than political theater, the 43rd president has called those claims

"ridiculous." Bush said he has spent many hours scouring the web for information about space travel and Mars, in addition to checking out "a bunch" of books on the subject from the local library and regularly e-mailing contacts he still has at NASA to ask their advice on his plan.

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08.18.04

# THE BUSH MARS MISSION

Possible launching point  
(NOTE: must get  
astronauts to moon first)

Beyond orbit of Mars;  
lots of small rocks,  
DO NOT GO HERE

Leave main spaceship  
here, send down  
smaller one to surface

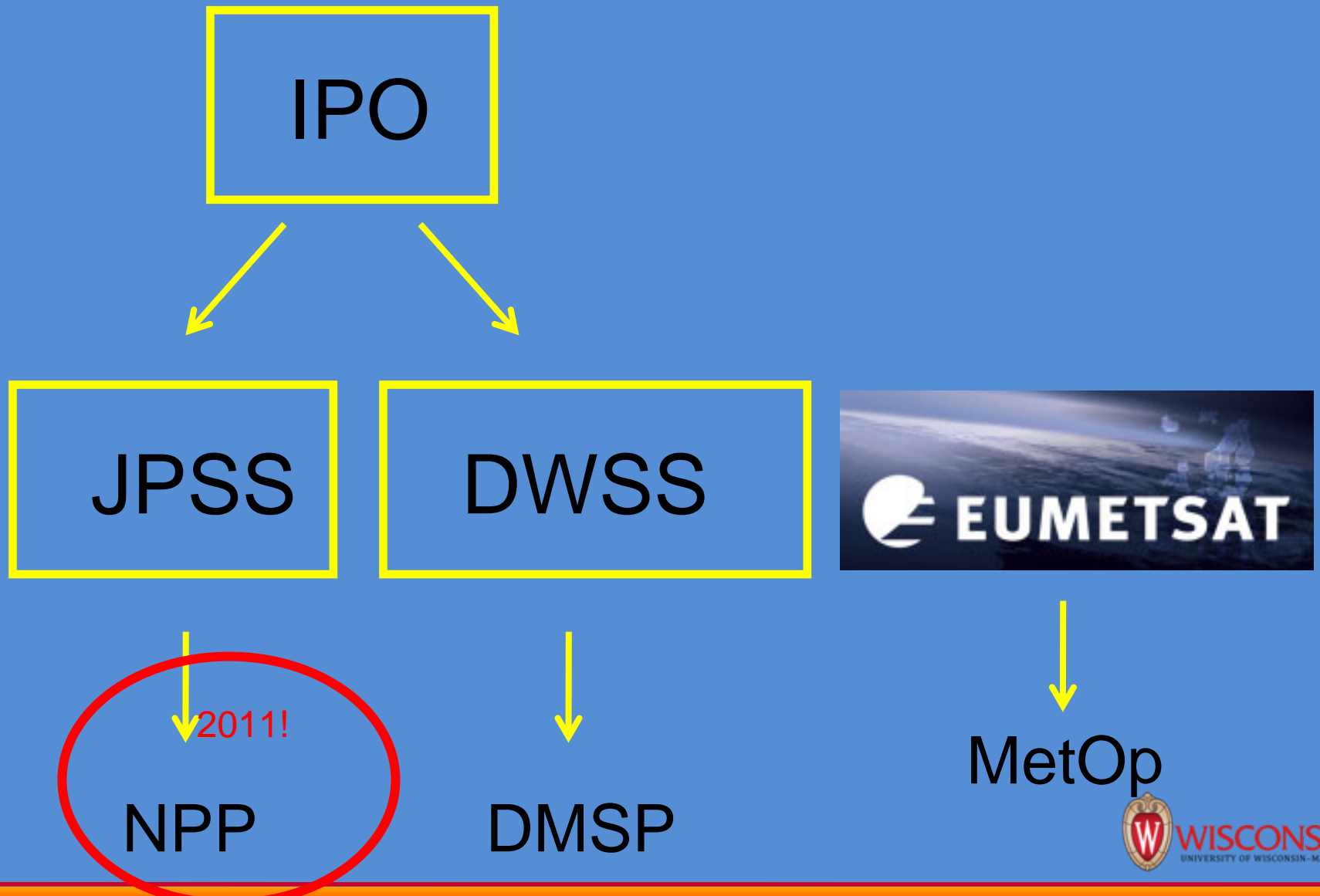
Not so good  
to land here

Good place to land  
(possible bounce-  
balloon approach?)

