VAMOS Support Center and Data Archives

Sponsored by the NOAA Climate Program Office under CPPA

José Meitín

Steve Williams NCAR Earth Observing Laboratory

meitin@ucar.edu

sfw@ucar.edu





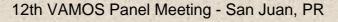


VAMOS Project Office

Meeting Support

- La Plata Basin U.S. Science Meeting (May 2008)
- VOCALS "All-Hands" Meeting (Nov 2008)
- VOCALS SWG Meeting (Arica, Chile- Nov 2008)







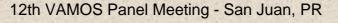


VAMOS Project Office

Web Support

- Provided Web and Teleconferencing capabilities
- Revised La Plata Basin, NAME and VOCALS websites
- Developed IASCLiP web site & mail lists
- Updated bibliographies for past projects









VOCALS-REx



Established VOCALS Regional Experiment (REx) Project Office

 Conducted monthly teleconferences with VOCALS-REX planning groups.

Led multiagency site survey team to Chile (June 2008)

- met with Arica airport authorities
- met with Iquique airport authorities
- visited Univ Arturo Pratt Marine Sciences
- negotiated group lodging
- negotiated group rental cars







VOCALS-REx



- Provided Shipping and Logistical Support
- Prepared VOCALS-REx Operations Plan
- Presentation to IMARPE Directorate (Peru, May 2008)
- Met with Peruvian Civil Aviation











Shipping Air freight Surface **Customs** Assistance for all aircraft groups **Local Storage Documentation** Translations Hazmat

Lodging, Rental Cars Security Credentials (> 140 people)



MOS





VOCALS-REx Arica Operations Center



Forecast Support

(MeteoChile weather briefers)

Aircraft Coordination (Arica & Iquique operations)

- flight tracking & chat

On-site Logistics and Shipping Coordination

Network Administration

- dedicated network
- professional-grade firewall
- adequate power converters and transformers
- secondary access point at airport







VOCALS-REx Arica Operations Center



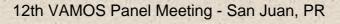
Field Catalog

- real time radiosonde to GTS (R/V Brown, GAUS, Paposo land site)
- provided 15-minute GOES-10 imagery over S America
- received reports and products from the R/V Brown on a daily basis
- first time photo albums into the catalog
- first time interactive COSMIC sounding maps/SkewTs
- provided QuikSCAT winds customized for the VOCALS domain
- 825,000 products, 58 GB in field catalog

Data Server

aircraft data exchange









VOCALS-REx Aircraft Operations

NSF/NCAR C-130 DoE Battelle G-1 FAAM BAe-146 NERC Dornier CIRPAS Twin Otter

120 hrs (18 consecutive night operations)
70 hrs
65 hrs
50 hrs
100 hrs

N701BM

VOCALS-REx Education and Outreach

In-Field Instruments Talks NCAR *Windows to the Universe*

~20 participating scientists Multiple "*Postcards from the Field*"

Local and National Media

Several institutional press releases, departmental newsletters/web articles Multiple local newspaper articles Local television reports National newspaper articles (Chile) multiple newspaper/magazines (Peru)

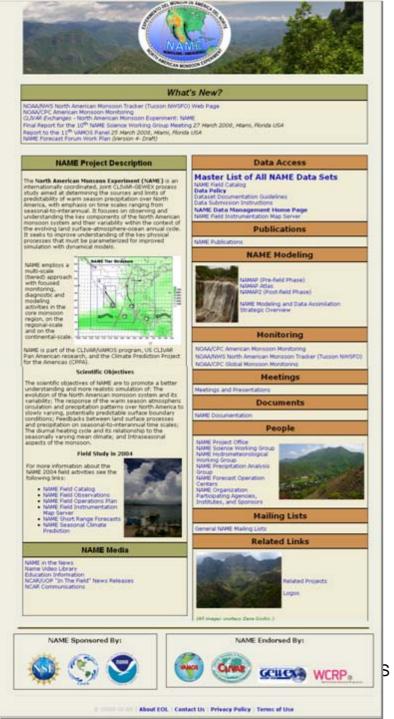












NAME Project Web Page

http://www.eol.ucar.edu/projects/name

NAME Archive Statistics

- Total Archive Datasets: 200
- Total Archive Size: 889 GB
- Total Archive Files: 1,101,241
- Total Number of Orders: 9,747

