

- Introduce the AM-1 Outreach Team at GSFC
 - formed to serve the ECSO & build Earth Observatory
- How to share EOS data with the general public?
 - reasons for developing a common Web space
- A walk through the Interactive Earth Observatory
- Visualization experiments & samples
- Progress made & milestones
- Conclusions & recommendations

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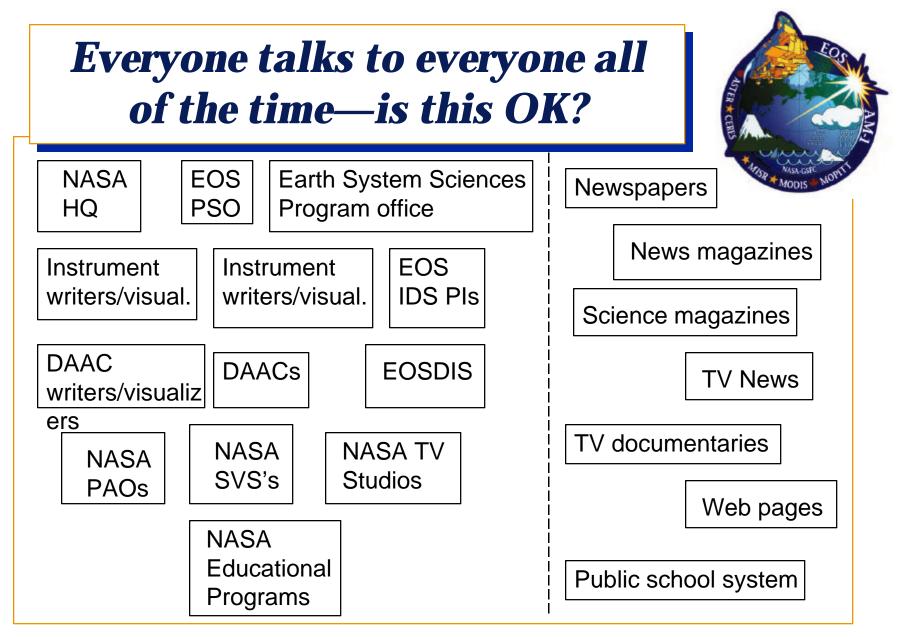
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AM-1 Executive Committee for Science Outreach

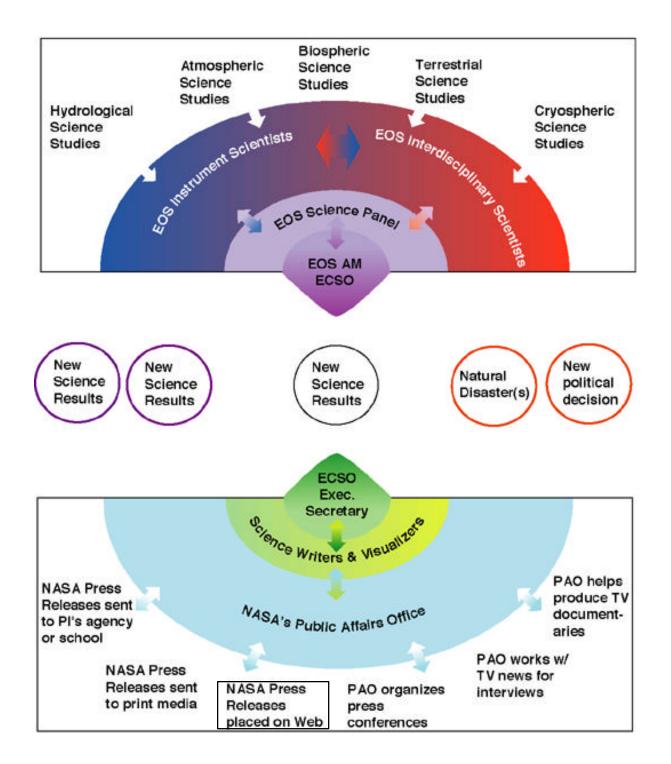


- Nine members of EOS community chosen
 - represent AM-1 instruments & interdisciplinary teams
 - each selected 5 science panelists (45 total in the network)
- Will teleconference bi-monthly to review latest
 - although, occasionally stories will require 24-hour turnaround

• "Harvests" new science results for public release

- prioritizes EOS PSO promotion of candidate news stories
- Provides a sound gateway for info flow
 - amplifies stories' play in public media
- Links PIs with AM-1 writers & visualizers