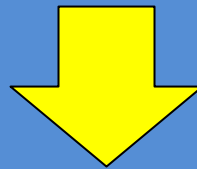
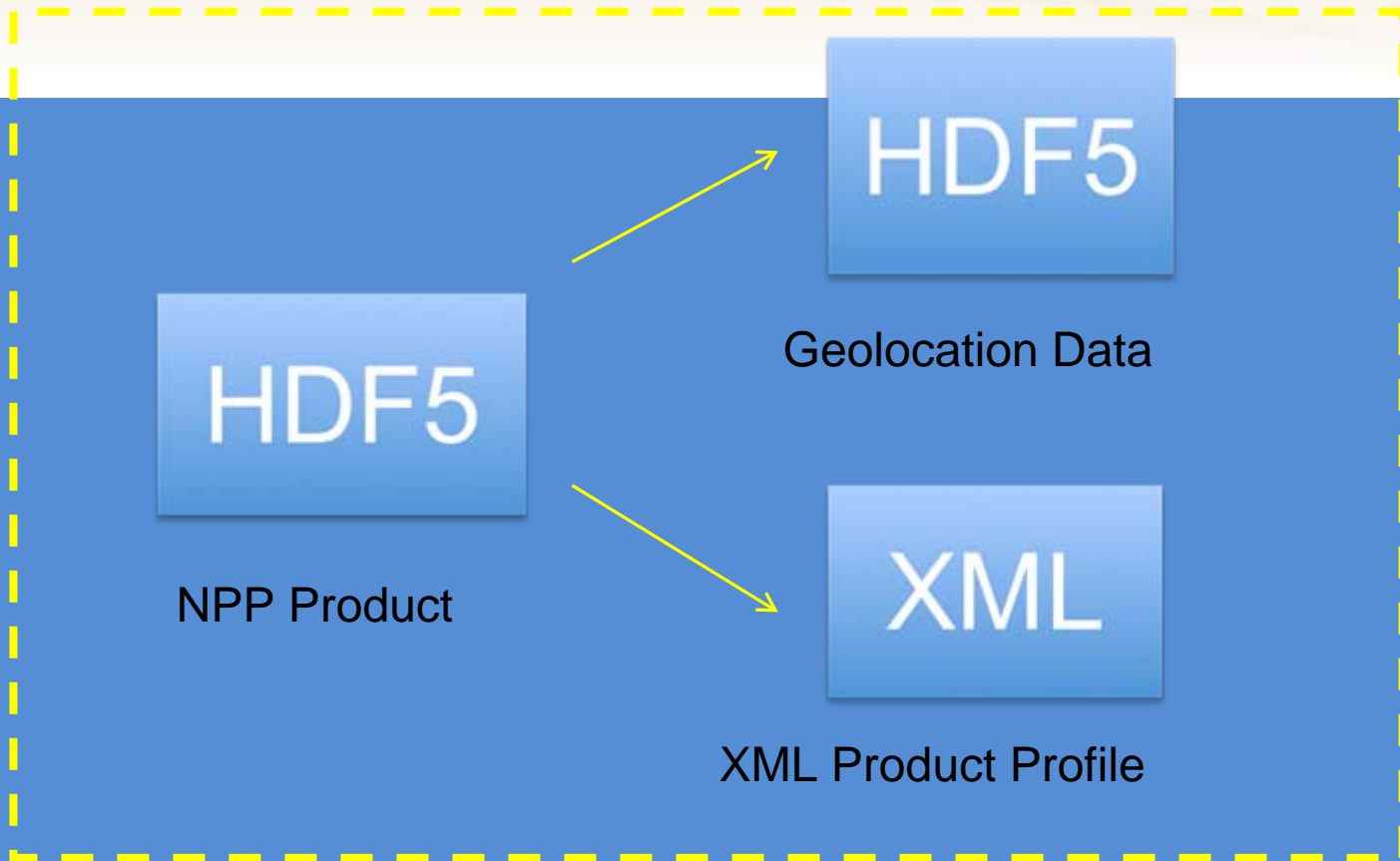
Astronauts will need to  
eat; good place to grow  
some food and eat it

May contain water (water = hydrogen  
plus oxygen; hydrogen good for fuel,  
oxygen good for breathing)

