

Ship Observations Team

National Report for 2007

1. **Country:** United States of America

2. **Contributing national marine organizations:**

Organization	NOAA/NWS/NDBC
Programmes #	VOS
Website URL	http://www.vos.noaa.gov/

Organization	NOAA/NWS/NDBC & NOAA/NCDC
Programmes #	VOSClim
Website URL	http://www.vos.noaa.gov/vosclim.shtml or http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-VOS
Website URL	www.aoml.noaa.gov/goos

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-XBT
Website URL	www.aoml.noaa.gov/goos/goos-products_xbt.html

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-High Density XBT
Website URL	www.aoml.noaa.gov/phod/hdenxbt

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-SIO High Density XBT
Website URL	http://www-hrx.ucsd.edu/

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-Argo Program
Website URL	www.aoml.noaa.gov/phod/ARGO/Homepage

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-Global Drifter Program
Website URL	www.aoml.noaa.gov/phod/dac

Organization	NOAA/OAR/AOML/Global Ocean Observing Systems (GOOS) Center
Programmes #	SOOP-WHOI Autolmet Program
Website URL	http://uop.whoi.edu/vos/

Organization	NOAA/OAR/AOML-PMEL
Programmes #	SOOP-pCO2
Website URL	http://www.aoml.noaa.gov/ocd/gcc/co2research/index.html

Website URL	http://www.pmel.noaa.gov/co2/co2-home.html
--------------------	---

Organization	NOAA/OAR/CMDL
Programmes #	SOOP-CO2
Website URL	http://www.oar.noaa.gov/atmosphere/atmos_cmdl.html

3. **List of National Focal Points for SOT / VOS / VOSClm / SOOP / ASAP** (see Appendix 1):

4. **List of Port Meteorological Officers** (see Appendix 2):

5. VOS and VOSClim:

a. Programme description:

Category	No. of ships at 31 Dec 2007	Comments
<i>Selected</i>	759	Includes 60 ships listed as #6 (Great Lakes)
<i>Supplementary</i>	242	
<i>Auxiliary</i>	102	
<i>Other (specify)</i>	16	Type #4 = 4, Type #5 = 1, Type #7 = 2, unkn = 9

Total National VOS fleet	1119
---------------------------------	------

<i>Number of VOS vessels recruited in 2007</i>	171
<i>Number of VOS vessels de-recruited in 2007</i>	200

<i>Number of VOSClim vessels at 31 December 2007</i>	14
<i>Number of VOSClim vessels recruited in 2007</i>	2
<i>Number of VOSClim de-recruitments in 2007</i>	0
<i>Number of VOSClim recruitments planned for 2008</i>	12
<i>Target number of ships to participate in VOSClim</i>	50

b. Automated Observing Systems:

Type	No. of ships at 31 Dec 2007	Manual Input Yes / No	Comms Method	Comments and plans for 2005
Unknown (various)	3	Y	SEAS	Research vessels AUTOIMET connection

c. Electronic logbooks:

Software & Version	No. of ships at 31 Dec 2005	Comments
SEAS Ver. 6.57	45	Binary or email transmissions
SEAS Ver.4.52	24	Binary transmission
SEAS (Other)	60	Versions earlier than 4.52 to support XBT Software module or Code41 transmission

d. Data Management:

Total number of BBXX distributed on the GTS in 2007	311405
Frequency of VOS data submitted for the GCC in 2007	259,297

e. Major challenges and difficulties:

No significant funding for automated systems in near future. ORACLE Conversion tool for existing VOS DB to WMO #47 has licensing constraints.

f. Research / development / testing:

Developing MySQL version of VOS ORACLE database that will allow easier adaptation to changing programmatic requirements and proper reporting for PUB47 XML & IMMT3 formats.

g. Other comments:

--

6. SOOP:

(delete this section if SOOP is not applicable)

a. Programme description:

NOAA operates and manages several monitoring systems utilizing ships of the VOS and SOOP fleets to collect, process, transmit, and quality control XBT and thermosalinograph observations.

