



jcommops



jcomm IN-SITU OBSERVING PLATFORM SUPPORT CENTRE



OceanSITES

7.8 OceanSITES update

Hester Viola

JCOMMOPS

viola@jcommops.org

OceanSITES

Taking the pulse of the global ocean

Continuous measurements from
the deep ocean in real time

Outline

- Progress for OceanSITES program 2008-09
- Priority tasks for Project office in 2008-09
- Progress in achieving those tasks
 - Network Status information etc
- Future priority tasks

OceanSITES progress 2008-09



- Data management system developed
 - 10 DACs are providing NetCDF data (and metadata) or are working on the data
 - 2 GDACs providing NetCDF directories
- Updated maps and status documents on the website www.oceansites.org/network
- More contact with the BioGeoChemical community and plans for a MOIN to provide truly multi-disciplinary sites.

Project Office: Main Duties and Responsibilities



- Provide technical assistance and support to OceanSITES members
- Follow guidance of the Co-chairs of OceanSITES.
- Assist the OceanSITES Steering Committee to:
 - ensure that data is shared and used, continually assess the success of the network in delivering the required data.
 - consider system resources, logistics, data delivery (real-time, delayed-mode)
 - collate documentation for new sites and ensure updates to OceanSITES maps.
 - update and contribute to website content (general information, news, etc)
- Assist the OceanSITES Data Management team to:
 - Document data sources, in a centrally accessible Metadata Catalogue
 - Develop and improve data formats
 - Assist in assigning site NAMES for the data system and ensure that data flows are correct for new sites and address any problems to GDACs and responsible parties

What is an OceanSITES site?



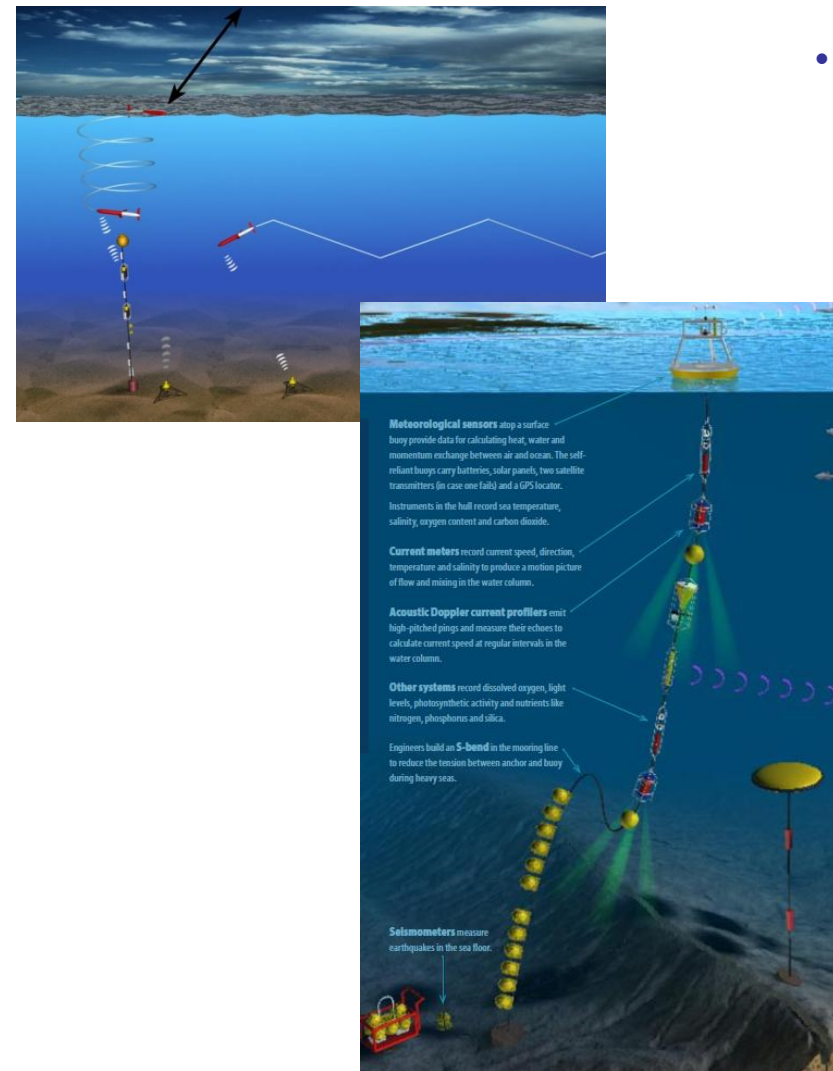
- Sustained in-situ observations at fixed geographic locations or zones, of ocean/climate related quantities at a sampling rate high enough to unambiguously resolve the signals of interest.

only truly Eulerian data.

Transport sections using whatever technique are included in choke points and major boundary current systems IF based on Eulerian data (moorings, gliders, tomography, etc)

Coastal timeseries can be included when they are instrumented to have multidisciplinary impact on the global observing system and if they are not part of a national coastal buoy network.

Agreement to make data public in near real-time for real-time data or as soon as processed and post-calibrated for other data.





Priority tasks for 2008-2009

- Updating documentation to get a clearer Network status
- Attendance at Wave Workshops and Changing Times: An International Ocean Biogeochemical Time-Series Workshop
- New map products to view network status
- Website updates (<http://www.oceansites.org>)
- Supporting the Data Management Team in:
 - Finalising Data Policy and Data Access documents
 - Getting data (and metadata) onto GDACs
 - Maintaining Site Catalog, monitoring data flows
- Communications mechanisms (email lists and groups)
- Sustained funding for project office

