



VAMOS

Ocean Clouds Atmosphere Land Study



VOCALS Data Archives

José Meitín, Linda Cully
and Steve Williams

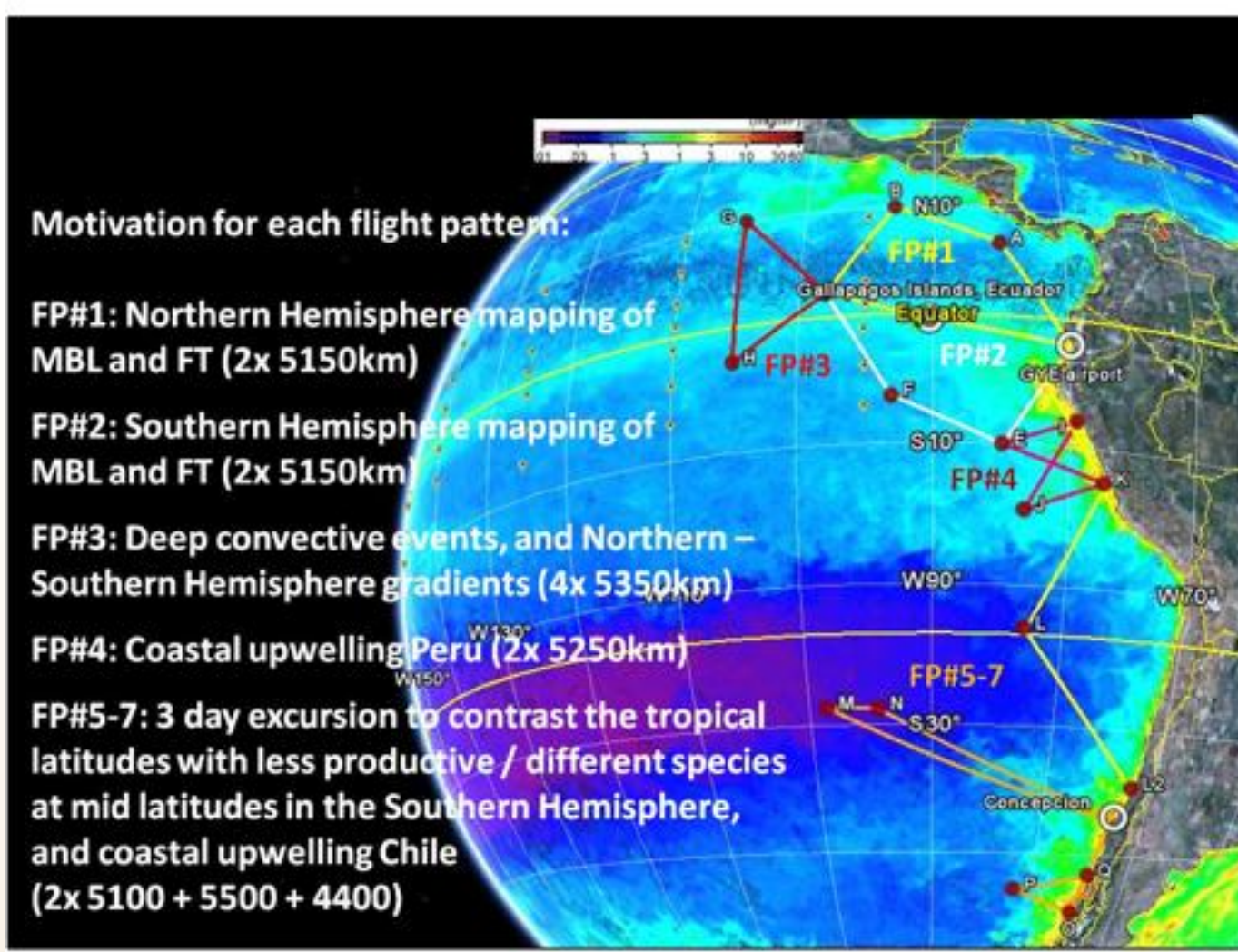
NCAR / EOL

*sponsored by NOAA's Climate Program Office
under the Climate Prediction Program for the Americas*



