



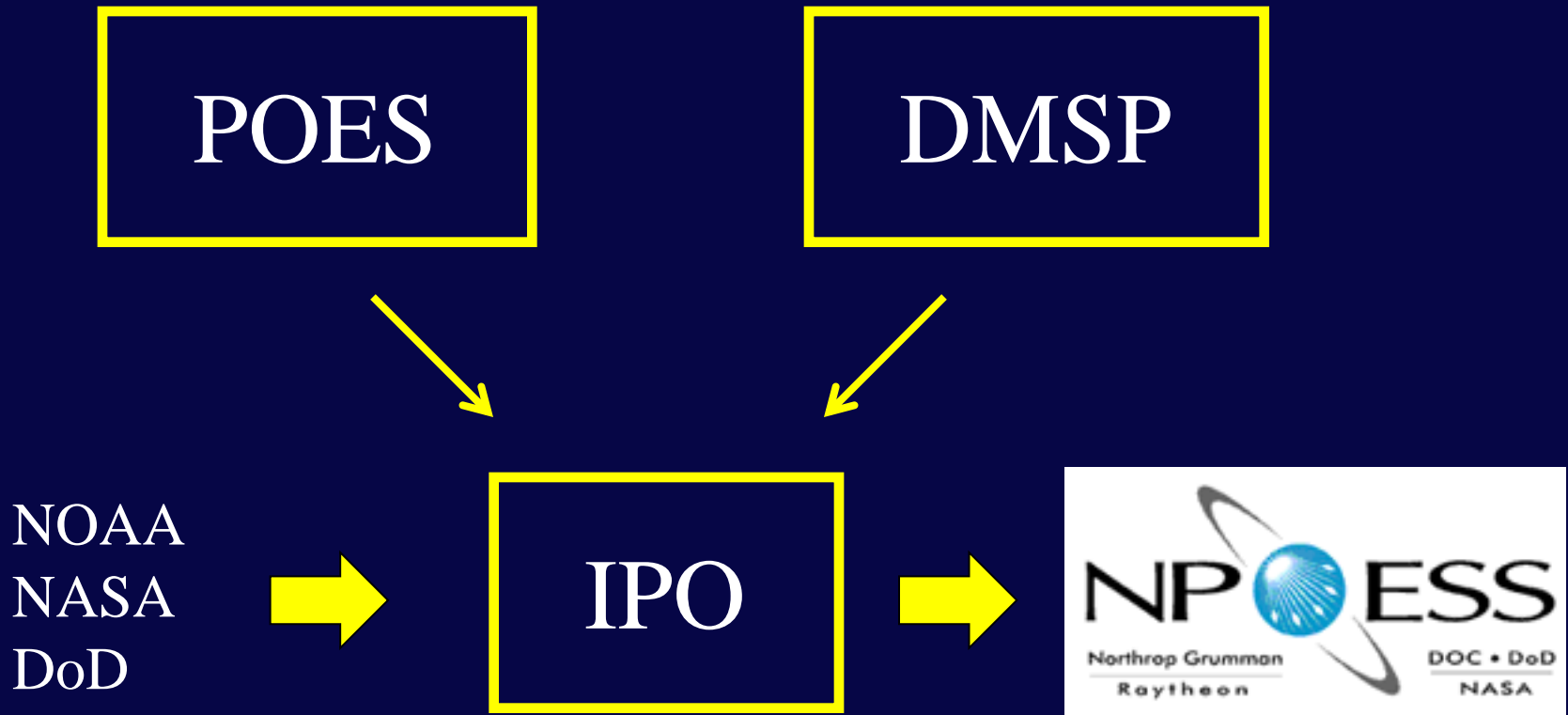
NPP Data Visualization using McIDAS-V

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<http://www.ssec.wisc.edu/mcidas/software/v/>