Network Status



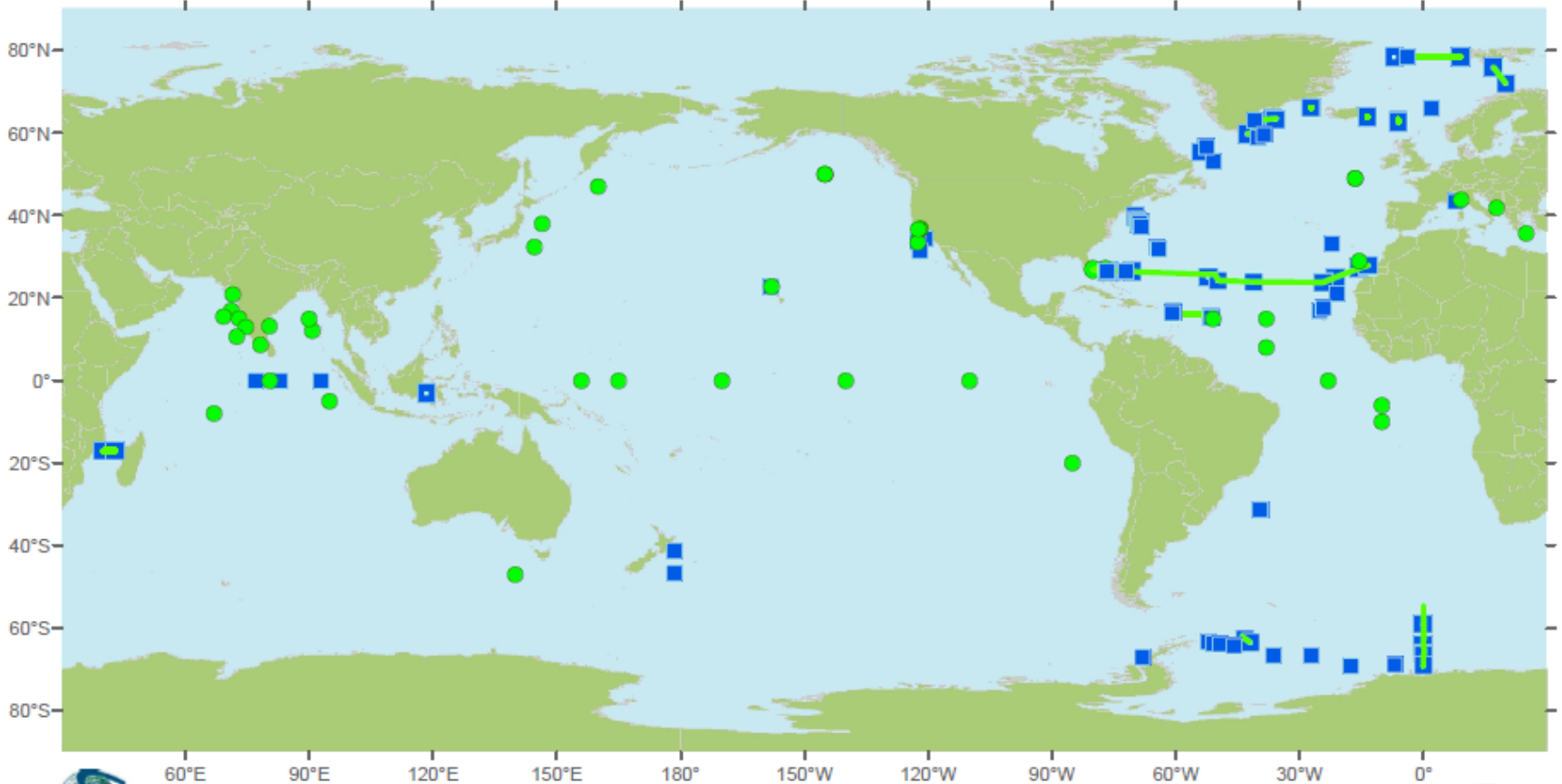
- Updates to documentation (site descriptions):
 - Became familiar with existing OceanSITES sites and documentation
 - Compiled a letter and sent out requests to OceanSITES participants to update the content of existing “Whitepaper” documents.
 - Collated documents by ocean basin
 - Created a summary spreadsheet listing all sites “Site Catalog”
 - Created Current Status maps and Vision maps (2009) and google earth files
 - Uploaded all new documentation to www.oceansites.org/network/

Site Metadata



- DACs fill out a questionnaire for metadata management.
 - in .doc, .txt or .xml (SensorML) format
- Site Catalog, with up-to-date information about sites which were preparing or ready to share data on the GDACs.
 - Metadata for all sites including contacts and data types
 - Requires review of current data on GDACs
 - Synchronization of GDACs
- Monthly map now available showing sites sharing data on the GTS of WMO
- Quarterly map will be generated to show the platforms putting data on the GDACs.

Current Status (2009)



OceanSITES Status Map 2009 - Operating Sites

OceanSITES Moorings and Observatories (91) Transport sites (16) Transport Stations (67)

● OPERATING Real time data (44)

— OPERATING

● OPERATING Real time data (2)

