



# Partnerships

**NASA Decadal Survey  
HypsIRI Science Workshop**

**23 October 2008**

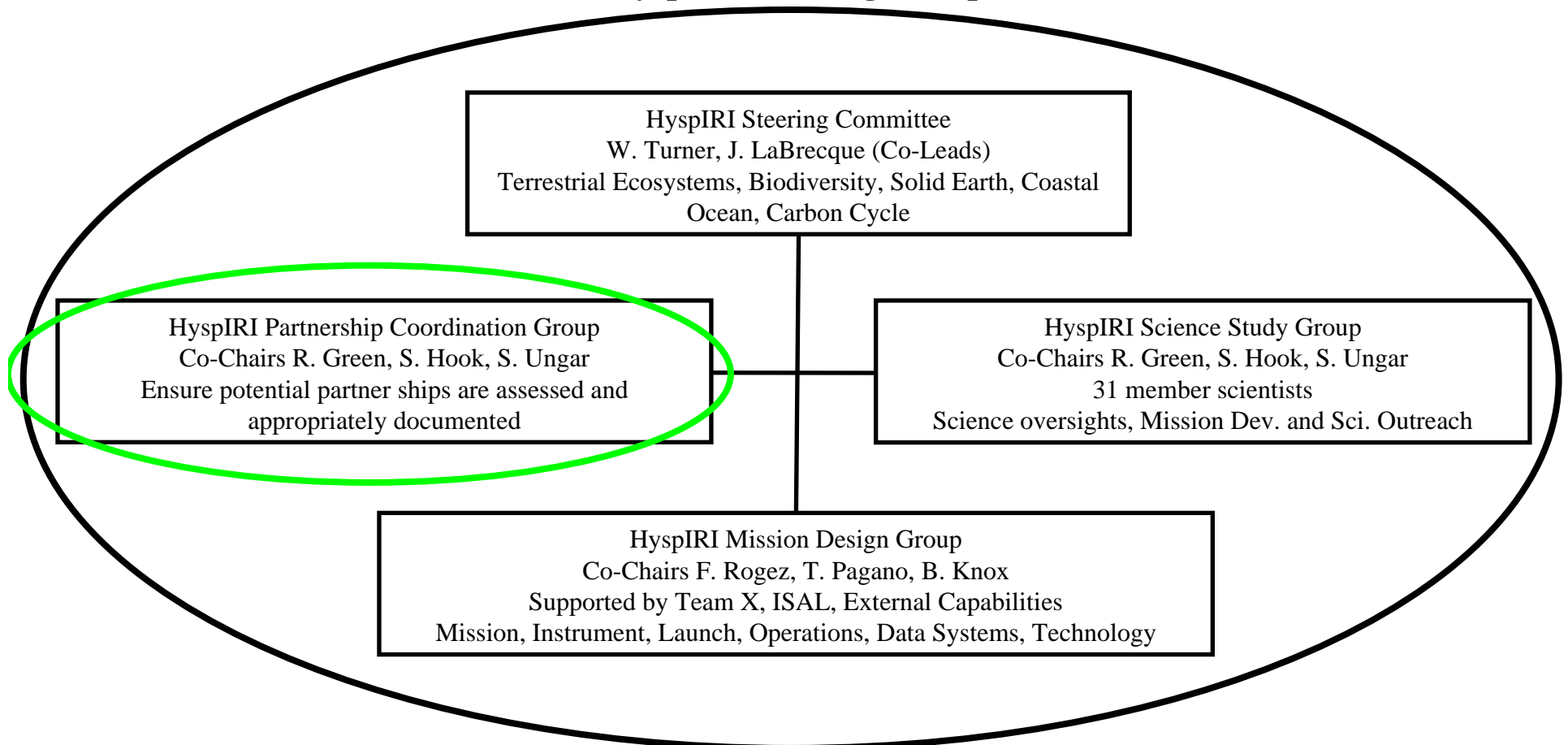


# HyspIRI Execution Structure



The HyspIRI Working Group (HWG) will be managed by the HyspIRI Steering Committee that represents representatives of the principal HyspIRI science disciplines. The HWG will coordinate the activities of the Science Study Group, the Partnership Coordination Group and the Mission Design Group

## HyspIRI Working Group





# Partnerships



- **We are interested in exploring partnership opportunities. Both International and Domestic**
- **Some Opportunities**
  - Vicarious calibration
  - Data Processing
  - Parameter validation
  - Science and level 3 and level 4
  - Downlink
  - Others (Launch, Spacecraft, Comp-Instrument)
- **Step to establish partnerships**
  - Possible letter of interest on institutional letterhead
    - Background
    - Partnership opportunities of interest
    - Technical contact
    - Governmental contact
- **Mail or PDF to**
  - To Seven Neeck, NASA HQ
  - CC Woody Turner and John Labrecque, NASA HyspIRI Program Leads, Robert Green, Simon Hook