The Polar Satellite program in 1994



NPOESS Satellites – Original Plan

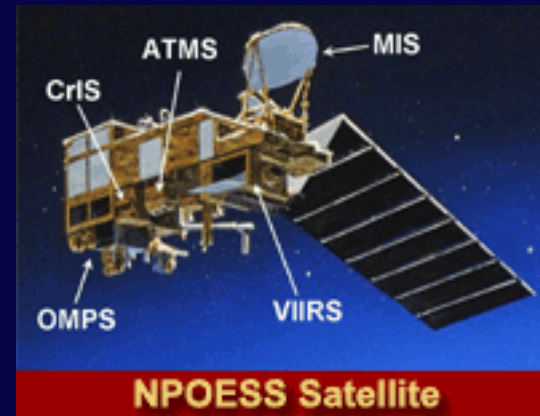
NPP

C1

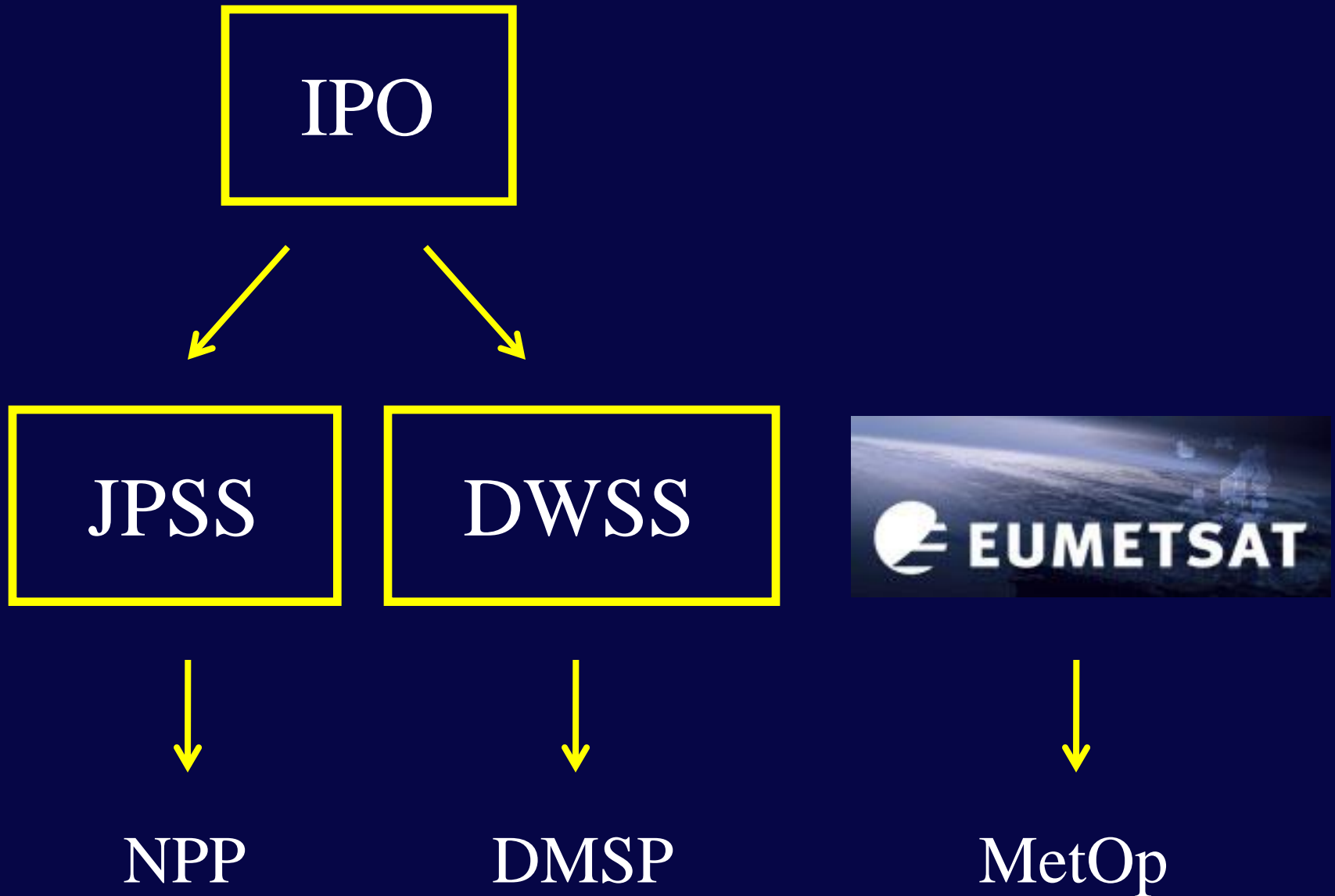
C2

C3

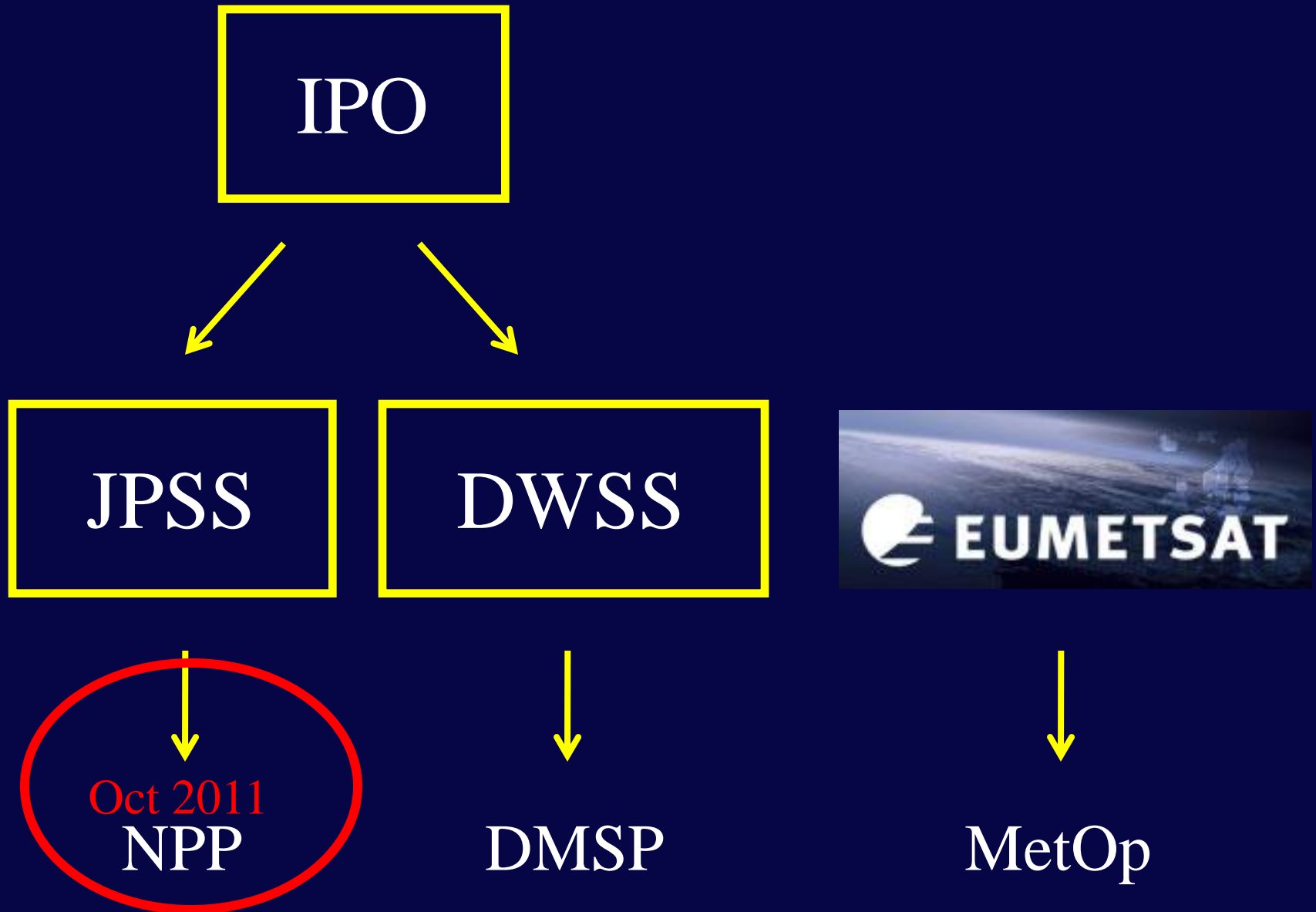
C4



The Polar Satellite Program Today



The Polar Satellite Program Today



NPP data visualization in McIDAS-V

We developed 3 main pieces to accomplish this

1) Data Chooser

- Way to select data
- Decide if all pieces needed are present

2) Data Source

- Get selected data loaded, organized in memory
- Apply metadata: geolocation, scales, offsets, etc.

3) Granule Aggregator

- Time ordering of product granules
- Cross-granule spatial sub-setting

NPP Data Chooser

- Is there valid, displayable NPP data on this computer?

User navigates to data directory

If a file looks like an NPP Product, and...