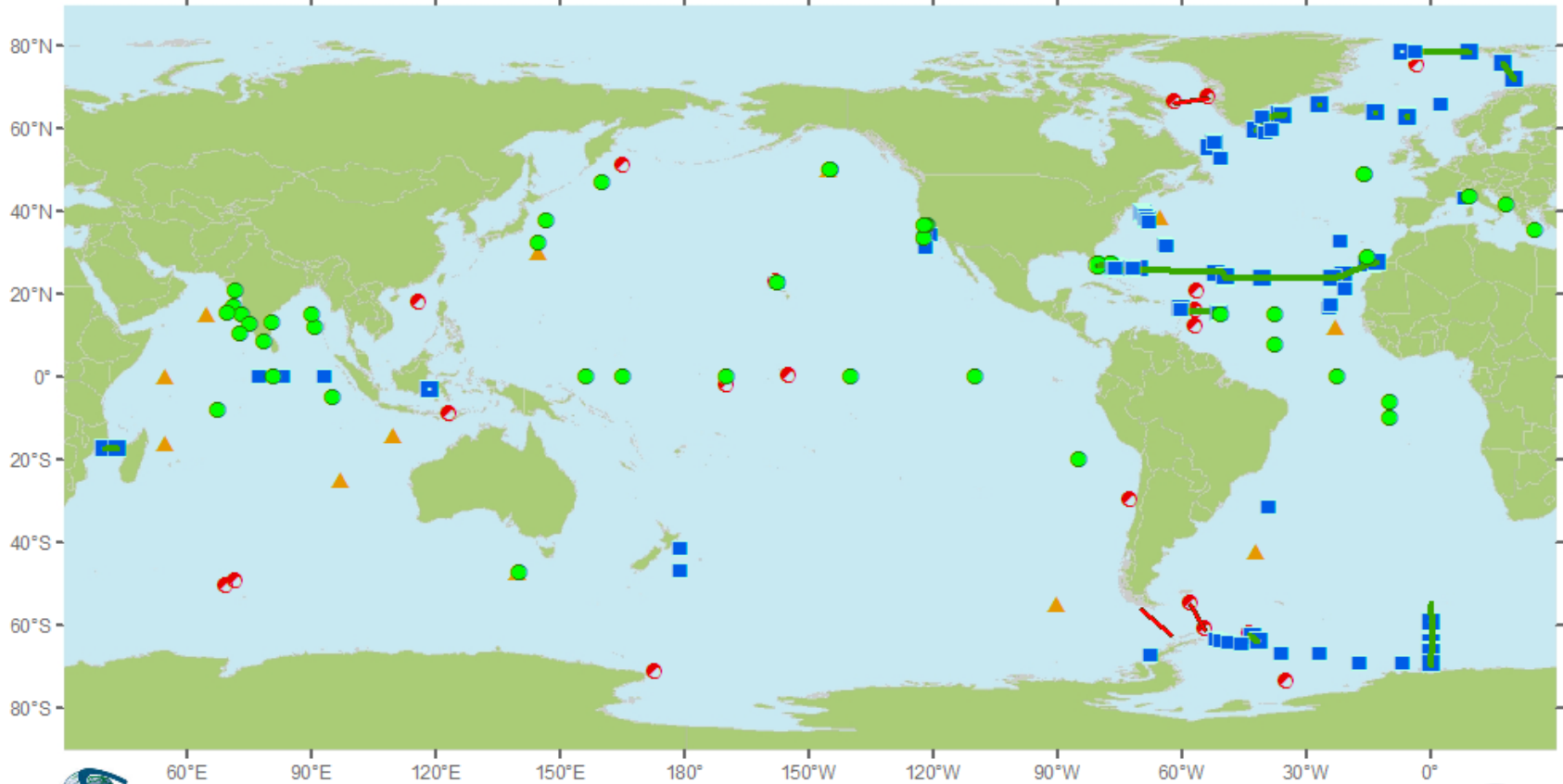
■ OPERATING Delayed Mode data (47)

■ OPERATING Delayed Mode data (65)

Note: This status was based on information provided in 2009.

Vision (2009)

Including discontinued sites



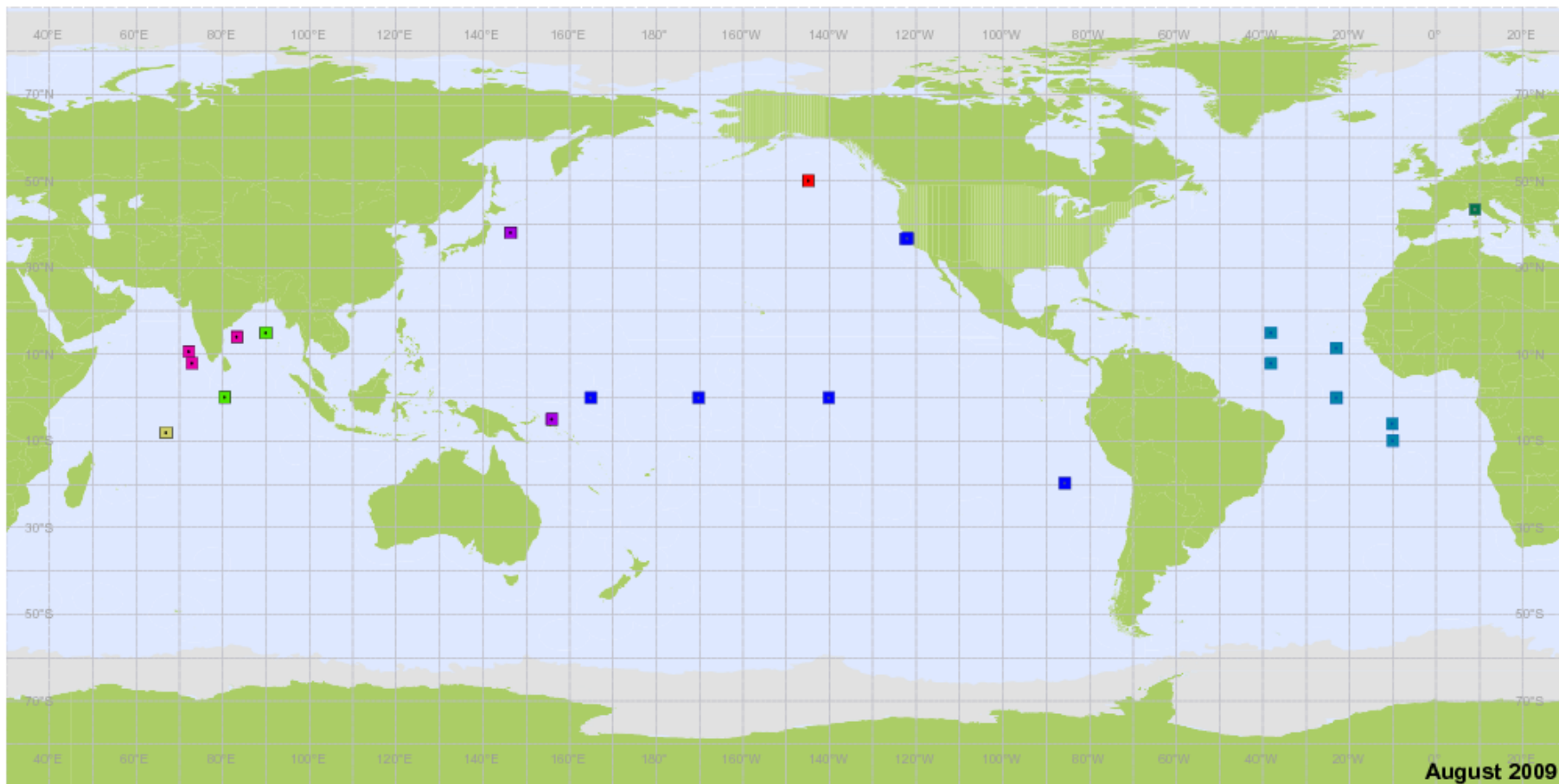
OceanSITES Vision Map 2009 - All Planned Sites



OceanSITES Moorings and Observatories (91)		Planned or Discontinued (31)	Transport sites (19)	Transport Stations (73)
● OPERATING Real time data (44)	▲ PLANNED Real time data (14)	— OPERATING (16)	● OPERATING Real time data (2)	
■ OPERATING Delayed Mode data (47)	■ PLANNED Delayed Mode data (0)	— DISCONTINUED (3)	■ OPERATING Delayed Mode data (65)	
	● DISCONTINUED (17)	● DISCONTINUED (6)		

Note: This status was based on information provided in 2009.