## Example: Initial area of interest Australia



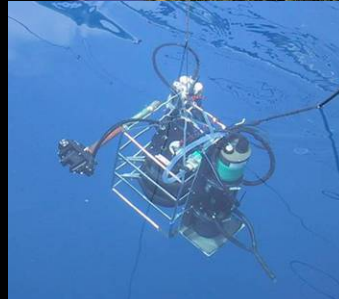
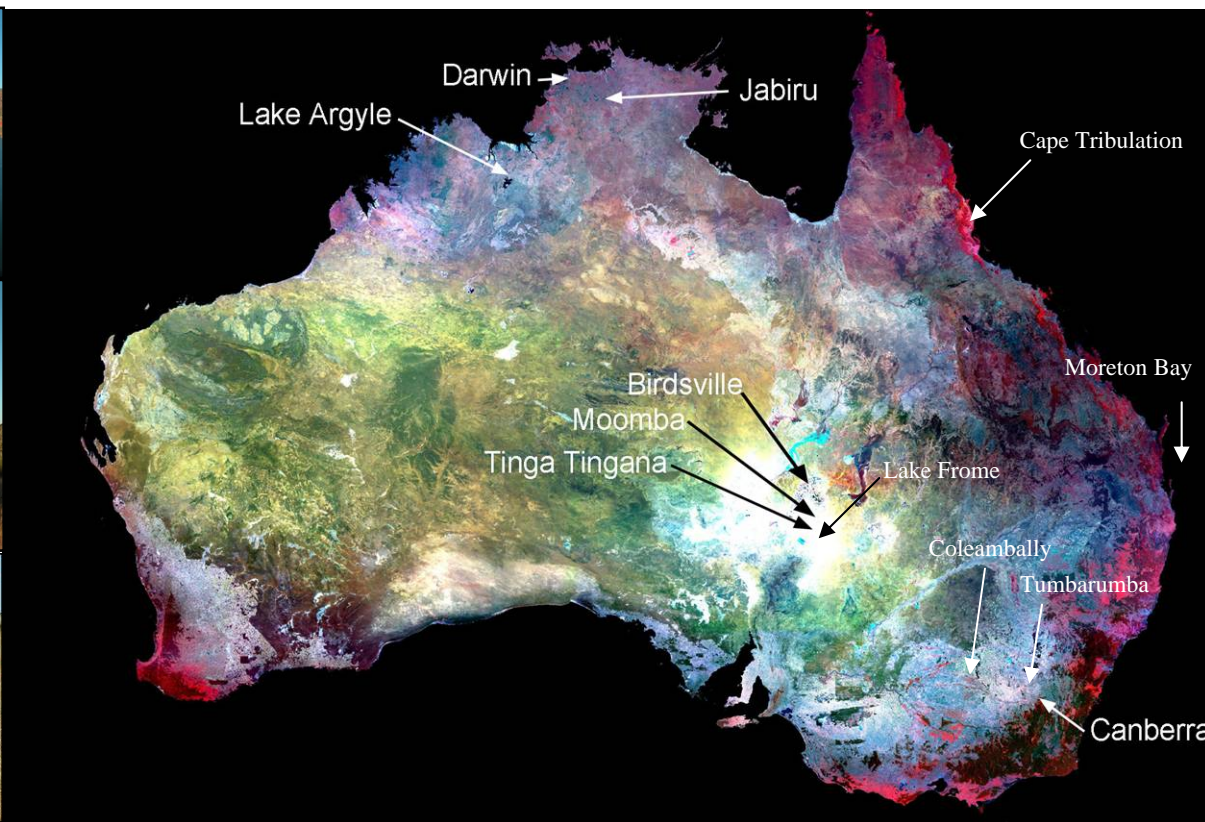
- Ground vicarious calibration
- Science and parameter validation sites
- Downlink contribution that adds margin and robustness
  - Tasmania and Perth?
- Ground processing contributions
- Science contributions in the Asia Pacific region.
- and more....



