

**INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION (of UNESCO)**

**WORLD METEOROLOGICAL
ORGANIZATION**



**JOINT WMO-IOC TECHNICAL COMMISSION
FOR OCEANOGRAPHY AND MARINE METEOROLOGY**

and

WORLD WEATHER WATCH (of WMO)

**INFORMATION SERVICE BULLETIN ON
NON-DRIFTING
OCEAN DATA ACQUISITION SYSTEMS (ODAS)**

February 20, 2002

(SC-2002/WS/22)

INTRODUCTION

A. Background information

Recommendation 4 (IPLAN-III) - *Protection from loss and wilful disablement of buoys supporting IGOSS and WWW*, which was subsequently endorsed by the WMO Executive Committee at its Twenty-eighth Session (Res. 6 (EC-XXVIII)) and the IOC Executive Council at its Seventh Session (Res. EC-VII.19), requested the two Secretariats to initiate a regular service for obtaining information from Member States on their ocean data buoys and providing wide dissemination of the information collected. The purpose of such a service is not only to ensure the safety of navigation and the protection of buoys against collision, but also to inform the maritime community of the great scientific value of, and the immediate benefits to be derived from, ocean data buoys.

Relevant information was therefore requested from Member States of IOC and Permanent Representatives of Members of WMO through the joint IOC-WMO Circular Letter No. 76026 dated 20 December 1976. On the basis of the information received, the First Issue of a dedicated Bulletin was compiled in June 1977.

Since its fourth issue (March 1981), the Bulletin also contains information relating to ODAS other than ocean data buoys. These are lighthouses and light vessels, observing towers and platforms, oil rigs, land-based automatic stations which have been allocated international ocean data buoy identifier numbers, ice drift buoys, buoys mounted on ships. All of these are suitably instrumented for marine meteorological and oceanographic observation and transmission of data.

At its Third Session (Paris, February - March 1983), the joint IOC-WMO Working Committee for IGOSS recognized that, due to the increasing use of ODAS in the IGOSS and the WWW programmes, the volume of the Bulletin had become very large because of the format being used. The Committee therefore decided that the Bulletin be issued in a simplified form retaining essential elements of the existing Bulletin.

At its second session (Geneva, October 1986), the DBCP “*suggested that, in future, this publication could be restricted to non-drifting ODAS and requested the secretariats to present this suggestion to the Joint IOC-WMO Working Committee for IGOSS at its next session. On the other hand, the panel welcomed the proposal by CLS/Service Argos to issue on a quarterly basis all relevant information with regard to drifting buoys, at no cost to the panel.*”

As a result of that suggestion, an inquiry was made among the Bulletin's addressees to decide whether the Bulletin should, or not, be restricted to non-drifting ODAS, in view of the rapid changes in status of drifting buoys. The unanimous answer was that it should. A new format for presentation of the relevant information was therefore prepared and adopted by the Joint IOC-WMO Working Committee for IGOSS at its fifth session (Paris, November 1988). The agreed format of presentation is given herewith in the four working languages, under “Format”, together with related explanations (“Notes”).

In May-July 1999, WMO Congress and the IOC Assembly decided to merge IGOSS and the WMO/CMM into JCOMM. The Bulletin became therefore a joint JCOMM/WWW publication.

At its fifteenth session (Wellington, October 1999), the DBCP “*requested the IOC Secretariat to arrange for the existing Non-Drifting ODAS Catalogue, previously developed under IGOSS, to be made available in*

electronic form, and provided to the technical coordinator and MEDS to be placed on the appropriate web servers. The Secretariats and the technical coordinator should then ensure that the catalogue was regularly and frequently updated.”

MEDS kindly agreed to establish an electronic version of the Bulletin, on the basis of an Excel format which had been developed by a Swedish colleague to transmit his data to the Secretariats.

B. Procedures

Since meteorological and oceanographic reports which originate from many ODAS are routinely exchanged over the Global Telecommunication System of WMO, the particulars of these ODAS are published herewith, country by country, in a consolidated form, for reference purposes.

All those countries deploying non-drifting ODAS at sea are kindly requested to fill in a consolidated form (available in Excel for download, in English, French, Russian and Spanish) describing the particulars of their ODAS, according to the instructions detailed in the Notes (available in RTF/Word for download, in English, French, Russian and Spanish). If they are quoted under the list of countries having already provided such information, they can make use of their downloadable filled forms to introduce such modifications as are necessary.

All countries are strongly encouraged to do so "in near-real-time", viz every time there is a change in the status of their deployed ODAS. In any case, they are urged to check at least once a year (ideally during the month of January) their ODAS lists and to submit any required modification.