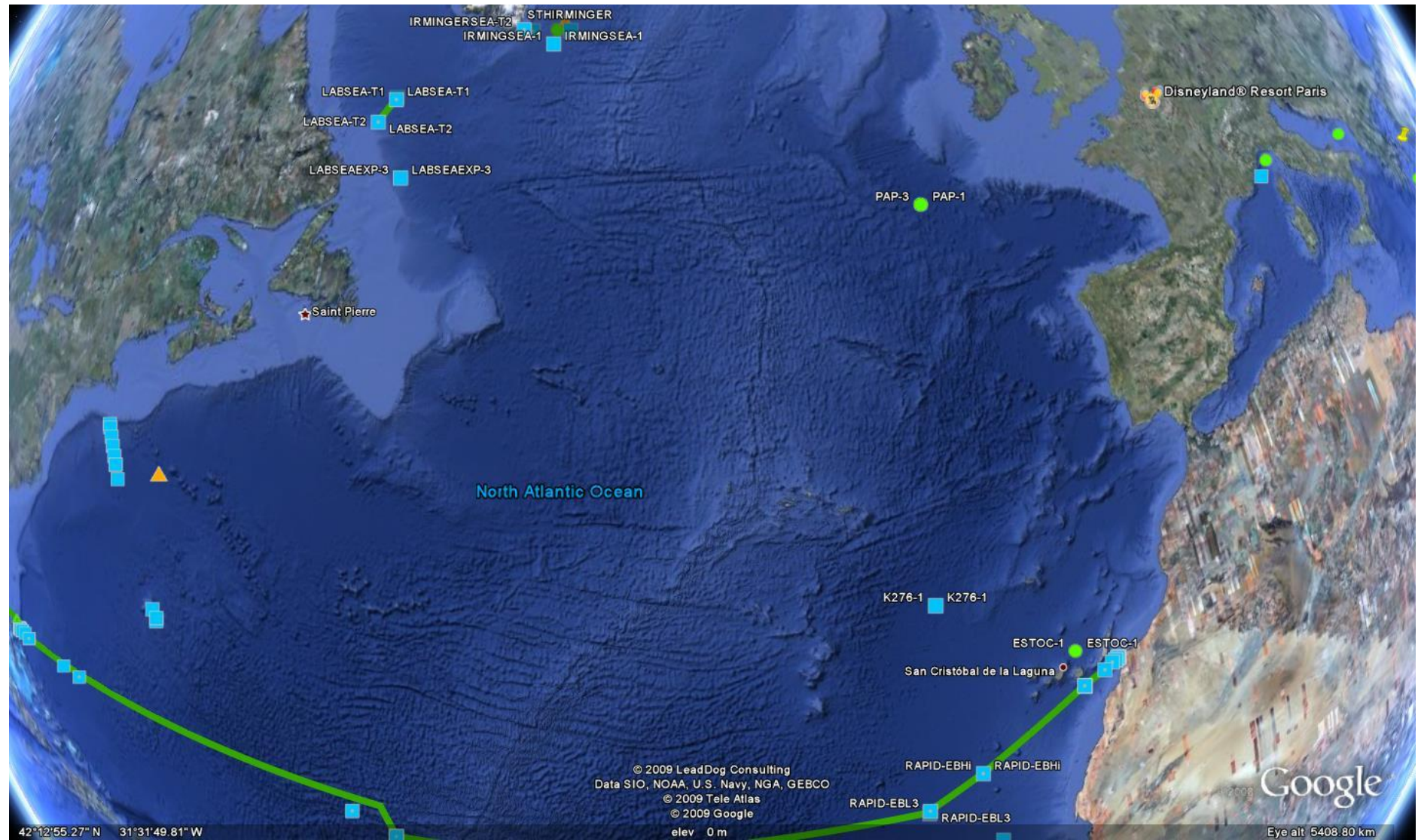
OceanSITES on the GTS (08/2009)