52% .edu 21% .gov

14% .com

13% others

• Unique E-mail Orders: 1,200 5 Panel Meeting - San Juan, PR

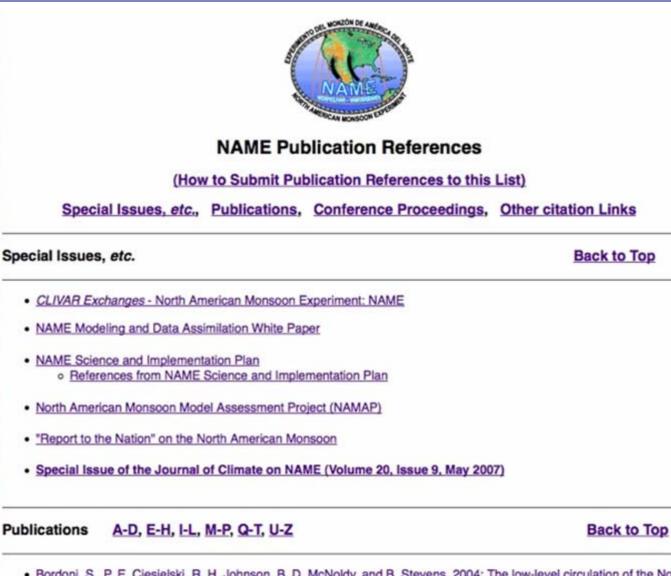
NAME Reprocessed Sounding status

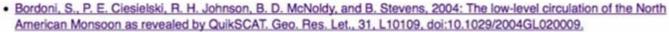
- CSU has provided humidity corrected high resolution soundings for all Tier 1 sites for the complete 4 month period (June September)
- All sites had a **daytime** heating **dry bias** correction
- The SMN sites and R/V Altair also had a cumulative distribution function correction applied that attempts to adjust the statistical properties of questionable humidity data from one site to that of good data from a nearby site
- NCAR/EOL will replace the uncorrected data currently in the NAME archive with the humidity-corrected soundings. Also, the NAME high resolution and 5-mb sounding composite data sets will be reprocessed