# Fast-Forward to NOW



# NPP Data Source Object



McIDAS-V Data Object

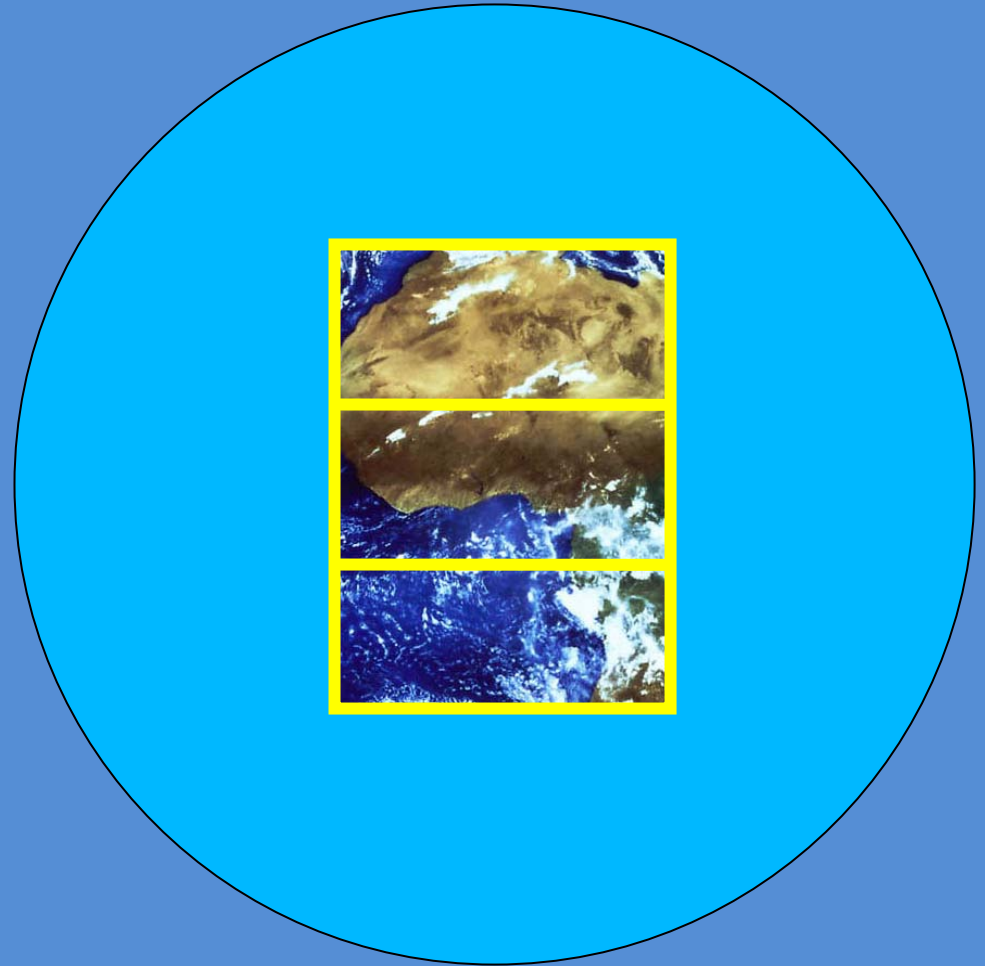


# Granule Aggregator