VOCALS Mailing Lists

List	Description
VOCALS	General VOCALS Information mailing list
VOCALS SWG	VOCALS Science Working Group <i>(RESTRICTED- Members Only)</i>
VOCALS-AIRCRAFT	Aircraft Flight Planning <small>NEW</small>
VOCALS-EMISSIONS	Emissions
VOCALS-LAND	Land Site Science
VOCALS-MODELING	Numerical Modeling <small>NEW</small>
VOCALS-REMOTE	Remote Sensing
VOCALS C130	C-130 Payload and Sampling
VOCALS-EO	Education and Outreach
PREVOCA	PRE-VOCALS model assessment
VOCALS-PLANNING	discussion of logistics planning for VOCALS-REX campaign



Eastern Equatorial Pacific Campaigns (proposed)

TORERO (Jan-Feb 2012, NSF/GV)

and DYCOMS-III (May-June 2013, NSF/C-130)

<http://www.eol.ucar.edu/projects/vocals/>



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VOCALS Web Site

VOCALS

VAMOS Ocean-Cloud-Atmosphere-Land Study

WCRP / CLIVAR / VAMOS / GEWEX Program

About VOCALS	What's New	Sponsors
<p>Summary Document of the VOCALS campaign (June 2007)</p> <p>The VAMOS Ocean-Cloud-Atmosphere-Land Study (VOCALS) is an international CLIVAR program the major goal of which is to develop and promote scientific activities leading to improved understanding of the SEP coupled ocean-atmosphere-land system on diurnal to inter-annual timescales. The principal program objectives are:</p> <ol style="list-style-type: none">1) the improved understanding and regional/global model representation of aerosol indirect effects over the SEP2) the elimination of systematic errors in the region of coupled atmospheric-ocean general circulation models, and improved model simulations and predictions of the coupled climate in the SEP and global impacts of the system variability <p>VOCALS is organized into two tightly coordinated components: i</p> <ol style="list-style-type: none">1) a Regional Experiment (VOCALS-REx), and2) a Modeling Program (VOCALS-Mod). Extended observations (e.g. IMET	<p>3rd VOCALS Science Meeting 21-23 March 2011 Hosted by the Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Florida</p> <ul style="list-style-type: none">• Registration Form• List of Participants• Logistics Information• Preliminary Agenda <p>Publications</p> <p>VAMOS Calendar</p> <p>Science and Planning</p> <p>Meetings and Presentations</p> <p>Science Working Group</p> <p>VAMOS Support Center at NCAR/EOL</p> <p>VOCALS Modeling Plan (Sept 2006)</p> <p>VOCALS Experimental Design Overview</p> <p>VOCALS Field Operations Plan</p> <p>Data Management</p> <p>Master List of All VOCALS International Data Sets</p> <p>VOCALS Data Management at NCAR/EOL - Data Submission Instructions</p> <p>RAF Documentation Summary</p> <p>VOCALS Data Management Plan</p> <p>VOCALS-REx Field Catalog</p> <p>STRATUS-07 Field Catalog</p> <p>VOCALS Twin Sites</p> <p>Documentation</p> <p>Publications</p> <p>Documents</p> <p>Logistics and Support (VOCALS-REx)</p> <p>Official Logos</p> <p>Media Resources</p>	<p>Sponsors</p> <p>NSF</p> <p>NOAA</p> <p>CPPA</p> <p>U.S. DEPARTMENT OF ENERGY</p> <p>UNITED STATES OF AMERICA</p> <p>U.S. DEPARTMENT OF AGRICULTURE</p> <p>U.S. DEPARTMENT OF COMMERCE</p> <p>NATURAL ENVIRONMENT RESEARCH COUNCIL</p> <p>Met Office</p> <p>Endorsers</p> <p>WCRP</p> <p>World Climate Research Programme</p> <p>GEWEX</p> <p>World Global Water Research Programme</p> <p>CLIVAR</p>

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Meetings and Presentations

VOCALS Data Archive

Data Submission Instructions

Publications



VOCALS Data Archive

(as of mid-March 2011)

http://data.eol.ucar.edu/master_list/?project=VOCALS

- **Total Datasets Listed:**
490
- **Percent Online/Linked:**
78%
- **Outstanding Datasets:**
22%