Once the forms have been properly modified, those Member States/Members are kindly requested to send them by e-mail as attached files to the Secretariats, attention [Mr Yves Tréglos](#), for publication on the web.

C. Acronyms

CLS	Collecte Localisation Satellite
CMM	Commission for Marine Meteorology [<i>superseded by JCOMM</i>]
DBCP	Data Buoy Co-operation Panel (of WMO and IOC)
IGOSS	Integrated Global Ocean Services System (of IOC and WMO) [<i>superseded by JCOMM</i>]
IOC	Intergovernmental Oceanographic Commission (of UNESCO)
IPLAN	Joint IOC-WMO Planning Group for IGOSS [<i>no longer in existence</i>]
JCOMM	Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology
MEDS	Marine Environmental Data Service (of Canada)
ODAS	Ocean Data Acquisition Systems, Aids and Devices
UNESCO	United Nations Educational, Scientific and Cultural Organization
WMO	World Meteorological Organization
WWW	World Weather Watch (of WMO)

INFORMATION ON NON-DRIFTING ODAS

Country:

Date:

NOTES

Identifier

In column "WMO", enter the WMO identifier allocated to the ODAS, if any (WMO code: A₁b_wn_bn_bn_b).

In column "Other", enter any other national or international identifier or call sign (and specify which it is).

ODAS

In column "Type", enter:

- M for a moored data buoy
- P for a platform
- C for a coastal or island station
- O for any other station (then specify in column "Comments")

in column "Hull":

If "Type" is M, enter:

- xxD For a discus buoy, xx meters diameter
- xxS For a spar buoy, xx meters high above sea surface
- xxB For a boat-shaped buoy, xx meters long
- O For any other kind of buoy (then specify in column "Comments")

- otherwise, enter 0 and specify in column "Comments".

Location

Enter the actual or planned position (L_aL_a.L_aL_a N or S / L_oL_oL_o.L_oL_o E or W) and date (DD/MM/YY) of deployment.

Variables Measured

Enter in the appropriate column the number of observations reported per day and (if relevant) the number of observational levels for sub-surface measurements. If salinity and/or current are measured at (or close to) the sea surface, enter the letter S in the appropriate column. Enter the letter R if the data are recorded on-board the ODAS. Specify in column "Comments" if the column "Other" is used.

Transmission Means

Enter:

- H for HF
- V for VHF
- A for Argos system
- M for meteorological/environmental satellite
- I for INMARSAT
- O for any other means of transmission (then specify in column "Comments")

Code Form

Enter:

- S for SHIP (FM 13-IX)
- D for DRIBU (FM 14-VIII)
- B for BATHY (FM 63-IX)
- W for WAVEOB (FM 65-IX)
- U for BUFR (Binary Universal Form for Representation of meteorological data)(FM 94-IX)
- O for any other code form used (then specify in column "Comments")

Data Availability

Enter:

- G If data are circulated over the GTS
- M If data are available on micro-computer-compatible carrier
- C If data are available on computer (other than micro-computer-compatible carrier)
- L If data are available on listings (or equivalent media, such as punched paper tape, etc.)
- R If data availability is restricted
- O In other cases (then specify in column "Comments")

Status

Enter:

- O for operational
- E for experimental
- P for planned
- F for failed (during the last 6 months)
- A for adrift or off station

Use more than one letter if necessary.

Comments

Enter any relevant comment in plain language.

RENSEIGNEMENTS CONCERNANT LES SADO NON DERIVANTS

Pays

Date:

NOTES

Indicatif

Dans la colonne "OMM", porter, le cas échéant, l'indicatif attribué au SADO par l'OMM (code OMM: A₁b_wn_bn_bn_b).

Dans la colonne "Divers", porter éventuellement tout autre indicatif au numéro national ou international (préciser lequel).

SADO

Dans la colonne "Type", inscrire:

- M pour une bouée mouillée
- P pour une plate-forme
- C pour une station côtière ou insulaire
- O pour toute autre station (préciser alors dans la colonne "Observations")

Dans la colonne "Corps":

Si le "Type" est M, inscrire:

- xxD pour une bouée-disque de xx mètres de diamètre
- xxS pour une bouée-perche, xx mètres au-dessus de la surface de la mer
- xxB pour une bouée en forme de bateau, de xx mètres de long
- O pour toute autre type de bouée (préciser alors dans la colonne "Observations")

- Si non, mettre 0 et préciser dans la colonne "Observations".

Localisation

Indiquer la position ((L_aL_a,L_aL_a N ou S / L_oL_oL_o,L_oL_o E ou W) et la date (DD/MM/YY) de mise à l'eau réelles ou prévues.