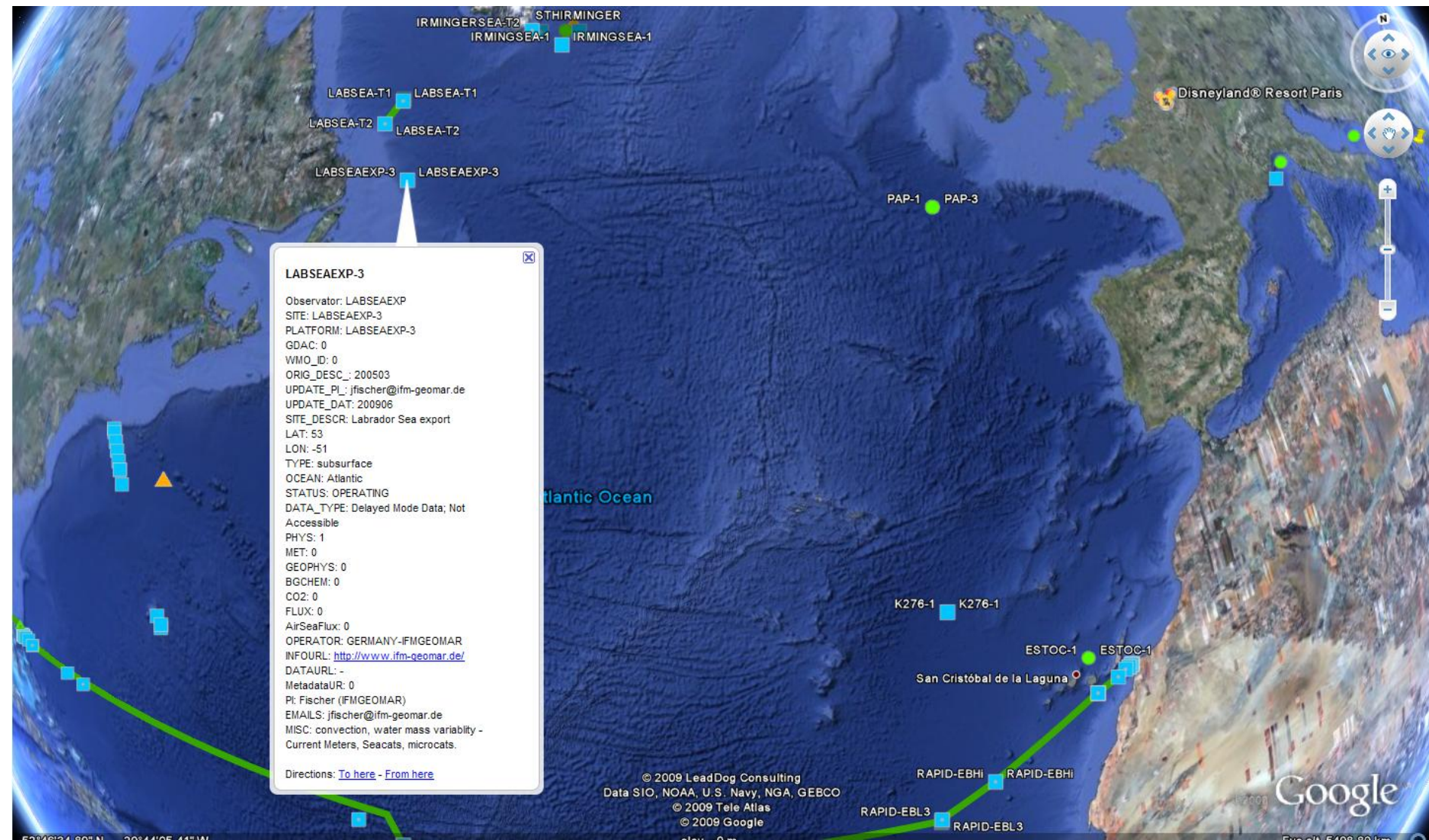
OceanSITES on the GTS (last month) (23)

- | | | | | | |
|--|---|---|---|---|---|
| ■ BR-FR-US (6) | ■ EUROPE/ESURFMAR (0) | ■ IRELAND (0) | ■ SOUTH KOREA (0) | ■ USA-FRANCE (1) | ■ UNKNOWN (0) |
| ■ CANADA (1) | ■ FRANCE (0) | ■ ITALY (1) | ■ UK (0) | ■ USA-INDIA (2) | |
| ■ INDIA (3) | ■ JAPAN (2) | ■ JAPAN (2) | ■ USA (7) | ■ USA-INDON. (0) | |