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VOCALS Data Access

VOCALS Data Sets

Data Set Name (Responsible Group/PIs shown in parentheses)	Date Posted	Info
Accompanying Archives		
AVISO Altimetric Data Product Archive		READ ME
First ISCCP Regional Experiment (FIRE) Data Sets [NASA-LARC]		READ ME
First ISCCP Regional Experiment (FIRE) II - Atlantic & Stratocumulus Transition Experiment (ASTEX) Data Sets [NASA-LARC]		READ ME
Joint Institute for the Study of the Atmosphere and Ocean (JISAO) Climate Data Archive [NOAA-Univ. of Washington]		READ ME
NASA Tropospheric Chemistry Program Global Tropospheric Experiment (GTE) [NASA]		READ ME
Tropical Instability Wave Experiment (TIWE) Buoy Data Sets [Univ. of South Florida]		READ ME
Aircraft		
VOCALS Facility Status Reports [NCAR-EOL]	2008-12-11	READ ME
VOCALS Operations Plan of the Day [NCAR-EOL]	2008-12-11	READ ME
Aircraft: CIRPAS Twin Otter		
CIRPAS Twin Otter Navigation and State Parameters [Albrecht/Univ. of Miami]	2010-12-13	
CIRPAS Twin Otter 94 GHz Doppler FMCW Radar [Albrecht/Univ. of Miami]		
CIRPAS Twin Otter Boundary Layer Turbulence (1 Hz) [Khelif/UC Irvine]	New 2011-02-16	READ ME
CIRPAS Twin Otter Boundary Layer Turbulence (40 Hz) [Khelif/UC Irvine]	New 2011-02-16	READ ME
CIRPAS Twin Otter CAPS Probe Data [Albrecht/Univ. of Miami]	New 2011-02-17	READ ME

Back to VOCALS

Email comments & questions to codlae@ucar.edu

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VOCALS Publications

• **Special Issues, Newsletters, Conference Proceedings, and Formal Publications listed: 65**

How to Submit

VOCALS Publication References

Publication References

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Special Issues, Newsletters, etc.

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- Editors: C. R. Mechoso, B. Albrecht, H. Coe, C. Fairall, G. Feingold, R. Garreaud, A. Hall, R. Weller, and R. Wood. VAMOS Ocean-Cloud-Atmosphere-Land Study (VOCALS), Atmospheric Chemistry and Physics - Special Issue, 2009.
- Newsletter of the Climate Variability and Predictability Programme (CLIVAR) Exchanges
- U.S. CLIVAR Variations, Dec. 2009, Vol. 7, No.3
- VAMOS! Newsletters

Publications

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- Abel, S. J., Walters, D. N., and Allen, G.: Evaluation of stratocumulus cloud prediction in the Met Office forecast model during VOCALS-REx, Atmos. Chem. Phys., 10, 10541-10559, doi:10.5194/acp-10-10541-2010, 2010.
- Allen, G.; Coe, H.; Clarke, A.; Bretherton, C.; Wood, R.; Abel, S. J.; Barrett, P.; Brown, P.; George, R.; Freitag, S.; McNaughton, C.; Howell, S.; Shank, L.; Kapustin, V.; Brekhovskikh, V.; Kleinman, L.; Lee, Y.-N.; Springston, S.; Toniazzi, T.; Krejci, R.; Fochesatto, J.; Shaw, G.; Krecl, P.; Brooks, B.; McKeeking, G.; Bower, K. N.; Williams, P. I.; Crosier, J.; Crawford, I.; Connolly, P.; Covert, D.; Bandy, A. R.: Southeast Pacific atmospheric composition and variability sampled along 20oS during VOCALS-REx, Atm. Chem. Phys. Discuss., 11, 681-744, 2011.
- Bretherton, C. S., Wood, R., George, R. C., Leon, D., Allen, G., and Zheng, X.: Southeast Pacific stratocumulus clouds, precipitation and boundary layer structure sampled along 20° S during VOCALS-REx, Atmos. Chem. Phys., 10, 10639-10654, doi:10.5194/acp-10-10639-2010, 2010.
- Chand, D., Hegg, D. A., Wood, R., Shaw, G. E., Wallace, D., and Covert, D. S.: Source attribution of climatically important aerosol properties measured at Paposo (Chile) during VOCALS, Atmos. Chem. Phys., 10, 10789-10801, doi:10.5194/acp-10-10789-2010, 2010.
- De Szoeke, S. P., C.W. Fairall, S. Pezoa, 2009: Ship observations of the Tropical Pacific Ocean along the coast of South America. J. Climate,