Line	Agency	Sampling programme and mode (if applicable)	No. of ships
AX10	SOO SEAS/AOML	HD	1
AX10	SOO SEAS/AOML	FR	1
AX18	SOO SEAS/AOML	HD	2
AX22	SOO SEAS/AOML	HD	1
AX25	SOO SEAS/AOML	HD	1
AX32	SOO SEAS/AOML	HD	1
AX32	SOO SEAS/AOML	FR	1
AX07	SOO SEAS/AOML	HD	3
AX07	SOO SEAS/AOML	FR	3
AX08	SOO SEAS/AOML	HD	1
AX08	SOO SEAS/AOML	FR	2
AX98	SOO SEAS/AOML	HD	1
IX15	SOO SEAS/SIO	HD	2
IX20	SOO SEAS/SIO	FR	1
IX21	SOO SEAS/SIO	HD	2
IX21	SOO SEAS/SIO	FR	1
IX28	SOO SEAS/SIO	HD	1
IX31	SOO SEAS/SIO	HD	2
IX06	SOO SEAS/SIO	HD	1
IX06	SOO SEAS/SIO	FR	1
PX50	SOO SEAS/SIO	HD	1
PX10	SOO SEAS/SIO	HD	2
PX10	SOO SEAS/AOML	FR	4
PX13	SOO SEAS/SIO	HD	1
PX13	SOO SEAS/AOML	FR	2
PX18	SOO SEAS/AOML	FR	2
PX26	SOO SEAS/AOML	FR	4
PX28	SOO SEAS/SIO	FR	2

PX31	SOO SEAS/SIO	HD	2
PX31	SOO SEAS/AOML	FR	1
PX33	SOO SEAS/SIO	FR	1
PX34	SOO SEAS/SIO	HD	3
PX37	SOO SEAS/SIO	HD	2
PX37	SOO SEAS/AOML	FR	4
PX39	SOO SEAS/SIO	FR	2
PX42	SOO SEAS/SIO	FR	1
PX44	SOO SEAS/SIO	HD	2
PX44	SOO SEAS/AOML	FR	4
PX06	SOO SEAS/SIO	HD	2
PX06	SOO SEAS/AOML	FR	1
PX08	SOO SEAS/SIO	HD	1
PX08	SOO SEAS/AOML	FR	2
PX83	SOO SEAS/AOML	FR	1

b. Data Management:

Name of Agency	NOAA/OAR/AOML/GOOS
Number of JJVV messages inserted on the GTS in 2007	12,983 6206 (NOAA/AOML-SEAS) 6777 (SIO-SEAS)
Location of delayed mode data	NODC, AOML, SIO, CSIRO

c. Major challenges and difficulties:

<ul style="list-style-type: none"> • Funding decreases caused subsequent decreases in the number of supported (LDX/FRX) lines, • We have completed the transition from SEAS-IV to SEAS 2000 data acquisition software. The result of this transition is that all SEAS expendable bathythermograph (XBT) data transmitted from SOO to NOAA are full resolution profiles and all data are placed into the GTS by NOAA. • A real time transmission and quality control procedure for the thermosalinograph (TSG) data collected on board the cargo ships is being implemented. • We lost the Skógafoss to ship traffic realignment plans. This particular ship participated in high and low density XBT sampling, atmospheric and oceanic carbon dioxide and thermosalinograph programs so it was a major loss to multiple programs within SOOP. • Most data from deployments by international collaborators are not being transmitted into the GTS.
--

d. Research / development / testing:

- We are testing Iridium satellite transmission protocols for TSG and XBT data collected with SEAS 2000 on the Oleander.
- We will test BUFR format transmission with XBT and TSG data during 2008.

e. Other comments:

- We continue to participate in collaborative programs with other institutions involved with XBT programs. Our contribution to the collaboration comes in the form of donating probes and supporting equipment when needed in exchange for management and ship greeting services. In particular we shipped 324 probes to IRD/Noumea, 540 probes to IRD/Brest, 324 probes to Brazil, and 648 probes to Australia.
- XBT transects may need to be re-evaluated following international and regional scientific panel recommendations.