Google Earth



Google Earth



Site Catalog

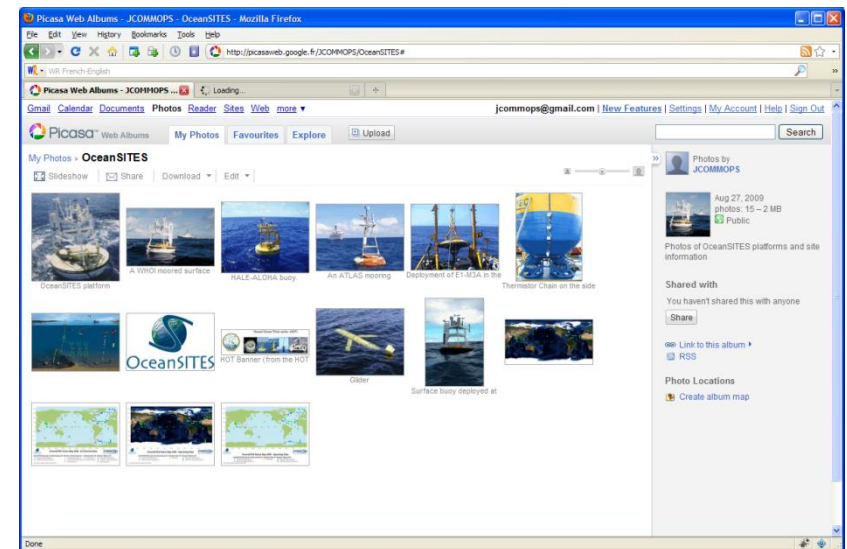


Based on data files available from GDAC - As of September 2009

Site code **	PLATFORM **	VMO code	GDAC	DAC	PI/Data Manager	created	modified	OceanSITES Data Location **	Most recent Filename	Metadata Provided **	OS NetCDF Format
BTM	BTM-1	-	NDBC	NDBC ?	UCSB	30/10/2007	9/04/2009	http://data.ndbc.noaa.gov/data/foceansites/BERMUJA/BTM/	OS_BT1_200112_TSM.nc	Not Yet	OceanSITES Manual 1
BATS	BATS1	-	NDBC	CCHDO SIO	Lomas/Diggs	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/BERMUJA/BATS/	-	No	
BATS	BHYDROS	-	(NDBC)	CCHDO SIO	Aucant/Diggs	-	-	http://data.ndbc.noaa.gov/data/foceansites/BERMUJA/BATS/	-	-	
CIS	CIS-1	44478	IFREMER	NOCS	IFM-GEOMAR/NOCS	30/10/2007	9/04/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/CIS/	OS_CIS-1_200905_TSC.nc	Yes	OceanSITES Manual 1.1
CIS	CIS-2	44478	IFREMER	NOCS	IFM-GEOMAR/NOCS	30/10/2007	9/04/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/CIS/	OS_CIS-2_200308_TSC.nc	Not Yet	OceanSITES Manual 1.1
ESTOC	ESTOC-1	13471	IFREMER	IFREMER	NOCS	30/10/2007	9/04/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/ESTOC/	OS_ESTOC-1_200711_TSC.nc	Yes	OceanSITES Manual 1.1
PAP	PAP-1	62442	IFREMER	NOCS	NOCS	30/10/2007	9/04/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/PAP/	OS_PAP-1_200905_TSC.nc	Yes	OceanSITES Manual 1.1
PAP	PAP-2	62442	IFREMER	NOCS	NOCS	30/10/2007	9/04/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/PAP/	OS_PAP-2_200406_TSC.nc	Not Yet	OceanSITES Manual 1.1
WIM3A	WIM3A	6100	IFREMER	IFREMER	M3A	3/05/2009	8/06/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/WIM3A/	OS_2008_WIM3A.nc	Not Yet	OceanSITES Manual 1.1
EIM3A	EIM3A	?	IFREMER	IFREMER	M3A	3/05/2009	8/06/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/EIM3A/	OS_2009_EIM3A.nc	Not Yet	OceanSITES Manual 1.1
DYFAMED	DYFAMED	-	IFREMER	VILLEFRANCHE	VILLEFRANCHE	3/05/2009	8/06/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/DYFAMED/	OS_2007_DYFAMED_CTD.nc	Yes	OceanSITES Manual 1.1
E2M3A	E2M3A	?	IFREMER	VILLEFRANCHE	M3A	3/05/2009	8/06/2009	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/E2M3A/	-	No	
STATION-M	QVSM	?	IFREMER	BERGEN	Osterhus	8/06/2009	-	http://ftp.ifremer.fr/ftp/foceansites/EuroSITES/STATION-M/	-	Not Yet	
WHOTS	WHOTS	51400	NDBC	WHOI	Woods Hole	8/06/2009	11/09/2009	http://data.ndbc.noaa.gov/data/foceansites/vHOTS/	-	Not Yet	
HOT	?	-	NDBC	CCHDO SIO	Karl, Church	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/HAWAII/HOT/	-	No	
-	MB04	23451	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB04_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	MB09	23456?	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB09_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	MB20	23491	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB20_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	MB23	23170	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB23_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	MB24	23098	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB24_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	CVAL	23102	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_CVAL_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	OB10	23101	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_OB10_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	OB12	23455	NDBC	NDBC	Pattabhi	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_OB12_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
-	MB26	23494	NDBC	NDBC	Pattabhi	9/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/INCOIS/	OS_MB26_20090216_Ts.nc	Yes	OceanSITES Manual 1.1
IRMING-SEA	?	-	IFREMER	NIOZ	NIOZ	8/06/2009	-	http://ftp.ifremer.fr/ftp/foceansites/IRMING-SEA/	-	No	
KEO32N145E	KEO32N145E	28401	NDBC	PMEL	Cronin	30/10/2007	8/04/2008	http://data.ndbc.noaa.gov/data/foceansites/KEO/KEO32N145E/	OS_KEO32N145E_200408_TSMV_dy.nc	Not Yet	OceanSITES Manual 1
JKEO38N147E	JKEO	21210	?	?	JAMSTEC/CHIKAWA	3/05/2009	-	-	-	-	
LINE-W	?	-	NDBC	WHOI	Woods Hole/Curry	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/STATION-W/LINE-W/	-	Not Yet	OceanSITES Manual 1.1
MB	M0	46091	NDBC	MBARI	Chavez	8/06/2009	27/07/2009	http://data.ndbc.noaa.gov/data/foceansites/MBARI/MB/	OS_M0_20070621_Ts.nc	Yes	
MB	M1	46092	NDBC	MBARI	Chavez	8/06/2009	27/07/2009	http://data.ndbc.noaa.gov/data/foceansites/MBARI/MB/	OS_M1_20081008_Ts.nc	Yes	
MB	M2	46093	NDBC	MBARI	Chavez	8/06/2009	27/07/2009	http://data.ndbc.noaa.gov/data/foceansites/MBARI/MB/	OS_M2_20090429_Ts.nc	Yes	
MOVE1	MOVE1	-	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	30/10/2007	11/09/2009	http://data.ndbc.noaa.gov/data/foceansites/MOVE1/	http://ftp.ifremer.fr/ftp/foceansites/IMO/	Not Yet	OceanSITES Manual 1. To be deleted
MOVE1	MOVE1P	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE1/	-	Not Yet	
MOVE2	MOVE2	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	30/10/2007	8/06/2009	http://data.ndbc.noaa.gov/data/foceansites/MOVE2/	http://ftp.ifremer.fr/ftp/foceansites/IMO/	Not Yet	OceanSITES Manual 1. To be deleted
MOVE2	MOVE2P	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE2/	-	Not Yet	
MOVE3	MOVE3	-	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	30/10/2007	11/09/2009	http://data.ndbc.noaa.gov/data/foceansites/MOVE3/	http://ftp.ifremer.fr/ftp/foceansites/IMO/	Not Yet	OceanSITES Manual 1. To be deleted
MOVE3	MOVE3P	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE3/	-	Not Yet	
MOVE4	MOVE4	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE4/	-	Not Yet	
MOVE5	MOVE5	?	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE5/	-	Not Yet	
MOVE6	MOVE6P	-	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE6/	-	Not Yet	
MOVE7	MOVE7P	-	NDBC	SIO/NDBC	SIO/IFM-GEOMAR	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/MOVE7/	-	Not Yet	
MOZCHANNEL	?	-	IFREMER	NIOZ	NIOZ	8/06/2009	-	http://ftp.ifremer.fr/ftp/foceansites/IMO2/AMBIQUE/IMO2CHANNEL/	-	No	
NTAS	NTAS	49401	NDBC	WHOI	Woods Hole/Galbraith	30/10/2007	11/09/2009	http://data.ndbc.noaa.gov/data/foceansites/NTAS/NTAS/	ntas1met_H_ots.nc	Not Yet	OceanSITES Manual 1
0N23W	P0N23W	15004	NDBC	PMEL	McPhaden	30/10/2007	9/04/2009	http://data.ndbc.noaa.gov/data/foceansites/PIRATA/0N23W/	OS_0n23w_TVM_10m.nc	Not Yet	OceanSITES Manual 1
10S10W	P10S10W	15001	NDBC	PMEL	McPhaden	30/10/2007	9/04/2009	http://data.ndbc.noaa.gov/data/foceansites/PIRATA/10S10W/	OS_10s10w_TVM_10m.nc	Not Yet	OceanSITES Manual 1
15N38W	P15N38W	13008	NDBC	PMEL	McPhaden	30/10/2007	9/04/2009	http://data.ndbc.noaa.gov/data/foceansites/PIRATA/15N38W/	OS_15n38w_TVM_10m.nc	Not Yet	OceanSITES Manual 1
12N23W	P12N23W	13001	NDBC	PMEL	McPhaden	9/04/2009	-	http://data.ndbc.noaa.gov/data/foceansites/PIRATA/12N23W/	-	Not Yet	OceanSITES Manual 1
0N80.5E	R0N80.5E	23001	NDBC	PMEL	McPhaden	30/10/2007	9/04/2009	http://data.ndbc.noaa.gov/data/foceansites/RAMA/0N80.5E/	OS_0n80.5e_TSMV_dy.nc	Not Yet	OceanSITES Manual 1
8S67E	R08S67E	14040	NDBC	PMEL	McPhaden	9/04/2009	-	http://data.ndbc.noaa.gov/data/foceansites/RAMA/8S67E/	-	Not Yet	OceanSITES Manual 1
15N90E	R15N90E	23009	NDBC	PMEL	McPhaden	9/04/2009	-	http://data.ndbc.noaa.gov/data/foceansites/RAMA/15N90E/	-	Not Yet	OceanSITES Manual 1
LINE-P	?	-	NDBC	PMEL	Freeland	8/06/2009	-	http://data.ndbc.noaa.gov/data/foceansites/STATION-P/LINE-P/	-	No	