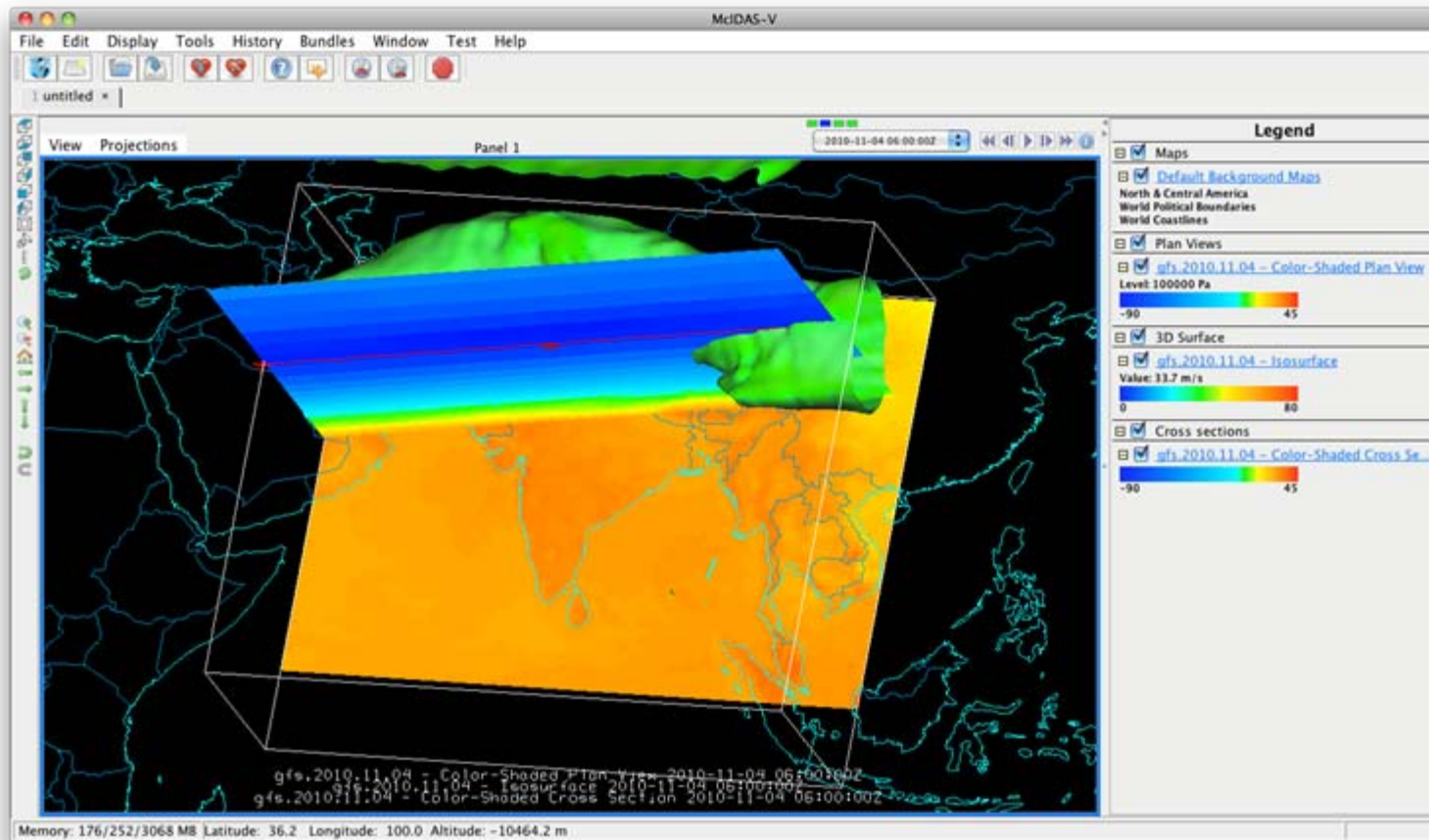
Lets user select arbitrary set of granules for display.

Once loaded, the full McIDAS-V capabilities are available, including:

- Sub-setting
- Reprojecting
- Formulas
- Saving data



# Collaboration with ISRO/SAC

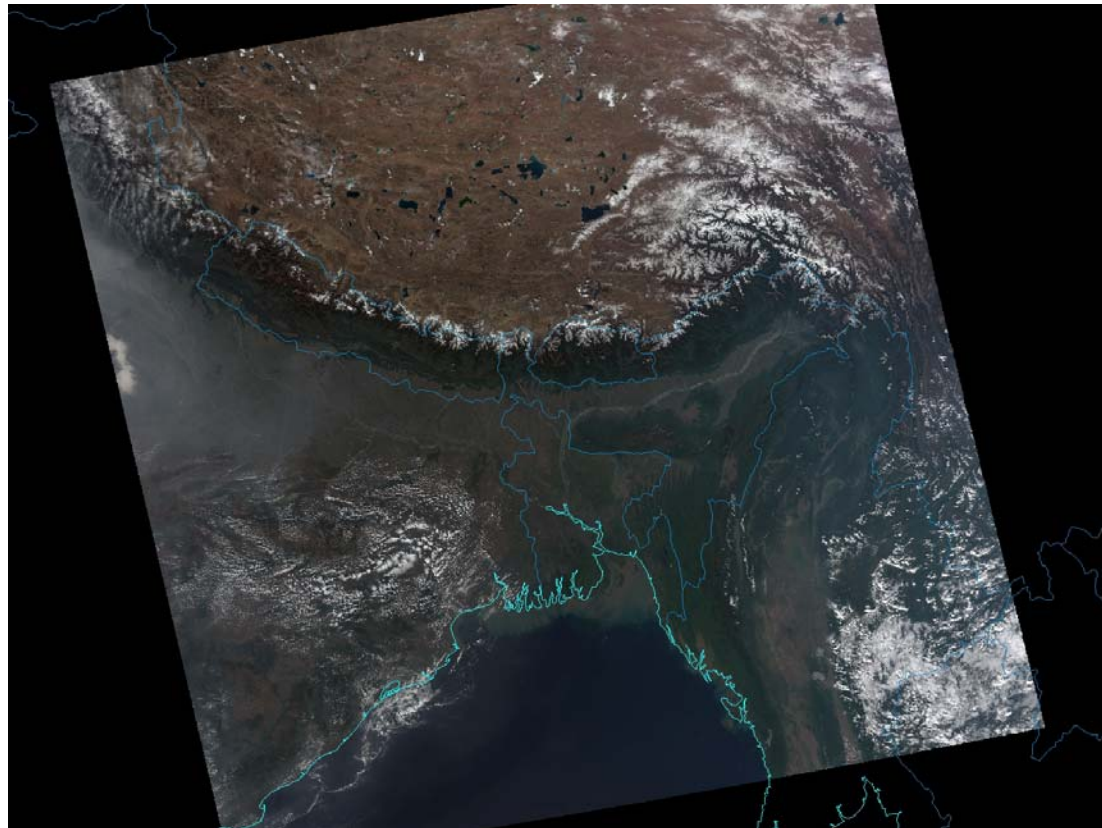


Demonstrated: Images, Grids, Point Data, Hyper-Spectral Data, Scatter Plots, Isosurfaces, Volume Rendering, Vertical Profiles, and much more.



# NPP Data Demonstration

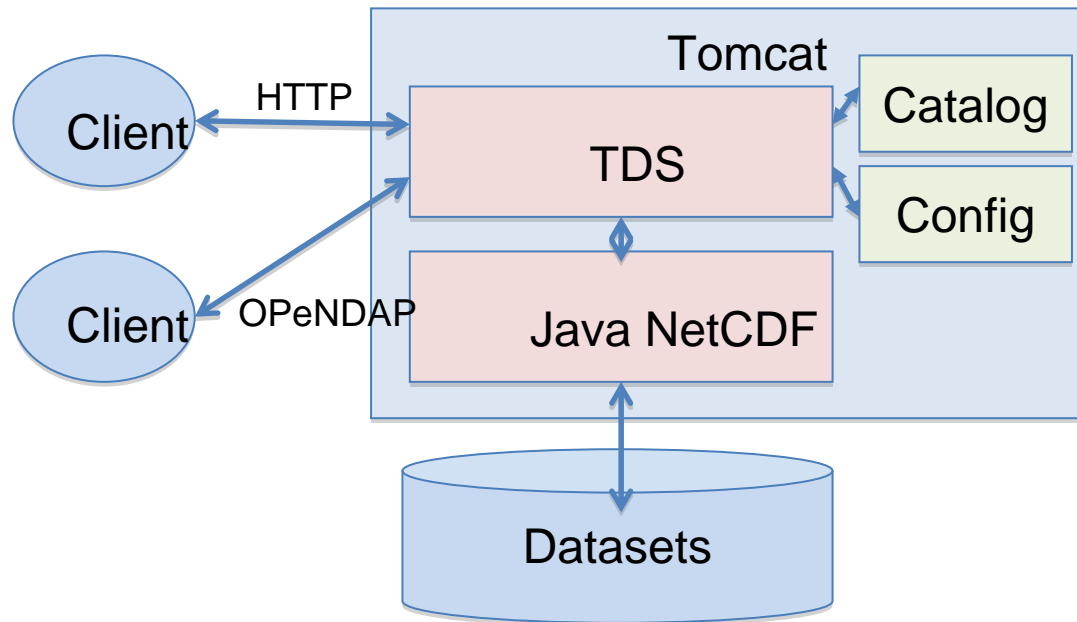
Topics Covered: VIIRS, CrIS, ATMS, Granule Aggregation



NorthEast India as viewed by VIIRS, RGB generated by McIDAS-V



# ADDE and THREDDS server demo



If ISRO/SAC has large datasets to share within the organization, and if geo-physical and climate data analysis tools like McIDAS-V, IDV, Ferret will be used, then ADDE or THREDDS are good solutions for secure, efficient data serving. RAMADDA should also be investigated as a 3<sup>rd</sup> alternative.

# Upcoming ISRO Missions

- **INSAT-3D (Met satellite, 6 Ch-I, 19 Ch-S)**
- **Chandrayaan-2 (Moon mission)**
- **SARAL**
- **ASTROSAT**
- **GSAT 6-?**
- **INSAT-4A...**



# Additional Accomplishments

- Initial adoption of AODT in McIDAS-V
- Evaluated Kalpana-1 BUFR data
- Standardization of data product formats
- Analysis of Kalpana-1, INSAT-3A L1 Geophysical Parameters in McIDAS-V
- Analysis of Sounding data in McIDAS-V
- Special thanks: Ghansham Sangar





<http://metobs.ssec.wisc.edu/aoss/cameras/hawkcamlash.html>



**Louie turns 95!**  
**May 7, 2012**