Parametres Mesures

Inscrire dans la colonne appropriée le nombre d'observations transmises par jour et (le cas échéant) le nombre de niveaux de relèvement pour les mesures subsuperficielles. Si la salinité et/ou le courant sont mesurés à la surface de la mer (ou à proximité), porter la lettre S dans la colonne correspondante. Porter la lettre R si les données sont enregistrées à bord du SADO. Si la colonne "Divers" est utilisée, préciser dans la colonne "Observations".

Mode de Transmission

Inscrire:

- H pour HF
- V pour VHF
- A pour système Argos
- M pour satellite météorologique/d'observations de l'environnement
- I pour INMARSAT
- O pour tout autre mode de transmission (préciser alors lequel dans la colonne "Observations")

Code

Inscrire:

- S pour SHIP (FM 13-IX)
- D pour DRIBU (FM 14-VIII)
- B pour BATHY (FM 63-IX)
- W pour WAVEOB (FM 65-IX)
- U pour BUFR (Forme universelle de représentation binaire des données météorologiques) (FM 94-IX)
- O pour tout autre code utilisé (préciser alors lequel dans la colonne "Observations")

Disponibilité des Données

Inscrire:

- G si les données sont diffusées par l'intermédiaire du SMT
- M si les données sont disponibles sur un support utilisable sur des micro-ordinateurs différents
- C si les données sont disponibles sur un support utilisable sur des ordinateurs différents (autre que des micro-ordinateurs)
- L si les données sont disponibles sur listages (ou support équivalent, tel que bande perforée etc.)
- R si l'accès aux données est réservé
- O dans les autres cas (préciser alors dans la colonne "Observations")

Situation

Inscrire:

- O pour "opérationnel"
- E pour "expérimental"
- P pour "prévu"
- F pour "fonctionnement défectueux" (au cours des six derniers mois)
- A pour "à la dérive" ou "au large de la station"

Utiliser plus d'une lettre si besoin est.

Observations

Porter ici en clair toute observation utile.

INFORMACION SOBRE LOS ODAS QUE NO VAN A LA DERIVA País: _____ Fecha: _____

NOTAS

Identificador

En la columna "OMM" se anotará el identificador de la OMM asignado a los ODAS, cuando lo haya (Código OMM: A₁b_wn_bn_bn_b).

ODAS

En la columna "Tipo" se anotará:

- M Para los datos obtenidos gracias a las boyas ancladas
- P Para una plataforma
- C Para una estación situada en las costas o en una isla
- O Para cualquier otra estación (se especificará entonces en la columna "Comentarios")

En la columna "Casco":

Si el "Tipo" es M, se anotará:

- xxD Para una boyá en forma de disco de xx metros de diámetro
- xxS Para una boyá en forma de pértiga de xx metros de altitud sobre el nivel del mar
- xxB Para una boyá en forma de buque de xx metros de longitud
- O Para cualquier otro tipo de boyá (se especificará entonces en la columna "Comentarios")

- Si se trata de otro tipo, se anotará O y se especificará en la columna "Comentarios".

Localizacion

Se anotará la posición actual o prevista (L_aL_a.L_aL_a N o S / L_oL_oL_o.L_oL_o E o W) y la fecha (DD/MM/YY) del despliegue.

Parametros Medidos

Se anotará en la columna adecuada el número de observaciones realizadas al dia y, cuando proceda, el de los niveles observacionales para las mediciones subsuperficiales. Cuando se mida la salinidad y/o la corriente en la superficie del mar (o cerca de ella), se anotará la letra S en la columna adecuada. Se anotará la letra R cuando los datos se registren a bordo de los ODAS. Si se utiliza la columna "Varios", se especificará en la columna "Comentarios".

Medios De Transmision

Se anotará:

- H Para HF
- V Para VHF
- A Para el sistema Argos
- M Para los satélites meteorológicos o ambientales
- I Para INMARSAT
- O Para cualquier otro medio de transmisión (se especificará entonces en la columna "Comentarios")

Forma Del Codigo

Se anotará:

- S Para SHIP (FM 13-IX)
- D Para DRIBU (FM 14-VIII)
- B Para BATHY (FM 63-IX)
- W Para WAVEOB (FM 65-IX)
- U Para BUFR (Forma Binaria Universal para la Representación de Datos Meteorológicos) (FM 94-IX)
- O Para cualquier otra forma de código usada (se especificará entonces en la columna "Comentarios")

Disponibilidad De Los Datos

Se anotará:

- G cuando los datos circulan a través del SMD
- M cuando los datos se obtengan mediante un transmisor compatible con las microcomputadoras
- C cuando los datos se obtengan mediante un transmisor compatible con las computadoras (además de las microcomputadoras)
- L cuando los datos se obtengan mediante cintas de papel (u otro medio equivalente, como cintas de papel perforadas, etc.)
- R cuando la disponibilidad de los datos sea limitada
- O en otros casos (se especificará entonces en la columna "Comentarios")

Posicion

Se anotará:

- O Operacional
- E Experimental
- P Planificado
- F Fallido (durante los seis últimos meses)
- A las boyas a la deriva o situadas fuera de una estación

Utilícese mas de una letra cuando sea necesario.

Comentarios

Anótese cualquier comentario pertinente en lenguaje sencillo.

СВЕДЕНИЯ О НЕДРЕЙФУЮЩИХ ССОД

CTPAHA:

ДАТА:

ПРИМЕЧАНИЯ

Обозначение

В колонку «ВМО» вносится обозначение ВМО, закрепленное за ССОД, если таковое имеется (код ВМО : A₁ b_w n_b n_b n_b).

В колонку «ПРОЧЕЕ» вносится любое другое национальное международное обозначение или опознавательный знак (или указывается его вид).

ССОД

В колонку «Тип» вносятся :

- M для заякоренных буев для сбора данных
- P для платформ
- C для береговой или островной станции
- O для любой другой станции (в этом случае уточняется в колонке «ЗАМЕЧАНИЯ»)

В колонке «Корпус» :

- если «Тип» обозначен как M, вносится :

- xxD для дискового буя : xx метров в диаметре
- xxS для мачтового буя : xx метров высоты над поверхностью моря
- xxB для буев в форме лодки : xx метров в длину
- O для любого другого типа буев (в этом случае уточняется в колонке «ЗАМЕЧАНИЯ»)

- во всех других случаях указывается O и уточняется в колонке «ЗАМЕЧАНИЯ»)

Местоположение

Указывается фактическое и запланированное положение (L_a L_a . L_a L_a N или S / L_a L_a L_a . L_a L_a E или W) и данные (DD / MM / YY) о размещении.

Изменяемые параметры

В соответствующей колонке указывается количество произведенных за день наблюдений и (в надлежащих случаях) количество уровней наблюдений для поверхностных измерений. В случае измерения солености и/или течения на уровне поверхности моря (или близком к ней) в соответствующую колонку вносится буква S. Если данные фиксируются непосредственно на ССОД, то вносится буква R. В том случае, если используется колонка «ПРОЧЕЕ», необходимо внести уточнение в колонке «ЗАМЕЧАНИЯ».

Средства передачи

Указывается :

- H для передачи ВЧ
- V для передачи ОВЧ
- A для системы Аргос
- M для метеорологических/экологических спутников
- I для ИНМАРСАТ
- O для любых других средств передачи (в этом случае уточняется в колонке «ЗАМЕЧАНИЯ»)

Форма кода

Указывается :

- S для ШИП (FM 13 – IX)
- D для ДРИБУ (FM 14 – VIII)
- B для БАТИ (FM 63 – IX)
- W для BABEOB (FM 65 – IX)
- U для БУФР (Универсальная двоичная форма для представления метеорологических данных) (FM 94 – IX)
- O для любой другой используемой формы кода (в этом случае уточняется в колонке «ЗАМЕЧАНИЯ»)

Наличие данных

Указывается :

- G если данные распространяются через ГСТ
- M если данные имеются на носителе, совместном с
 микро-ЭВМ
- C если данные имеются на носителе, совместном с ЭВМ
 (кроме микро-ЭВМ)
- L если данные имеются в перечнях (или на эквивалентных
 Средствах, таких как перфорированные бумажные ленты
 и т.п.)
- R если ограничен доступ к данным
- O во всех иных случаях (указать в колонке «ЗАМЕЧАНИЯ»)

Статус

Указывается :

- O для действующего
- E для экспериментального
- P для планируемого
- F для прекратившего функционирование (за последние
 шесть месяцев)
- A для дрейфующего или находящегося вне станции
- B случае необходимости используется несколько букв

Замечания

Указываются любые соответствующие замечания обычным текстом

INFORMATION ON NON-DRIFTING ODAS

Country: Argentina*

Date: May 1993

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED																		
WMO#	OTHER	Type	Hull	POSITION		DATE		Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
USHUAIA MAR DEL PLATA ESPERANZA		C		54°47'S 68°20'W		May 13,1991		240	240		24						240	M	O	M	O	Sea level GOES		
		C		38°03'S 57°30'W		Feb 4,1992		240	240		24						240	M	O	M	O	Sea level GOES		
		C		63°18'S 56°55'W		Feb 28,1993		240	240		24						240	M	O	M	O	Sea level GOES		

