



# BNSC report to IPDA

## July 2008

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STFC / Rutherford Appleton Laboratory

13/08/2008



Science & Technology Facilities Council  
Rutherford Appleton Laboratory



# Organisation



- BNSC is a partnership of organisations



# BNSC Partnership

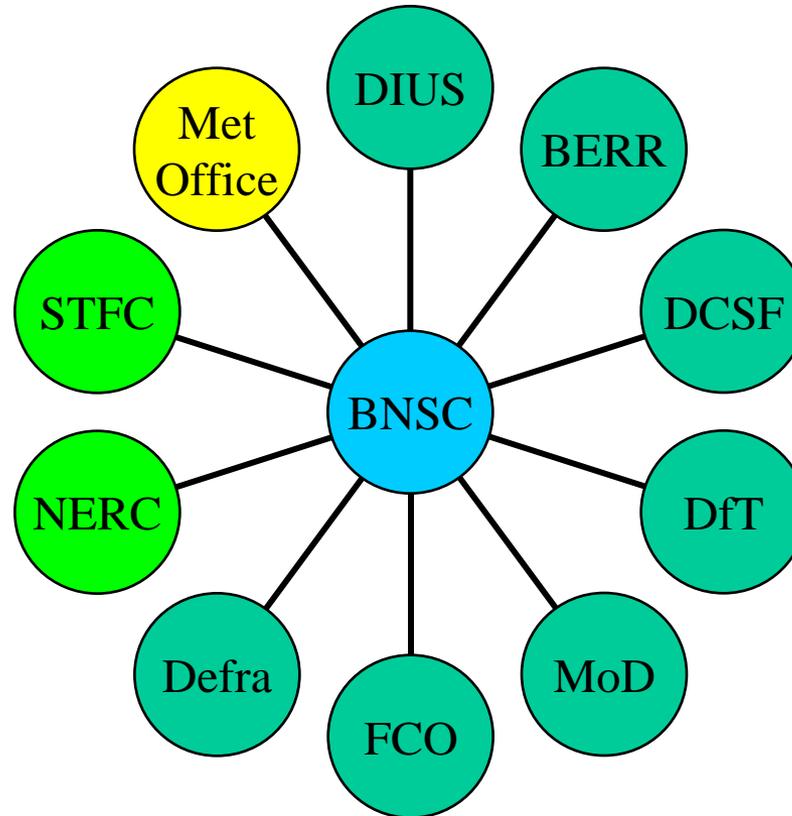
**The Met Office**

**Science and  
Technology  
Facilities Council**

**Natural Environment  
Research Council**

**Department for  
Environment,  
Food and Rural  
Affairs**

**Foreign and  
Commonwealth  
Office**



**Department for  
Innovation,  
Universities and  
Skills (DIUS)**

**Department for  
Business,  
Enterprise and  
Regulatory  
Reform**

**Department for  
Children, Schools  
and Families**

**Department for  
Transport (DfT)**

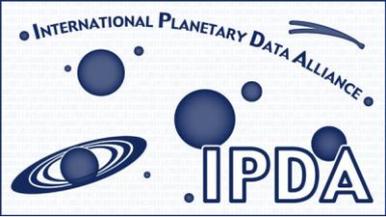
**Ministry of Defence**



# Organisation

- BNSC is a partnership of organisations
  - BNSC office moving to Swindon
- STFC
  - Pays international subscriptions
    - ESA, ESO, CERN, etc.
  - Funds science
  - Operates laboratories
    - RAL, Daresbury, ATC, Chilbolton





# Planetary Groups



- Open University
- Imperial College
- Oxford University
- Mullard Space Science Laboratory
- Leicester University
- Aberystwyth (rovers)
- RAL (instrumentation)

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# Missions

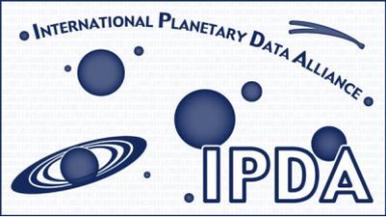


- Cassini / Huygens
- Rosetta
- Mars Express
- Venus Express
- ExoMars
- BepiColombo

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# Possible future missions



- ESA
  - Jupiter Europa
  - NEO sample return
- Other
  - MoonLITE (study)





# Instruments



- Ptolemy (Rosetta)
- Aspera-3 (Mars Express)
- Aspera-4 (Venus Express)
- D-CIXS (SMART-1)
- C1XS (Chandrayaan)
- MIXS (BepiColombo)
- Raman-LIBS (ExoMars)

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# Types of Data



- Remotely sensed
  - Imagery
  - Spectroscopy
- In-situ
  - Particles
  - Magnetic fields
- Surface
  - All the above
  - Rock and atmospheric samples





# Data



- Have extensive archives of astronomical, atmospheric and Earth Observation data
- Use ESA or NASA for planetary archives
- Access to data
  - Extend via Virtual Observatory?
    - AstroGrid