Website and Communications

- www.oceansites.org - Network status Maps and Documents also available via JCOMMOPS FTP
- Photo album
<http://picasaweb.google.com/JCOMMOPS/OceanSITES#>
- www.jcomm.info - New web content entered:
 - Content added for the OPA and the OceanSITES (and DBCP)
 - Maintained contact details for OceanSITES participants and Principal Investigators
 - Created user groups/mailling lists on the JCOMM website (OceanSITES Science Team, Data Management Team)
- Created new email lists
 - oceansites-exec@jcommops.org
 - oceansites-sc@jcommops.org
 - oceansites-dmt@jcommops.org
 - oceansites-dmInfo@jcommops.org
 - oceansites-guests@jcommops.org
- Plus aliases e.g.
projectoffice@oceansites.org





Funding at JCOMMOPS

- **OceanSITES** Funding from:
 - USA NOAA
 - Australian (IMOS)
 - plus commitment from IFREMER, France.
 - and the DBCP one-off contribution.
- The DBCP Chair approached NIOT India to request additional funds
- POGO does not seem to have any additional money.

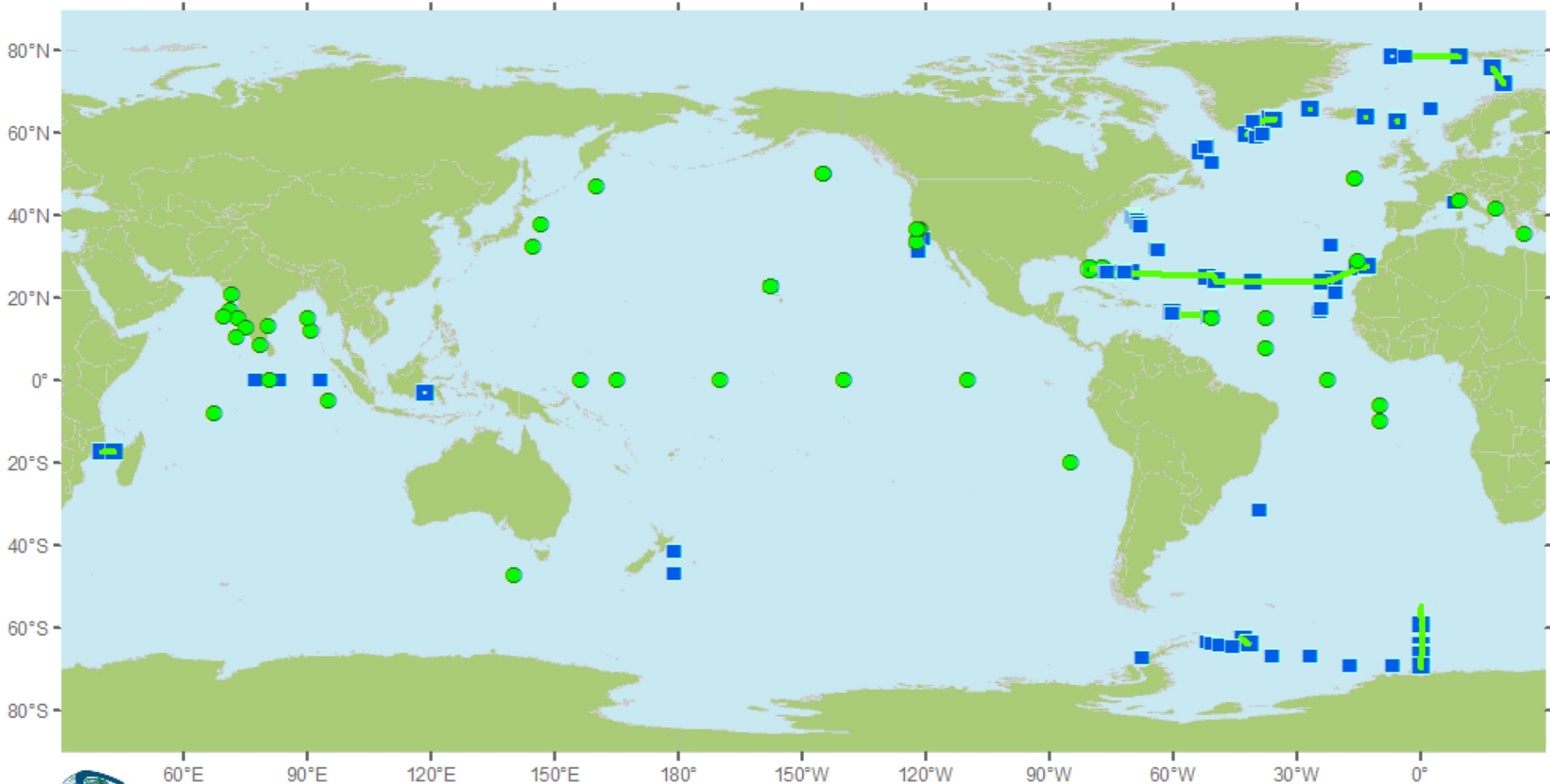


Future priority tasks

- Develop processes at DACs in providing data and metadata and improve GDAC metadata holdings:
 - New DACs and expanded data sets for existing DACs in line with DMT priorities
 - Develop JCOMMOPS metadata loading routines to check status of GDACs and automatically update database
- Products on the OceanSITES web:
 - Contact Data users to ensure data is useful (e.g. SURFA - comparison of the surface fluxes from NWP and climate models from in-situ time series)
 - Create a portal for products (15m currents, surface fluxes, SSS, etc) and indicators from OceanSITES data sets

