

Open Code Future for Space Science

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Open Data policy has been a success!

- Earth science data has significant commercial use
- Other space science data has been heavily used by scientists
 - More HST papers from archival data use than from original observations
- Important for public perception of science
- NASA policy is the basis of national data policy

Codes: Next Step

- Simulations can only be checked by running codes
- Many analyses can only be repeated and extended if the codes that were used in the data analysis are available
- Enormous investment in code development
- Make codes available will save time and enable more science. Also essential for verification of results

Open Code Models

- Code releases
 - Codes are private until release with data or papers
- Open Source model
 - Public development of code
 - Examples: LSST, MESA,..
- Issues of credit, stability, support,...
- Study could identify best practices in different fields and subfields and recommend policy