NAME Bibliography





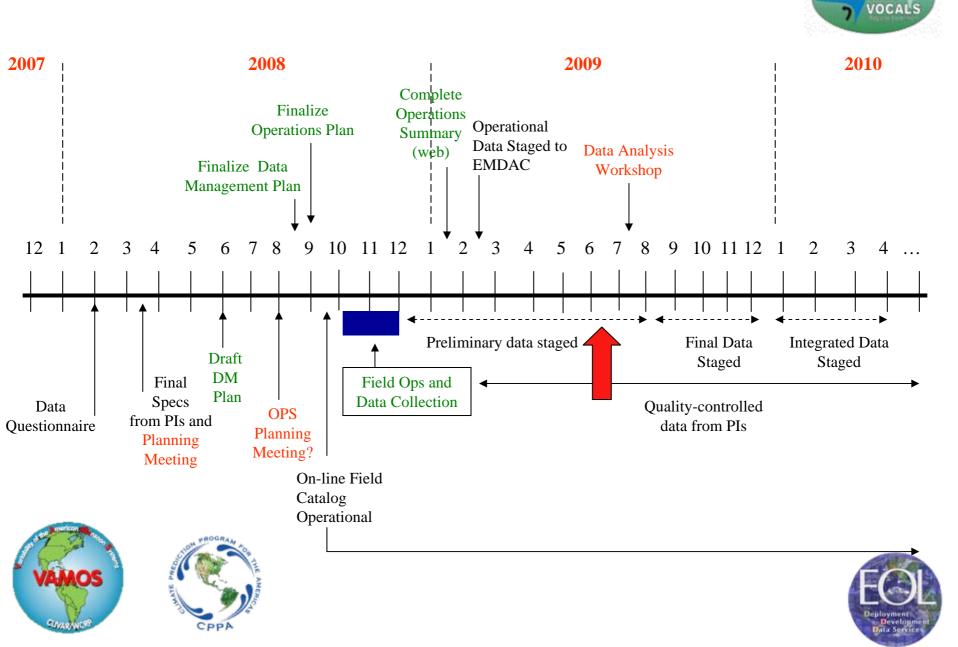


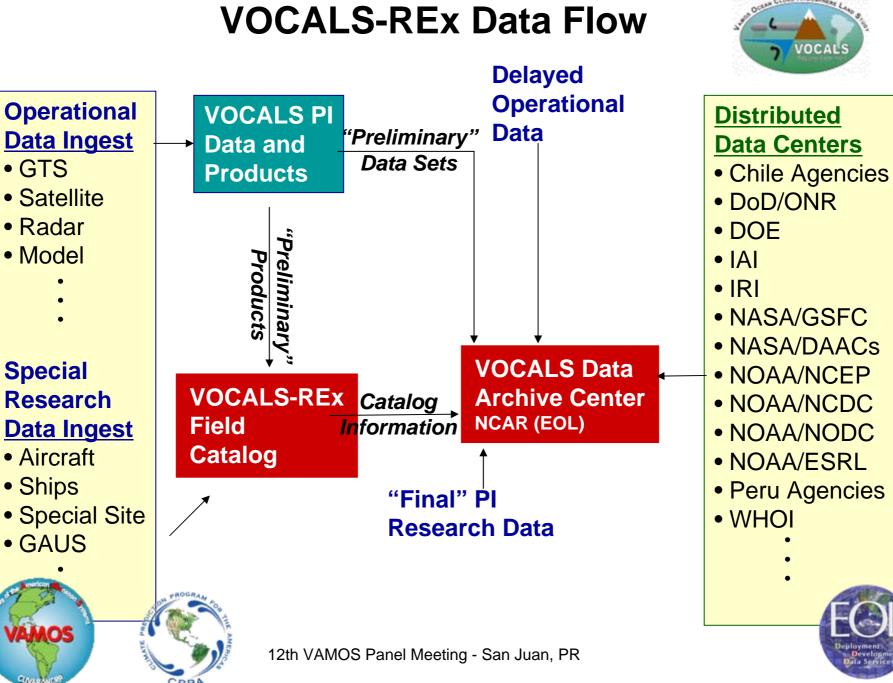
. Bosilovich, M. G., Y. C. Sud, S. D. Schubert, and G. K. Walker, Numerical simulation of the large-scale North American.



VOCALS-REx Data Management Timeline

OCEAN GLOUD ATMORPHY





🕹 VOCALS Data Access - Mozilla Firefox				
<u>File Edit View History Bookmarks Tools</u>	Help			0
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	Land Based: Precipitation			
VOCAES	GPCP Global Daily 1-Degree Combination Data [NASA]	2003-06-03	READ	
DATA BY CATEGORY	GPCP Global Daily Merged Precipitation Analyses Imagery [NASA]	2003-06-03	READ	
Aircraft Ancillary	GPCP Global Monthly 1-Degree Combination Data [NASA]	2003-06-03	READ	
 Hydrology Land Based 	GPCP Global Monthly Merged Precipitation Analyses Climatology Data [NASA]	2003-06-03	READ	
 Model Oceanography 	GPCP Global Monthly Merged Precipitation Analyses Imagery [NASA]	2003-06-03	READ	
 Photography Radar 	GPCP Global Pentad (5-Day) Precipitation Analysis [NASA]	2003-06-03	READ	
Radiation Satellite	NCEP/CPC Global CMAP Precipitation Analyses	2003-06-03	READ	
Ship Based	NCEP/CPC Global CMORPH Precipitation Analyses	2003-06-03	READ	
• Upper A http://	/www.eol.ucar.edu/projects/vocals/	2003-06-03	READ	
DATA BY SITE	TRIVIIVI Real-Lime Ramiali Analyses (3-n) [INASA]	2003-06-03		
 Antofagasta, Chile Arica, Chile 				
 Anda, onne Galapagos 	Model			
• Iquique, Chile	ECMWF Global Grids [NCAR/SCD]	2003-05-29		
 Paposo, Chile Paranal, Chile 	ECMWF Global Profiles [NCAR/EOL]	2009-02-18		
• St. Felix Is., Chile	ECMWF Global T399 Forecast Products [NCAR/EOL]			
	ECMWF Global T799 Forecast Products [NCAR/EOL]	2000-02-12		
Back to VOCALS	ECMWF Ocean Products Imagery [NCAR/EOL]	7 3	-	
Email comments & questions to codiac@ucar.edu	ECMWF WRF T799 0.22deg Resolution Analysis [Gadian/Leeds University]	VAMO	5	
	EDC 30 Arc-Second Elevation Data [EDC]	S.		
	FLEXPART Model ESRL 25KM Forecast Product [NCAR/EOL]	GUVAR NICHR		~
Done				