7. ASAP:

(delete this section and Appendices 3 & 4 if ASAP is not applicable)

a. Catalogue of ASAP vessels in 2007: None

b. ASAP performance in 2007:

c. Major challenges and difficulties:

d. Other comments:

The United States no longer has any ASAP assets under its cognisance. For further information please contact Mr. Warren Keenan at NOAA's Office of Global Programs, 301-734-1102 or by e-mail at warren.keenan@noaa.gov

Appendix 1: List of National Focal Points for SOT / VOS / VOSClm / SOOP / ASAP.

Country: USA

Focal Point *	SOOP	SOOP	SOOP
Name	Dr. Gustavo Goni	Jim Farrington	Carrie Wolfe
Title	Oceanographer	SEAS Logistics	SOOP Contractor
Agency	NOAA/OAR	NOAA/OAR	SCMI
Postal Address	4301 Rickenbacker Causeway Miami, FL 33149	439 West York St. Norfolk, VA 23510	820 S. Seaside Ave. San Pedro, CA 90731
Email	Gustavo.Goni@noaa.gov	james.w.farrington@noaa.gov	hbbio048@csun.edu
Telephone	305-361-4339	757-4413062	310-519-3181
Facsimile	305-361-4412	757-441-6495	310-519-1054

Focal Point *	SOOP	SOOP	SOOP
Name	Sommyr Pochan	Steve Noah	Derrick Snowden
Title	Oceanographer	SOOP Contractor	Oceanographer
Agency	NOAA/OAR	Olympic Computer Services	NOAA
Postal Address	4301 Rickenbacker Causeway Miami, FL 33149	800 West Park Ave. Suite 1 Port Townsend, WA 98368	1100 Wayne Avenue Suite 1202 Silver Spring, MD 20910
Email	Sommyr.Pochan@noaa.gov	KARSTENO@aol.com	derrick.snowden@noaa.gov
Telephone	305-361-4304	425-238-6501	301-427-2464
Facsimile	305-361-4366	360-385-2400	301-427-0033

Focal Point *	VOS	VOS	VOSClim
Name	Robert Luke	John Wasserman	Alan Hall
Title	VOS Project Manager	VOS Operations Manager	Computer Specialist
Agency	NOAA/NWS/NDBC	NOAA/NWS/NDBC	NOAA/NCDC
Postal Address	1100 Balch Blvd Stennis Space Center, MS 39529-6000	1100 Balch Blvd Stennis Space Center, MS 39529-6000	151 Patton Avenue Asheville, NC 28801-5001
Email	Robert.luke@noaa.gov	John.wasserman@noaa.gov	Alan.hall@noaa.gov
Telephone	228-688-1457	228-688-1818	828-271-4071
Facsimile	228-688-3923	228-688-3923	828-271-4022

Focal Point *	ASAP
Name	Warren Keenan
Title	Physical Scientist
Agency	NOAA
Postal Address	1315 East West Hwy ATTN: Office of Global Programs SSMC3 R/OM4 Silver Spring, MD 20910-3282
Email	Warren.kennan.noaa.gov
Telephone	301-734-1102
Facsimile	301-713-1755

Appendix 2: List of Port Meteorological Officers.

Country: USA

Port / Office	FORT LAUDERDALE, FL	JACKSONVILLE, FL	CHARLESTON, SC
Name	Ms. Peggy Alander	Mr. John Warrelmann	Mr. Tim Kenefick
Title	PMO	PMO	PMO
Postal Address	National Weather Service, NOAA P.O. Box 350067 Fort Lauderdale, FL 33316-0067	National Weather Service, NOAA 13701 Fang Road Jacksonville, FL 32218-7933	NOAA Coastal Services Center 2234 South Hobson Avenue Charleston, SC 29405-2413
Email	Peggy.alander@noaa.gov	john.warrelmann@noaa.gov	timothy.kenefick@noaa.gov
Telephone	954-463-4271	904-741-5186 Ext. 117	843-740-1281
Facsimile	954-462-8963	904-741-0078	843-740-1289
Comment			