VOCALS Data Archive

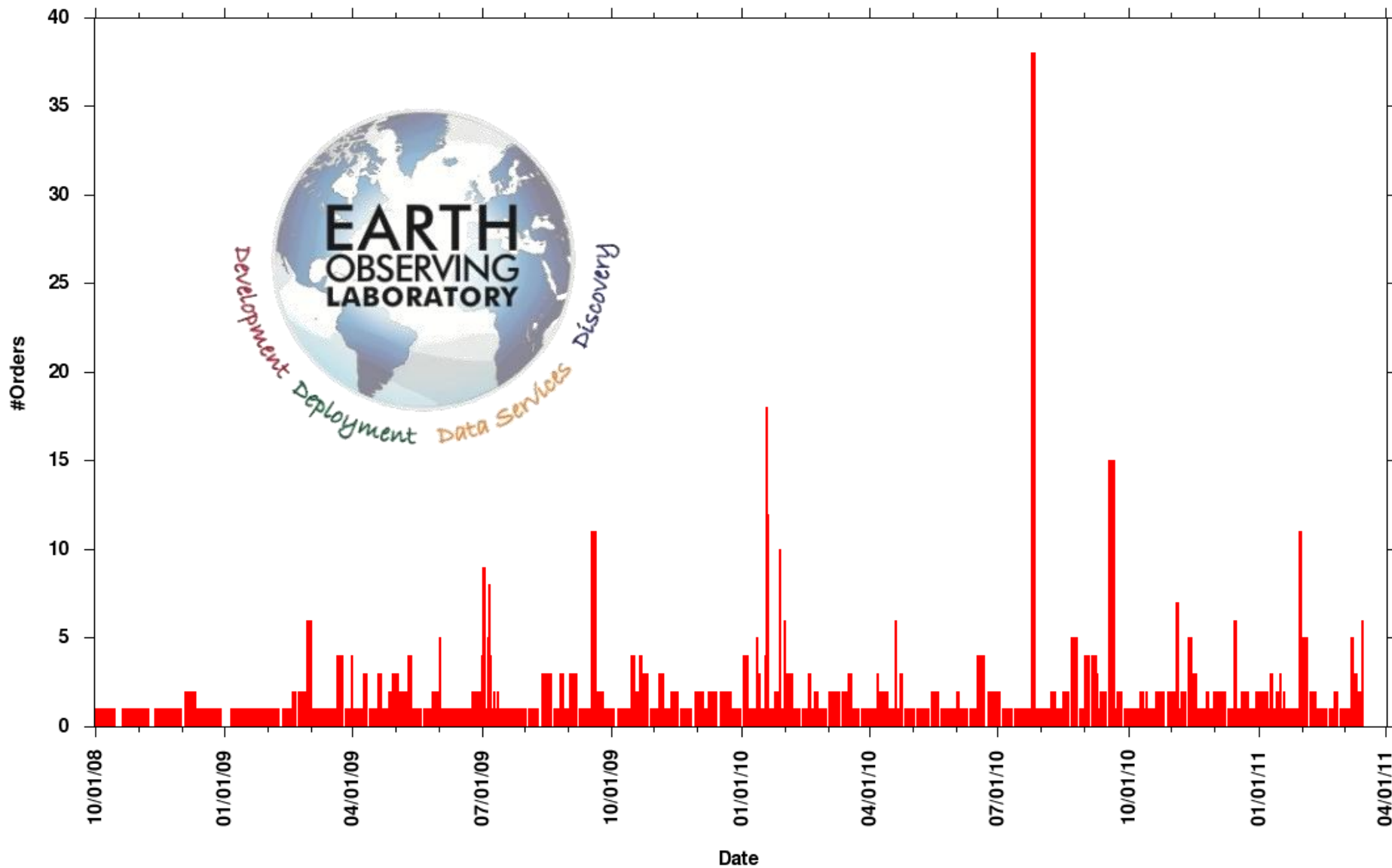
(as of Mid-March 2011)

Most Frequently Ordered Datasets: (# orders)

