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Earth Information System (EIS)

Monthly Highlights

April 2023

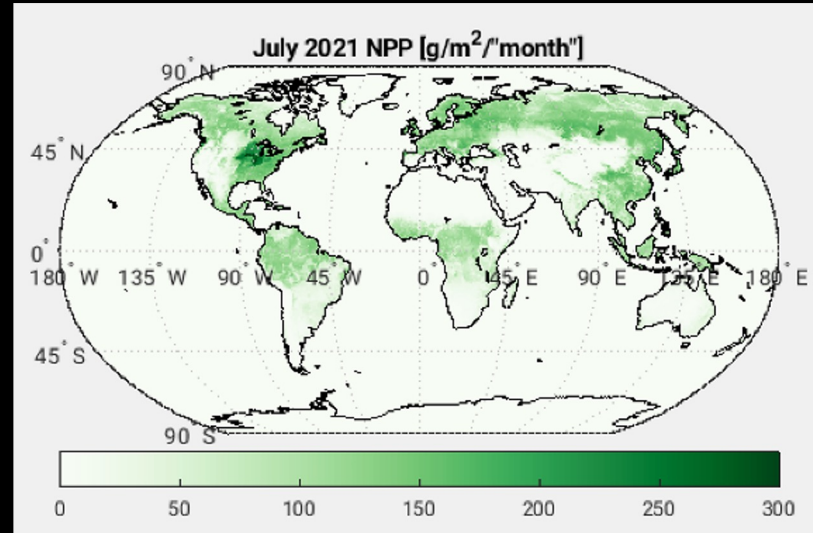
Quasi-operational processing of land-atmosphere CO₂ flux

Atmospheric models require gridded estimates of natural fluxes and human emissions as a starting point to infer refinements, but delivery of such estimates is often slow, delayed months or years behind real time.

Through EIS, we explored several options to expedite processing of the widely used CASA-GFED3 model.

The revised workflow leverages NASA HEC investments in large scale data analytics and will support a new release of the 20-year data product this summer.

New data will be produced at finer spatial and temporal scales than was possible with previous versions, with regular monthly updates.



EIS Engagements in April

Organization/ Meeting	Thematic Area	Outcome
NASEM Dissemination Meeting: U.S. Urban Greenhouse Gas Emissions Information Needs	GHG	Dialogue on urban stakeholder needs, coordination on information system tools.
GEWEX integrated product workshop	Freshwater	Coordination with the international groups on closing the global water budget
WMO state of the water report working group	Freshwater	Contributing to the upcoming state of the water report with EIS synthesis
USFS-NASA joint applications workshop: Addressing land and water monitoring needs using remote sensing data	Fire	Expanded engagement with USFS on active fire tracking (fire line containment) and fire severity assessments.
Brazil meetings on Fire Detection, Tracking, and Impacts (IBAMA-PrevFogo)	Fire	Alignment with EIS Phase 3 for expanded stakeholder engagement and impact.
Framework for Assessing Changes To Sea-level (FACTS)	Sea level	Rutgers Univ. researchers began implementing FACTS on EIS, in coordination with SMCE cyberinfrastructure experts