- press releases produced to scientists' satisfaction



ECSO's Players

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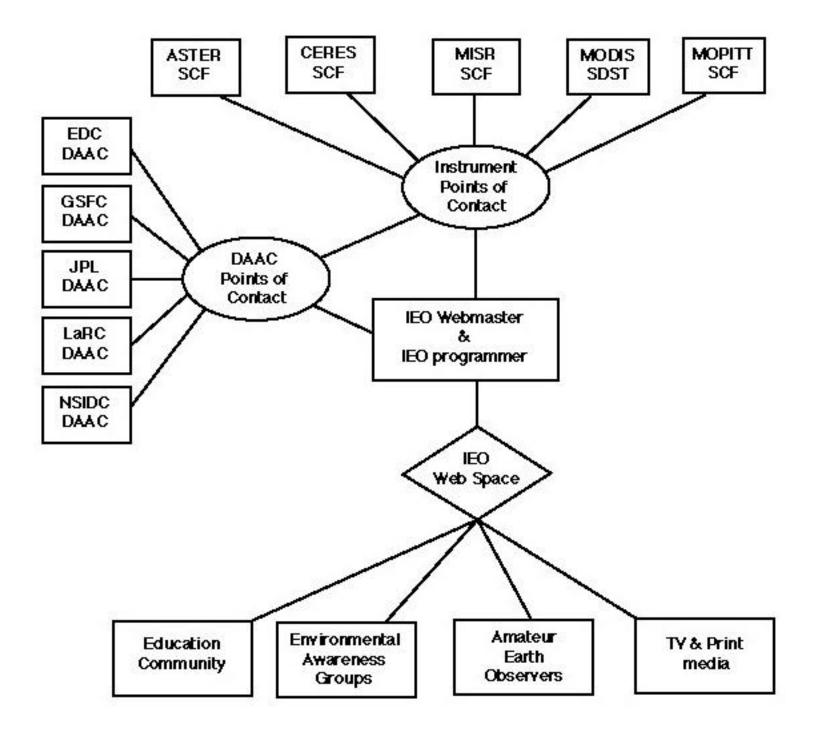




Interactive Earth Observatory



- AM-1 featured, but will represent all NASA's Earth science missions
 - with links to instrument & DAAC Web pages
- Global data sets of key climate change parameters
- Higher-res regional & local data products
 - data products easily understandable & accessible to public
- Everyone "chips in"
 - requires input & guidance from science community
 - processing & formatting of data by DAACs
 - writing & visualization expertise of AM-1 outreach team
 - contributions solicited from distributed EOS community



Visualization Experiments & Samples



- which products ready in launch + 60 days period? Priorities?
- who are the primary points of contact from each disc. group?
 - some MODLAND, Atmosphere contacts identified
 - MOCEAN...?

Anticipate news events whenever possible

- El Nino & La Nina
- Wild fires
- Changing seasons

Some Candidate AM-1 Global Data Sets

• global biosphere (MODIS)



- fires & fire susceptibility; based upon NDVI & surface temp (MODIS)
- surface temperature of seas & lands (MODIS)
- spatial dist. (horiz.—total & in 2 layers) of water vapor in troposphere
- spatial dist. (vert. & horiz.) of clouds & aerosols (MODIS & MISR)
- cloud radiative (shortwave) forcing (CERES)
- cloud radiative (longwave) forcing (CERES)
- spatial dist. (vert. & horiz.) of carbon monoxide (MOPITT)
- spatial dist. (vert. & horiz.) of methane (MOPITT)
- elevation maps (ASTER—initially for certain scenes, global after 4 years)
- a globe in the visible (MODIS, MISR)
- others...?

Goals & Objectives

- Develop closer working relationship with science community
 - identify points of contact from each science team
 - solicit guidance on content of outreach activities
 - scientists feedback on outreach plans

• Establish formats for submitting data products

- need good balance b/t AM-1 Vis Team & sci teams efforts
- automate process wherever possible
- Long-term goals
 - "showcase" AM-1 scientists' work in the public media
 - render data products easily accessible via Web
 - provide context & background info for public "translators"



Progress & Milestones

- Brainstorming essentially complete
- Textual & visual materials being assembled now
- Converting NASA Fact Sheets into case studies
- Online Style Guide under development
- Exploring options for indexing & searching site
- News releases being actively solicited now
 - MAS demonstration of MODIS' fire observation capabilities
 - Others...?
- Simplified, interactive models for Laboratory?
- Internal review prototype completed Sept. 1, 1998
 - something in every room

David Herring, EOS AM-1 outreach coordinator

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Conclusions & Recommendations



- AM-1 Team creates POC database
 - teleconference interactions among scientists, DAACs, & Earth Observatory staff as needed
- AM-1 Team develops template for submission of case studies from scientists &/or DAACs
 - see L. Remer's submission to Fire Monitoring Web site
- AM-1 Team creates database of developing stories
 - accessible via semi-secure Web site
- Scientists identify what products ready, & when
 - over what regions?
 - at what temporal & spatial resolutions?
 - how to automate submission to Earth Observatory

David Herring, EOS AM-1 outreach coordinator

Global Fire Monitoring Web Site



Presentation to MODIS Science Team - 6/24/98

- http://modarch.gsfc.nasa.gov/fire_atlas
- Began as exercise in producing a press release
 - MAS demonstration of MODIS' new fire monitoring capability
- White House OSTP wanted rapid response report on Mexican fires
 - opportunity to demonstrate our new team & test the system
 - hoped to garner added funding for a more robust global fire monitoring effort w/in EOS science community
 - would provide a new case study for the Earth Observatory
- Proved to be a good and valuable exercise
 - ~ 75K hits in just over 2 weeks
 - requests from Alachua County Fire Chief; Time magazine

David Herring, EOS AM-1 outreach coordinator

Lessons Learned

• Establish priorities right up front

- who is the product for?
- when is it due? (allow time for review!)
- how will it be shown?

• Break up task & delegate w/ clear deadlines

- clear, timely communications are essential
- complete hardest & highest priority tasks first
- finish prototype, then layer in "bells & whistles"
- AM-1 outreach team's primary purpose is public outreach
 - yet, we may be called upon to help produce scientific or political presentations

David Herring, EOS AM-1 outreach coordinator