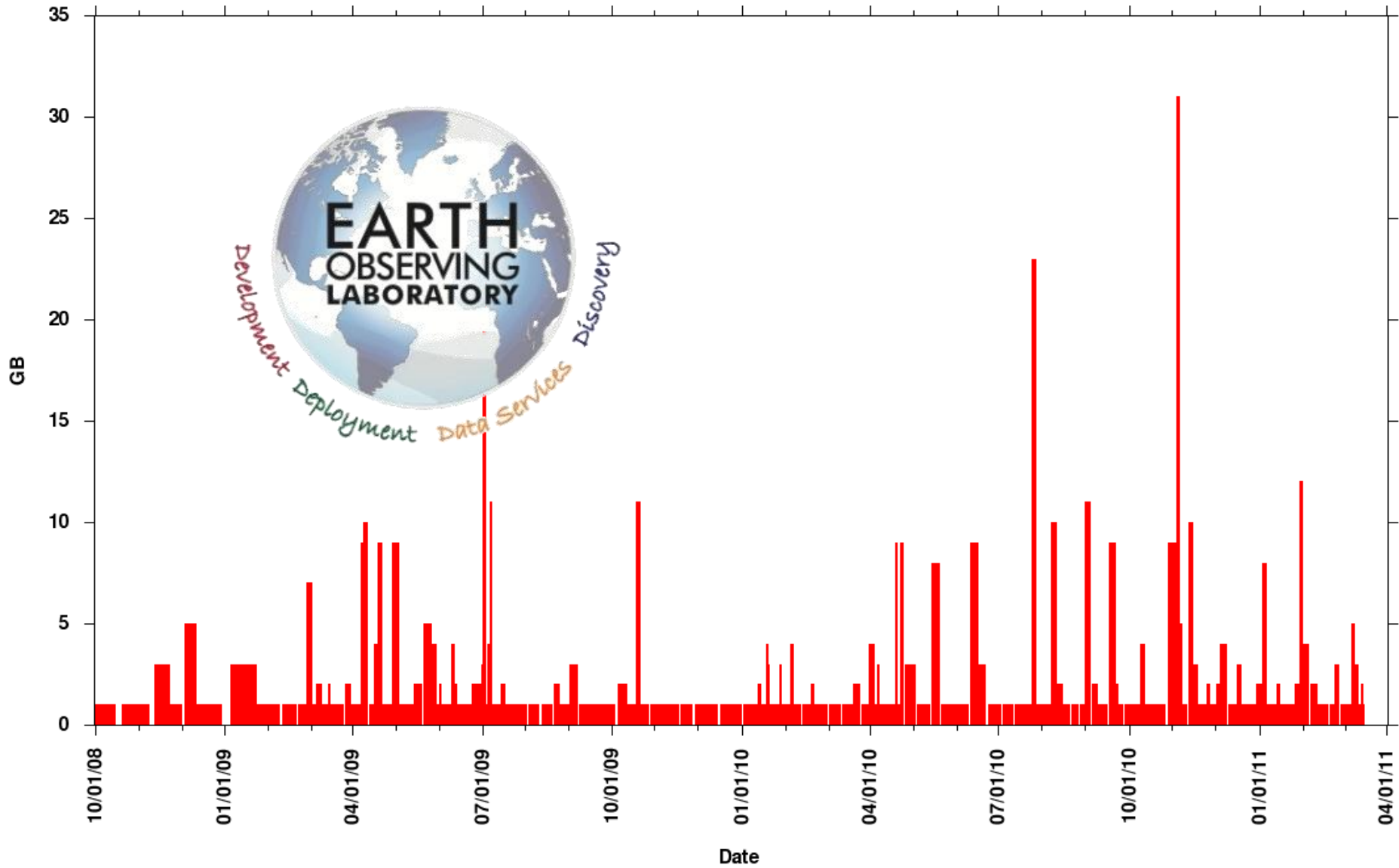
- NCAR/NSF C-130 Navigation, State Parameter, and Microphysics LRT (1sps) – **129**
- NCAR/NSF C-130 Navigation, State Parameter, and Microphysics HRT (25 sps) – **46**
- GOES-10 Imager Channels 2-5 data – **43**
- Iquique GAUS Radiosonde Data - **25**
- NOAA R/V Ron Brown Ship Observations – **22**
- NSF/NCAR C-130 Gas Phase Sulfur Dioxide (SO₂) Measurements - **18**
- NSF/NCAR C-130 Aerosol Combined Size Distributions and Integrals – **17**
- IMARPE R/V Jose Olaya GAUS Radiosonde Data - **16**
- GOES-10 Imager Visible Channel data –**16**
- NSF/NCAR C-130 Aerosol composition from AMS: NO₃, SO₄, NH₄ and ORGANICS -**15**
- GOES-10 1km Res Visible Imagery – **15**
- NSF/NCAR C-130 Gas Phase Dimethylsulfide (DMS) measurements - **14**
- GOES-10 Imager Visible Channel data (AREA files) – **14**
- Antofagasta GTS Radiosonde Data (mandatory/significant levels) - **13**