* No report received since 1993

INFORMATION ON NON-DRIFTING ODAS

Country: Australia

Date: 1 June 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM			DATA AVAILABILITY			STATUS			COMMENTS		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	D	G	O	D	G	O	D	G	O	
55014		M	0	35.72°S	150.34°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55017		M	0	28.70°S	153.75°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55018		M	0	30.35°S	153.27°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55019		M	0	31.82°S	152.86°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55020		M	0	37.29°S	150.18°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55022		M	0	34.48°S	151.02°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
55024		M	0	33.78°S	151.39°E	Dec 11,1992					X								D	G	O						Wave rider buoys		
56002		F	0	19.58°S	116.14°E	Sep 10,1990	X	X	X		X	X	X					D	G	O						North Rankin oil platform			
55025		M	0	35.18°S	138.30°E	Aug 28,1997	X	X	X									D	G	O						Wave rider buoys			
55038	Argos 2946	M	02S	33.9°S	151.3°E	Mar 22,1999	X	X	X	X	X		X					D	G	O									

INFORMATION ON NON-DRIFTING ODAS

Country: Canada

Date: 1 January 1996

IDENTIFIER		ODAS	LOCATION		VARIABLES MEASURED										TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS		
WMO#	OTHER	Type	Hull	POSITION	DATE	air temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others				
44137		M	06B	41 50'N 060 56'W	Sep-88	24	24	24	24	24	24	24	24					M	S	G	O
44138		M	06B	44 16'N 053 37'W	Oct-88	24	24	24	24	24	24	24	24					M	S	G	O
44139		M	06B	44 11'N 057 33'W	Sep-88	24	24	24	24	24	24	24	24					M	S	G	O
44140		M	06B	43 50'N 051 30'W	Jul-91	24	24	24	24	24	24	24	24					M	S	G	O
44141		M	06B	42 07'N 056 11'W	Apr-91	24	24	24	24	24	24	24	24					M	S	G	O
44142		M	06B	42 30'N 064 01' W	Aug-90	24	24	24	24	24	24	24	24					M	S	G	O
44251		M	06B	46 26'N 053 23'W	Mar-98	24	24	24	24	24	24	24	24					M	S	G	O
44255		M	06B	47 17'N 057 21'W	Mar-98	24	24	24	24	24	24	24	24					M	S	G	O
45132		M	03D	42 28'N 081 13'W	Apr-86	24	24	24	24	24	24	24	24					M	S	G	O
45135		M	12D	43 47'N 076 52'W	May-91	24	24	24	24	24	24	24	24					M	S	G	O
45136		M	03D	48 32'N 086 57'W	Aug-88	24	24	24	24	24	24	24	24					M	S	G	O
45137		M	03D	45 33'N 081 01'W	Jun-89	24	24	24	24	24	24	24	24					M	S	G	O
45138		M	03D	49 33'N 065 46'W	Apr-91	24	24	24	24	24	24	24	24					M	S	G	O
45139		M	12D	43 26'N 079 23'W	Jul-91	24	24	24	24	24	24	24	24					M	S	G	O
45140		M	*	50 29'N 096 26'W	May-98	*	*	*	*	*	*	*	*					A	S	G	O
45141		M	03D	61 07'N 115 11'W	Jul-92	24	24	24	24	24	24	24	24					M	S	G	O
45142		M	03D	42 44'N 079 17'W	May-94	24	24	24	24	24	24	24	24					M	S	G	O
45143		M	03D	44 55'N 080 38'W	Jun-96	24	24	24	24	24	24	24	24					M	S	G	O
45150		M	*	61 55'N 113 45'W	Jul-98	*	*	*	*	*	*	*	*					A	S	G	O
46004		M	06B	50 58'N 135 48'W	Feb-85	24	24	24	24	24	24	24	24					M	S	G	O
46036		M	06B	48 21'N 133 55'W	May-86	24	24	24	24	24	24	24	24					M	S	G	O
46131		M	03D	49 54'N 124 59'W	Oct-92	24	24	24	24	24	24	24	24					M	S	G	O
46132		M	03D	49 44'N 127 55'W	Oct-93	24	24	24	24	24	24	24	24					M	S	G	O
46134		M	03D	48 39'N 123 27'W	Nov-98	24	24	24	24	24	24	24	24					M	S	G	E
46145		M	03D	54 23'N 132 26'W	Apr-91	24	24	24	24	24	24	24	24					M	S	G	O
46146		M	03D	49 20'N 123 44'W	Mar-92	24	24	24	24	24	24	24	24					M	S	G	O
46147		M	03D	51 49'N 131 12'W	May-93	24	24	24	24	24	24	24	24					M	S	G	O
46181		M	03D	53 50'N 128 50'W	May-86	24	24	24	24	24	24	24	24					M	S	G	O
46183		M	03D	53 37'N 131 06'W	Apr-91	24	24	24	24	24	24	24	24					M	S	G	O
46184		M	06B	53 54'N 138 52'W	Sep-87	24	24	24	24	24	24	24	24					M	S	G	O
46185		M	03D	52 24'N 129 47'W	Sep-90	24	24	24	24	24	24	24	24					M	S	G	O

