



# GSICS Principles

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# Background

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- Aims:
  - Concise statement to capture the underlying principles
  - To allow us to judge whether candidate products adhere to GSICS Principles
  - Agree a common story
  - For publication on websites, use in presentations, etc.
- Development:
  - Email iteration within gsics-dev mailing list
  - Discussion at GRWG/GDWG meeting March 2012
  - Finalised by email
  - Propose to Exec Panel for adoption



# GSICS Principles

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- **Systematic** generation of **inter-calibration** products
  - for Level 1 data from passive **satellite sensors**
    - for weather, climate and other environmental applications.
  - to **compare, monitor** and **correct** the calibration of *monitored* instruments to *community references*,
    - using common methodologies,
    - following international standards and community best practice,
    - and, ultimately, tie these to SI-traceable standards.
  - by generating *calibration corrections*
    - for both Near-Real-Time
    - and Re-Analysis applications
  - with specified uncertainties
  - through well-documented, peer-reviewed procedures
  - based on various techniques to ensure consistent and robust results,
    - which are applicable over a broad range of observing conditions.
- Deliver these inter-calibration products to users
  - by providing free and open access,
  - adopting community data standards.
- To promote
  - greater understanding of instruments' absolute calibration
    - by analysing the root causes of biases
  - retrievals that are more accurate and more consistent globally,
  - inter-operability for more accurate environmental, climate and weather forecasting products