# Australia Radiometric Cal/VAL Sites for Optical and Microwave Satellites



- Australia has a large variety of well instrumented and characterised sites (bright-, dark- and uniform targets) for radiometric and geometric sensor calibration







# Opportunities for Australia National Investment into X,L,S-Band Network

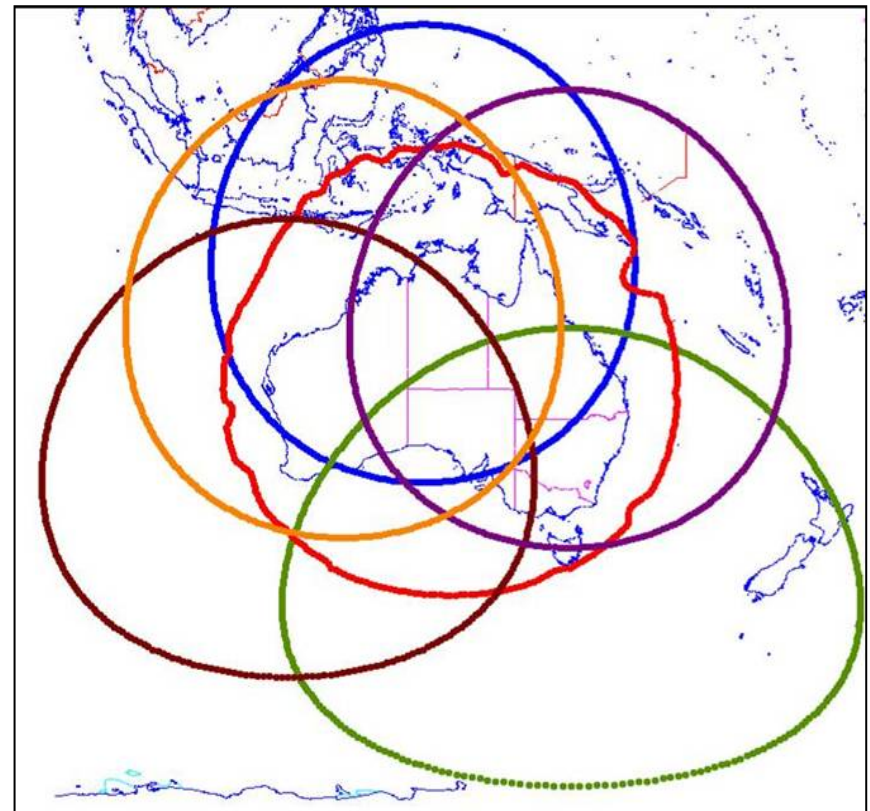


## Challenges/Needs:

- Coordination of whole network needs improvement, to cope with timing conflicts and redundancy
- Improved national data exchange for near real-time support for e.g.. disaster response
- Expansion of national X-band satellite-reception network underway
- Standardizing processing and distribution of EO satellite data



Tasmanian Earth Resources Satellite Station (TERSS)





# International Satellite Imaging Spectroscopy – ISIS Working Group (First meeting 2007)



Karl Staenz (ATIC), Andreas Muller (DLR), Hermann Kaufmann (GFZ), Hiroji Tsu (ERSDAC), Nagamitsu Ohgi (JAROS), Duke Takahashi (WSI), Jan van Aardt (CSIR), Greg Asner (Carnegie), Bryan Bailey (USGS), Joe Boardman (AIG), DeWayne Cecil (NASA/USGS), Rob Green (JPL), Bruce Quick (USGS), Steve Ungar (NASA), Stephen Ward (Secretariat), Alex Held (CSIRO), Benoit Rivard (Univ Alberta),



# Another Working Group?

## What is it about?



- Provides a forum for technical and programmatic discussion and consultation among national space agencies, research institutions and other spaceborne IS data providers.

### ISIS WG Goals:

- To share information on current and future spaceborne imaging spectroscopy (“hyperspectral”) missions,
- Seek opportunities for new international partnerships, to the benefit of the global user community.
- Specific discussions on:
  - interoperability among missions,
  - ‘best practice’ mission implementation,
  - mass data management challenges and
  - Establishment of global reference cal/val sites and regular field campaigns





# Addresses for Letters of Interest



O

teven P. Neeck

cience Mission Directorate

ASA Headquarters

ashington, DC 20546, USA

1 202 358 0832 tel., +1 202 538 4466 mobile,

1 202 358 2770 fax

teven.Neeck@nasa.gov

Robert O. Green

AVIRIS Experiment Scientist

Jet Propulsion Laboratory, MS 306-431

4800 Oak Grove Dr

Pasadena, CA 91109

Tel: (818) 354-9136, Fax (818) 354-8887

Email: [rog@jpl.nasa.gov](mailto:rog@jpl.nasa.gov)

Simon J. Hook

Jet Propulsion Laboratory

MS 183-501

Pasadena, CA 91109

Office: 818-354-0974

Mobile: 818-640-8344 Fax: 818-354-5148

Email: [simon.j.hook@jpl.nasa.gov](mailto:simon.j.hook@jpl.nasa.gov)

C

oody Turner

rogram Scientist, Biological Diversity

cience Mission Directorate

ational Aeronautics and Space Administration

00 E Street SW

ashington, DC 20546-0001