Last update: 2002/01/31

Canada

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED																	
WMO#	OTHER	Type	Hull	POSITION		DATE	air temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
46204		M	03D	51 22'N	128 45'W	Jul-89	24	24	24	24	24	24	24	24				M	S	G	O		
46205		M	03D	54 10'N	134 20'W	Nov-88	24	24	24	24	24	24	24	24				M	S	G	O		
46206		M	03D	48 50'N	126 00'W	Nov-88	24	24	24	24	24	24	24	24				M	S	G	O		
46207		M	03D	50 52'N	129 55'W	Jul-89	24	24	24	24	24	24	24	24				M	S	G	O		
46208		M	03D	52 30'N	132 42'W	Jul-89	24	24	24	24	24	24	24	24				M	S	G	O		

INFORMATION ON NON-DRIFTING ODAS

Country: China *

Date: 15 March 1992

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED																	
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
	B F I L	M M M M	10D 10D 03D 10D	38° 00'N 123°28'E 29°31'05"N 124°00'05"E 20°30'N 113° 54'E 18°03'12"N 116°30'30"E		SEP 7 1991 Jul 14 1991 Feb 29 1992 Jun 1 1991	4 4 4 4	4 4 4 4		4 4 4 4	4 4 4 4			4 4 4 4				HF HF A HF	S S S S	M M M M	O O O O	Buoy No.15 Buoy No.17 Buoy No.1 Buoy No.20	

* No report received since 1992

INFORMATION ON NON-DRIFTING ODAS

Country: Ecuador

Date: 2 March 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												DATA AVAILABILITY				COMMENTS	
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	STATUS		
SAN LORENZO ESMERALDAS MANTA LA LIBERTAD GUAYA- QUIL PUNA PTO. BOLIVAR		C	01°17.7'N 79°50.5'W	01°17.7'N 79°50.5'W	Jan 01,1975	7	7		7	7		7		3		1		O	L	O	Transmitted by e-mail		
		C		00°59.7'N 79°38.7'W	Jan 01,1975	7	7		7	7		7		3		1		O	L	O			
		C		00°56.3'S 80°44.2'W	Jan 01,1975	7	7		7	7		7		3		1		O	L	O			
		C		02°12'S 80°54.2'W	May 7, 1988	7	7		7	7		7		3		1		O	L	O			
		C	02°16.1'S 79°54.3'W	02°16.1'S 79°54.3'W	Oct 3,1974	7	7		7	7		7		3		1		O	L	O	Transmitted by fax		
		C		02°44.2'S 79°54.5'W	Jan 01,1977	7	7		7	7		7		3		1		O	L	O			
		C		03°15.4'S 80°00'W	Jan 01,1977	7	7		7	7		7		3		1		O	L	O			