Port / Office	NORFOLK, VA	NEW YORK, NY	BALTIMORE, MD
Name	Mr. Peter Gibino	Mr. Jim Luciani	Mr. James Saunders
Title	PMO	PMO	PMO
Postal Address	National Weather Service, NOAA 4034-B Geo. Wash. Mem. Hwy. Yorktown, VA 23692-2724	National Weather Service, NOAA 110 Main Street, Suite 201 South Amboy, NJ 08879-1367	National Weather Service, NOAA Maritime Center I, Suite 287 2200 Broening Highway Baltimore, MD 21224-6623
Email	peter.gibino@noaa.gov	james.luciani@noaa.gov	james.saunders@noaa.gov
Telephone	757-877-1692	732-316-5409	410-633-4709
Facsimile	757-877-9561	732-316-7643	410-633-4713
Comment			

List of Port Meteorological Officers (cont).

Country: USA

Port / Office	CHICAGO IL / GREAT LAKES	NEW ORLEANS, LA / GULF COAST	HOUSTON, TX
Name	Ms. Amy Seeley	Ms. Paula Rychtar	Mr. Chris Fakes
Title	PMO	PMO	PMO
Postal Address	National Weather Service, NOAA 333 West University Dr. Romeoville, IL 60446-1804	National Weather Service, NOAA ATTN: Port Meteorological Officer c/o NOAA Fisheries P.O. Drawer 1207 Pascagoula, MS 39568-1207	National Weather Service, NOAA 1353 FM646 Dickinson, TX 77539
Email	amy.seeley@noaa.gov	paula.rychtar@noaa.gov	chris.fakes@noaa.gov
Telephone	815-834-0600 Ext. 269	504-289-2294	281-534-2640
Facsimile	815-834-0645		281-337-3798
Comment			

Port / Office	LONG BEACH, CA	SAN FRANCISCO BAY AREA	SEATTLE, WA
Name	Mr. Robert Webster	Mr. Daniel Curtis	Mr. Patrick Brandow
Title	PMO	PMO	PMO
Postal Address	National Weather Service, NOAA 501 West Ocean Blvd., Room 4480 Long Beach, CA 90802-4213	National Weather Service, NOAA 1301 Clay Street, Suite 1190N Oakland, CA 94612-5217	National Weather Service, NOAA 7600 Sand Point Way, N.E. BIN C15700 Seattle, WA 98115-6349
Email	bob.webster@noaa.gov	daniel.curtis@noaa.gov	pat.brandow@noaa.gov
Telephone	562-980-4090	510-637-2960	206-526-6100
Facsimile	562-980-4089	510-637-2961	206-526-4571 or 6094
Comment			

Port / Office	KODIAK, AK	VALDEZ, AK	ANCHORAGE, AK
Name	Mr. Richard Courtney	Ms. Debra Russell	Mr. Larry Hubble
Title	PMO	OIC / PMO	PMO
Postal Address	National Weather Service, NOAA 600 Sandy Hook Street, Suite 1 Kodiak, AK 99615-6814	National Weather Service, NOAA Box 427 Valdez, AK 99686-0427	National Weather Service Alaska Region 222 West 7th Avenue #23 Anchorage, AK 99513-7575
Email	richard.courtney@noaa.gov	debra.russell@noaa.gov	larry.hubble@noaa.gov
Telephone	907-487-2102	907-835-4505	907-271-5135
Facsimile	907-487-9730	907-835-4598	907-271-3711
Comment			

Port / Office	HONOLULU, HI		
Name	Mr. Derek LeeLoy		
Title	Ocean Services Program Coordinator /PMO		
Postal Address	National Weather Service Pacific Region HQ Grosvenor Center, Mauka Tower 737 Bishop Street, Suite 2200 Honolulu, HI 96813-3201		
Email	derek.leeloy@noaa.gov		
Telephone	808-532-6439		
Facsimile	808-532-5569		
Comment			