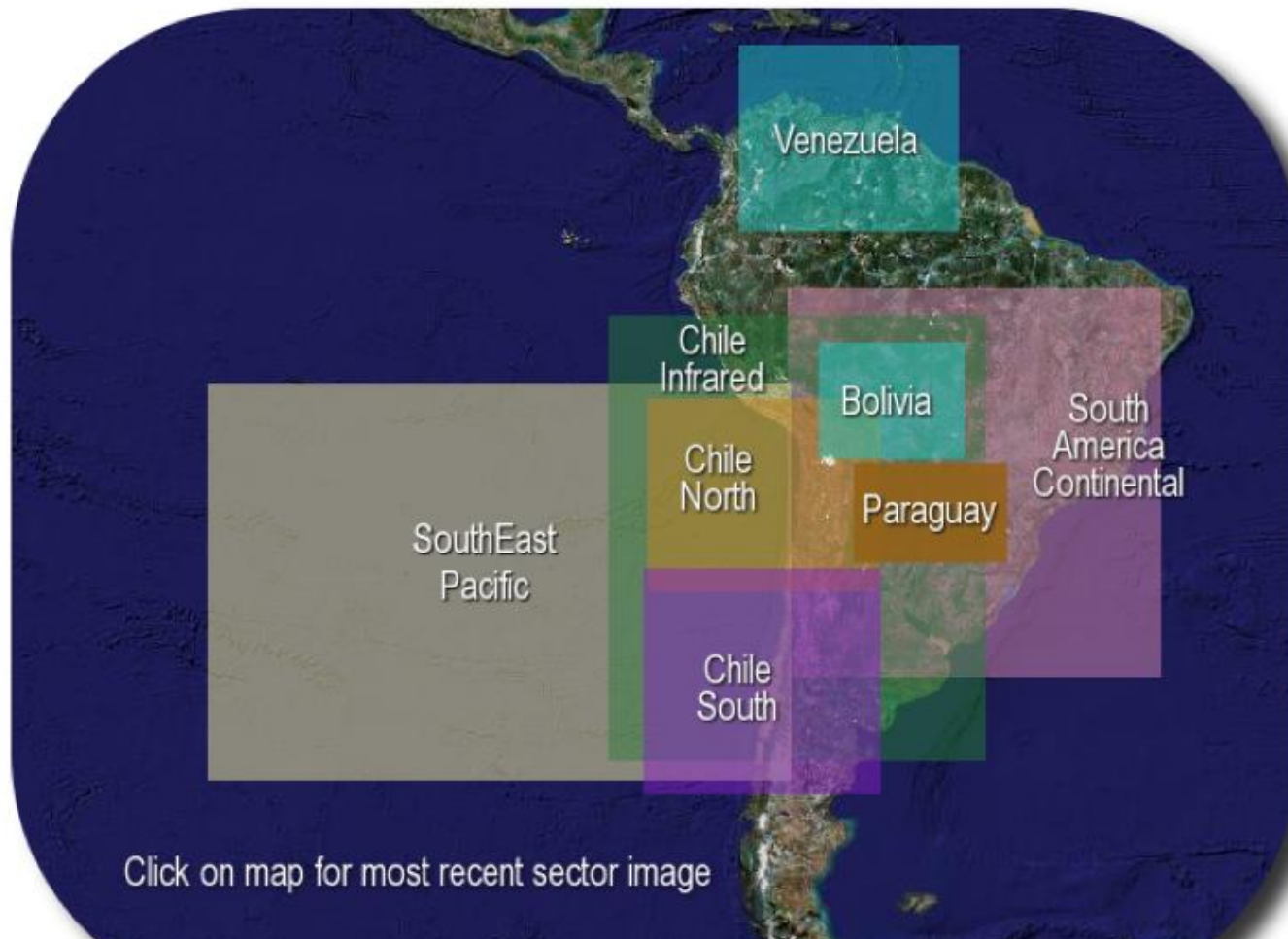
VOCALS archive data delivery

549 orders through March 2011



VOCALS archive data delivery
377 Gigabytes through March 2011



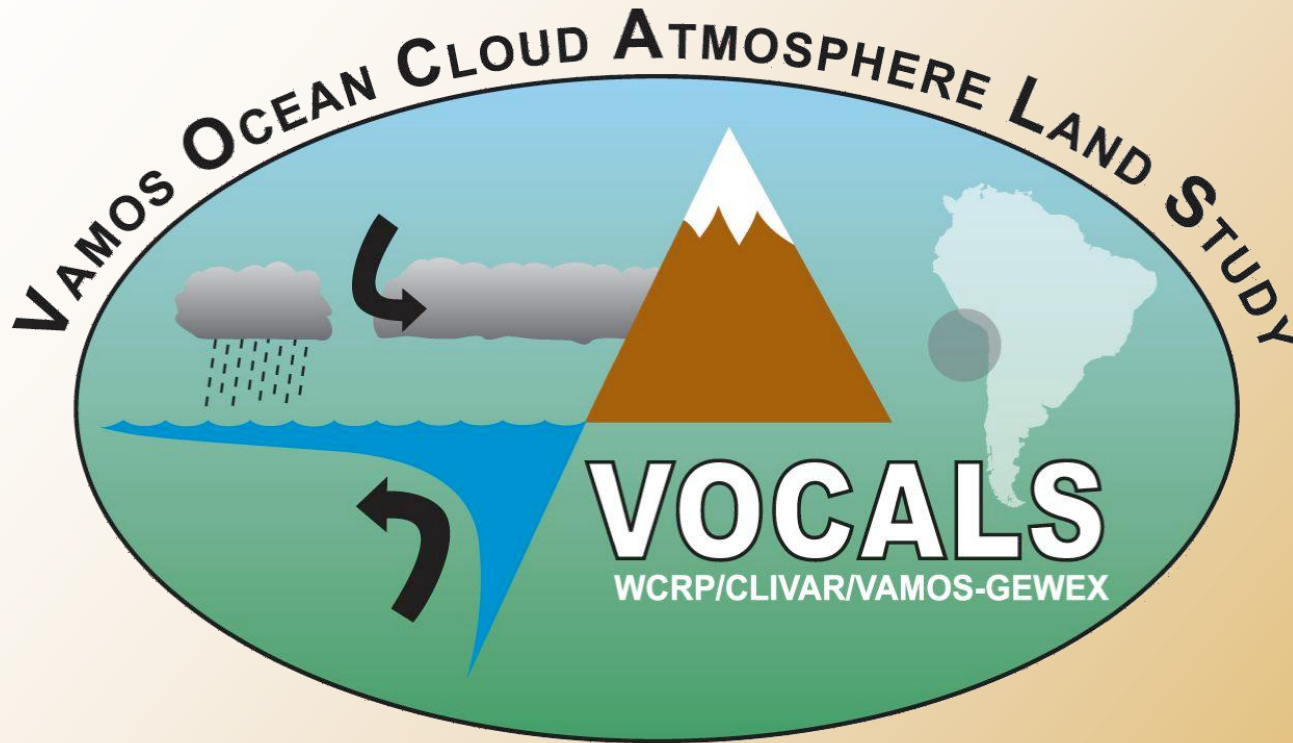


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Long-Term Archives

SouthEast Pacific Oceanic Sector (3-hourly)	South America Continental Sector (3-hourly)	Chile North (VIS & IR)	Chile South (VIS & IR)	Chile Infrared (Large)	Bolivia Sector (VIS only)	Paraguay Sector (VIS only)	Venezuela Sector (VIS & IR)
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<http://www.eol.ucar.edu/projects/vocals/>