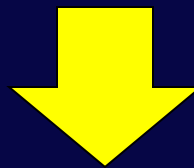
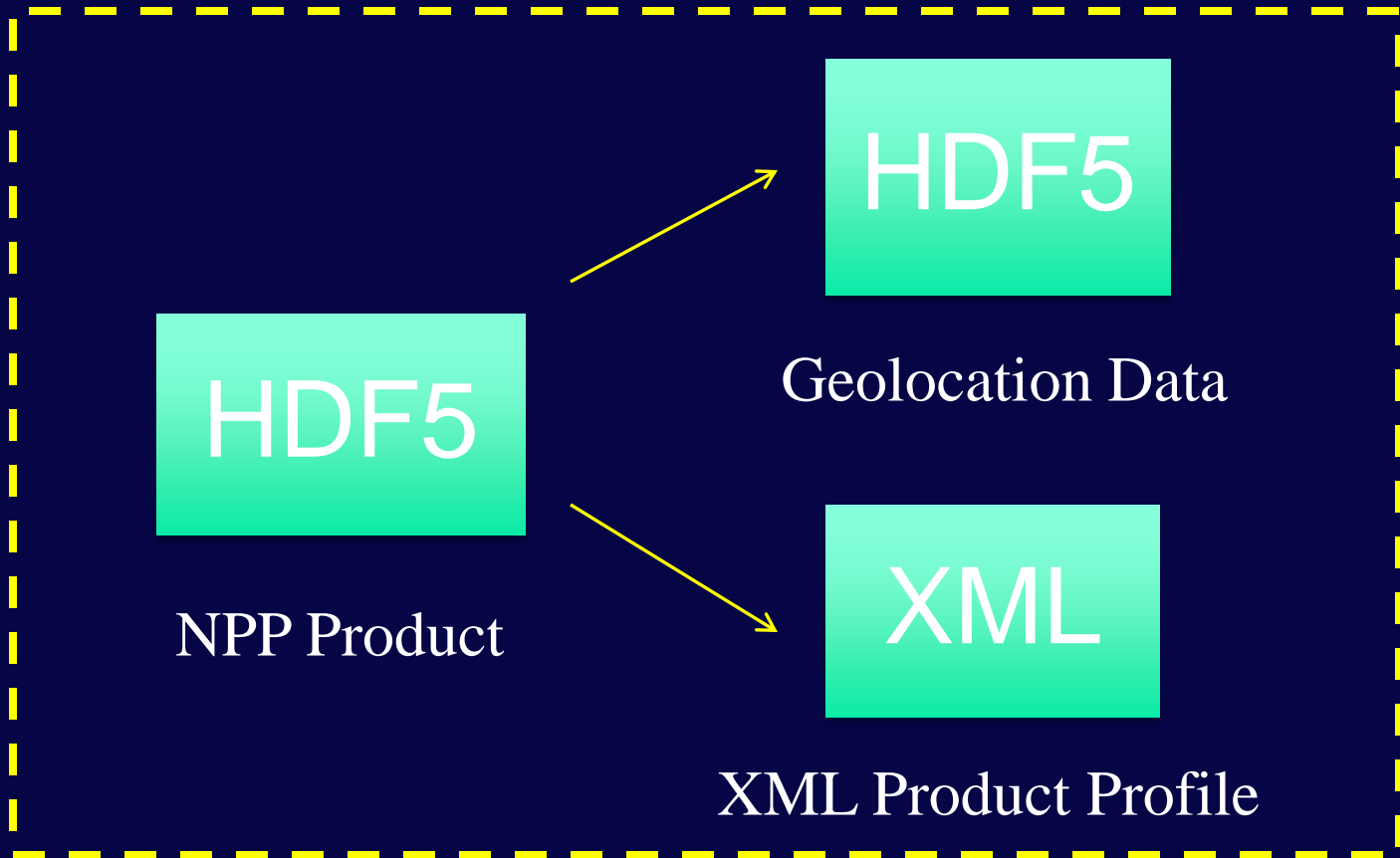
 If we can find the associated geolocation data, and...

 If we can find the associated XML Product Profile

 YES, we can show this data

Assumption for now: All 3 pieces reside in current directory

NPP Data Source Object



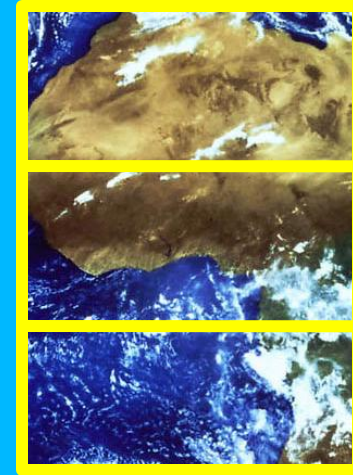
McIDAS-V Data Object

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



Conclusions

- In a short time, we've added support for NPP data in McIDAS-V, a powerful, free, scientific data visualization and analysis software package.
- Details of how to access, select, and manipulate NPP data for use in McIDAS-V will be driven by the needs and desires of the user community.
- For more info, come to Booth #431