INFORMATION ON NON-DRIFTING ODAS

Country: Finland *

Date: December 1992

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others		
02862	Ajos	C		65.44 N 24.31 E		1990/10/01	8	8	8	8	8					O	O	G	O	1. Telephone line (TL) 2. SYNOP (S)
02979	Bogskar	P		59.30 N 20.21 E		1982/01/01	8	8	8	8	8					O	O	G	O	1.Nordic Mobile Telephone (NMT) 2. S
02561	Bredskaret	C		62.55 N 21.11 E		1991/05/29	8	8	8	8	8					O	O	C	O	1. TL 2. S
02991	Emasalo	C		60.13 N 25.38 E		1991/04/03	8									O	O	G	O	1. TL 2. S
05950	Fagerholm	C		60.07 N 21.42 E		1989/05/24	8	8	8	8	8					O	O	C	O	1. TL 2. S
02967	Haapasaari	C		60.17 N 27.11 E		1985/06/01	8	8	8	8	8					O	O	G	O	1. TL 2. S
05387	Hanko	C		59.48 N 22.54 E		1990/06/01	8	8	8	8	8					O	O	C	O	1. TL 2. S
05795	Harmaja	C		60.06 N 24.59 E		1989/06/21	8	8	8	8	8					O	O	C	O	1. TL 2. S
05396	Jussaro	C		59.50 N 23.35 E		1990/06/01	8	8	8	8	8					O	O	C	O	1. TL 2. S
02987	Kalbadagrund	P		59.59 N 25.36 E		1977/11/10	8	8	8	8	8					O	O	G	O	1. NMT 2. S
02863	Kemi I	P		65.23 N 24.06 E		1978/01/01	8	8	8	8	8					O	O	G	O	1. NMT 2. S
02932	Kristiinan-Kaupunki	C		62.15 N 21.19 E		1984/01/01	8	8	8	8	8					O	O	G	O	1. TL 2. S
05562	Kylmapihlaja	C		61.09 N 21.18 E		1990/06/06	8	8	8	8	8					O	O	C	O	1. TL 2. S
02993	Market	P		60.18 N 19.08 E		1977/11/10	8	8	8	8	8					O	O	G	O	1. NMT 2. S
02980	Nyhamn	C		59.58 N 19.58 E		1990/05/01	8	8	8	8	8					O	O	G	O	1. NMT 2. S
02992	Orrengrund	C		60.16 N 26.27 E		1991/04/04	8									O	O	G	O	1. TL 2. S
05872	Raahe	C		64.41 N 24.28 E		1990/10/01	8	8	8	8	8					O	O	C	O	1. TL 2. S
05295	Rajakari	P		60.23 N 22.01 E		1991/06/05	8	8	8	8	8					O	O	C	O	1. TL 2. S
02907	Ulkokalla	C		64.20 N 23.27 E		1977/11/10	8	8	8	8	8					O	O	G	O	1. NMT 2. S
05382	Vano	C		59.52 N 22.12 E		1990/06/01	8	8	8	8	8					O	O	C	O	1. TL 2. S

* No report received since 1992

INFORMATION ON NON-DRIFTING ODAS

Country: France

Date: December 1992

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												DATA AVAILABILITY				DP - Dew Point	MG - Max Gust	D - FM18 BUOY
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA STATUS	COMMENTS		
41097	Martinique 1	M	0	14°54'N	61°09'W	Apr 1995					48	48	48						HA	D	GM	O	Datawell directional waverider	
41098	Martinique 2	M	0	14°39'N	60°49'W	Jul 1997	24	24	24	24	24	24	24	24				HA	D	GM	O	Oceanilles programme		
41100	ODAS Antilles 1	M	4S	15°56'N	57°55'W	Feb 1999	24	24	24	24	24	24	24	24				DP MG	M	SW	GC	O	Datawell directional waverider	
41101	ODAS Antilles 2	M	4S	14°37'N	56°15'W	Feb 1999	24	24	24	24	24	24	24	24				DP MG	M	SW	GC	O	Oceanilles programme	
61001	ODAS Nice	M	4S	43°23'N	07°50'E	Mar 1999	24	24	24	24	24	24	24	24				DP MG	M	SW	GC	O	Oceanilles programme	
62001	ODAS Gascogne	M	4S	45°14'N	05°00'W	Jul 1998	24	24	24	24	24	24	24	24				DP MG	M	S	GC	O	Co-operative project between Meteo-France and	
62051	Le Havre	M	11D	49°30'N	00°12'W	Mar 1998	24				24			24				V	S	G	O	Aid-to-Navigation buoy		
62163	ODAS Brittany	M	4S	47°32'N	08°30'W	Apr 1995	24	24	24	24	24	24	24	24				DP MG	M	S	GC	O	Co-operative project between Meteo-France and	
13010	SOUL	M	0	0°00'N	0°00'E	Feb 1998	24				24		24	24				A	D	GC	F	Pirata Project		
15001	GAVOTTE	M	0	10°00'S	10°00'W	Sep 1997	24				24		24	24				A	D	GC	O	Toroidal ATLAS buoy		
15002	JAVA	M	0	0°00'N	10°00'W	Sep 1997	24				24		24	24				A	D	GC	O	Toroidal ATLAS buoy		
15003	VALSE	M	0	6°00'N	10°00'W	Jan 1999	24				24		24	24				A	D	GC	O	Pirata Project		
	RYTHM	M	0	2°00'N	10°00'W	Sep 1999	24				24		24	24				A	D	GC	P	Toroidal ATLAS buoy		