http://catalog.eol.ucar.edu/vocals/

- Reports/Summaries (Status, Mission, and Operations) 588 documents and 280 image files (0.32 GB)
- Research Platform Products (Aircraft, Surface, Lidar, Upper Air) 1,532 image files (0.44 GB)
- Operational Products (Satellite, Surface, Radar, Upper Air) 146,683 image files (30 GB)
- Model Output Imagery (Analysis and Forecast Fields) 675,811 image files (28 GB)
- TOTALS: 826,056 Files (58.86 GB)



VOCALS REx Data Management Activities



- Continue to populate the Master List as datasets are submitted to the archive (over 400 expected)
- Add publication citations and documents to archive
- Complete moving field catalog imagery into archive
- Upper air sounding processing and "composite" generation (common format with uniform QA/QC)
- Create C-130 aircraft "merged" dataset (flight parameter and PI data) at consistent temporal resolution
- Create combined multi-aircraft common parameter dataset in a consistent format







La Plata Basin **Regional Hydroclimate Project**

What's New



VAMOS Web Support

Description

 CLIVAR/VAMOS and GEWEX/GHP identified the Rio La Plata Basin as a dimate-hydrology system with components that are potentially predictable with useful skill from seasons in advance, and whose variability has important impacts on human activities.

 LPB provides a framework for integration of regional projects leading to improved predictions of the dimate and hydrology system, and the coordination of those projects at the highest international level (WMO/WCRP)

 LPB can act as an advocacy group to agencies that provide funding for science projects and the strengthening of the scientific infrastructure

 LPB aims to enhance the scientific infrastructure in



Meetings

Workshops and Meetings

CLARIS LPB Kick Off Meeting

Agreement

balance

Documentation

Links to Documents Official Logos

Contributing Projects

Regionally-Supported Programs CLARIS - LPB Web Site



designed to complement a suite of enhanced

Meetings and Presentations

http://www.eol.ucar.edu/projects/vamos/



South American Satellite Sectors

http://www.eol.ucar.edu/projects/pacs/



GAPP (GEWEX Americas Prediction Project)

Data Management Home Page

Data Access

Hydrometeorological Networks in the United States Science and Implementation Plan (2004) Project Home Page (NOAA/OGP)



PACS (Pan American Climate Studies)

PACS Pr http://www.eol.ucar.edu/projects/cppa/dm

Project Home Page (NOAA/OGP)

NAME (North American Monsoon Experiment)

Data Management Home Page Data Access 2004 Field Catalog 2003 Field Catalog Science and Implementation Plan Field Operations Plan Data Management Plan Project Home Page (UCAR/JOSS)



MESA (Monsoon Experiment South America)

Project Home Page (UCAR/JOSS)



EPIC (Eastern Pacific Investigations of Climate)

Data Management Home Page

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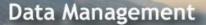
AMOS





Climate Prediction Project

for the Americas (CPPA)



SALLJEX (South American Low Level Jet Experiment)

Data Management Home Page Data Access Field Catalog Data Management Plan Science and Implementation Plan (2000) Field Operations Plan Project Home Page (UCAR/JOSS)



VOCALS (VAMOS Ocean-Cloud-Atmosphere-Land Study)

Data Management Home Page Data Access Science and Implementation Plan (2001) Project Home Page (UCAR/JOSS)

VOCALS

LPB (La Plata Basin)

Data Management Home Page Data Access Data Management Plan Climatology and Hydrology of the La Plata Basin (2001) Project Home Page (UCAR/JOSS)



CEOP (Coordinated Enhanced Observing Period)

Data Management Home Page EOP-3 and EOP-4 Data Access EOP-1 Data Access Phase-I Implementation Plan (2001) Project Home Page (Univ of Tokyo)