Future tasks

- New sites - work to identify additional operators of candidate sites and support them to become part of the OceanSITES system
- Google earth file updated daily/monthly with full metadata descriptions and links to GDAC datasets
- Redesign web mapping tools at JCOMMOPS for all OceanSITES layers (synchronized with Google Earth)
- Further engagement with BioGeoChemical Communities
 - set suite of measurements, on a minimal set of “backbone” sites
 - developing quality control processes and extending data formats



OceanSITES Status Map 2009 - Operating Sites

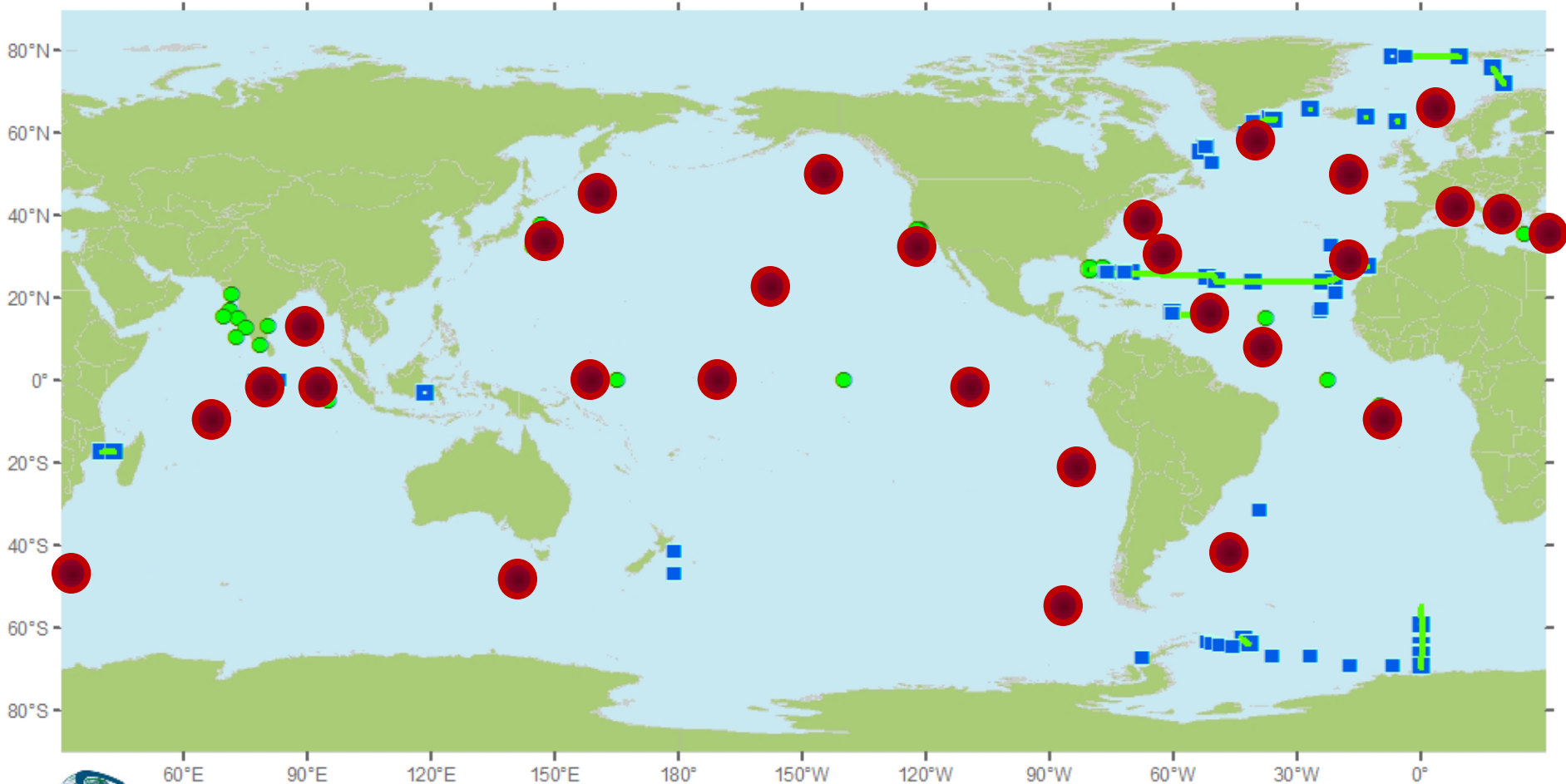
OceanSITES Moorings and Observatories (91) Transport sites (16) Transport Stations (67)

- OPERATING Real time data (44)
- OPERATING Delayed Mode data (47)

— OPERATING

- OPERATING Real time data (2)
- OPERATING Delayed Mode data (65)

Note: This status was based on information provided in 2009.



OceanSITES Status Map 2009 - Operating Sites



OceanSITES Moorings and Observatories (91) Transport sites (16) Transport Stations (67)

- OPERATING Real time data (44)
- OPERATING Delayed Mode data (47)

— OPERATING

- OPERATING Real time data (2)
- OPERATING Delayed Mode data (65)

Note: This status was based on information provided in 2009.

Questions, Comments

- Email: projectoffice@jcommops.org
- Six monthly reports are on:
 - http://www.jcommops.org/FTPRoot/OceanSITES/status/project_office_reports/