Last update: 2002/01/31

France

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS			DP - Dew Point MG - Max Gust D - FM18 BUOY		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	
	BLUES	M	0	2°00'N 10°00'W		Sep 1999	24			24				24	24			A	D	GC	P	Toroidal ATLAS buoy Pirata Project	

INFORMATION ON NON-DRIFTING ODAS

Country: Germany

Date: August 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS			
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAIL.	STATUS
10005		C	0	11° 44' E	01.07.90											24	O	O	C	Radioactivity Wave rider Sphere, 1) Bulletin Number 2) Relative Humidity	
		M		54° 59,8' N	1905												2)	A	M	G	
		O ⁷⁾		54° 00' N													3)	O ⁶⁾		O	
				08° 07' E	1988	24	24	8	24	24							2)	M	G	O	
				54°10' N													3)	O ⁶⁾		O	
10007		O ⁷⁾		07° 27' E	1986	24	24	8	24	24							5)	M	G	O	
10004		O ⁷⁾		54° 10' N	1988	24	24	8	24	24							2)	M	G	O	
		54° 30' N														2)	O ⁶⁾		O		
10044		O ⁸⁾		10° 16' E	1970	24	24	8	24	24							3)	M	G	O	
10124		O ⁸⁾		53° 52' N													4)	M	G	O	
IFM Wa		M	0	08° 08' E	1970	24	24	8	24	24							5)	M	O ⁶⁾		Sub-surface mooring
		M		54° 41,8' N	Jun-77													L	O		
				12° 42,4' E														R	EP		
		META-2		54° 41,8' N	Sep-91				X												Mast mooring Moored measuring platform (pontoon) "META-2" 1) Turbidity; seston concentration
				12° 42,4' E	1.91					X											
		META-1		km 669																	
				River Elbe																	
				km 698																	
				73° 38' S																	
		AW1 213/2		26° 07' W	06.02.91	X				X								C	O		sub-surface moorings
		AW1 400		57° 38' S						X								C	O		sub-surface moorings
				04° 03' E	21.03.91																

INFORMATION ON NON-DRIFTING ODAS

Country: Greece *

Date: 4 May 1989

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
16732		C	0	25°32E 37°06N		1955	8	8	8	8	8				3			O	G	O	Island Station (NAXOS)	
16717		C	0	23°38E 37°56N		1956	6	6	6	6	6				3			O	L	O	Coastal Station (PIREAS)	
Transmission by telex or telephone in SYNOP code form																						

INFORMATION ON NON-DRIFTING ODAS

Country: India

Date: 31.07.1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
	SW 1	M	02S	N 20.885 E 71.493		29-Jun-99	8	8		8	8	8	8		8	8	8	1	U	O	O	A- UNDER MAINTENANCE
	SW 2	M	02S	N 18.593 E 71.031		29-Jan-98	8	8		8	8	8	8		8	8	8	1	U	O	F	
	SW 3	M	02S	N 15.367 E 73.750		26-Jan-98	8	8		8	8	8	8		8	8	8	1	U	O	A	DATA WOULD BE CIRCULATED OVER GTS BY END OF 1999.
	DS1	M	03D	N 15.492 E 69.281		01-Feb-98	8	8		8	8	8	8		8	8	8	1	U	O	O	
	DS2	M	03D	N 10.672 E 72.510		23-Nov-98	8	8		8	8	8	8		8	8	8	1	U	O	F	
	SW 5	M	02S	N 08.699 E 78.339		16-Sep-97	8	8		8	8	8	8		8	8	8	1	U	O	O	
	SW 6	M	02S	N 13.096 E 80.321		21-Aug-97	8	8		8	8	8	8		8	8	8	1	U	O	O	
	DS3	M	03D	N 13.034 E 86.934		19-Jul-99	8	8		8	8	8	8		8	8	8	1	U	O	O	
	DS4	M	03D	N 17.990 E 88.090		07-Jun-98	8	8		8	8	8	8		8	8	8	1	U	O	O	

INFORMATION ON NON-DRIFTING ODAS

Country: Iran *

Date: June 1998

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM		DATA AVAILABILITY		COMMENTS	
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means			STATUS	
	30136 - 50 30110 (serial numbers)			29°45'N 55°44'E 25°16'N 60°39'E		29 01 95 26 01 95					X X		X X						O O		Bushehr Port - wave recorders Chabahar Port - wave recorders		

* No report received since 1999

INFORMATION ON NON-DRIFTING ODAS

Country: Israel *

Date: 30 May 1995

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM			DATA AVAILABILITY			STATUS			COMMENTS		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Waves (PP,HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	L	O	L	O	L	O	buoy DATAWELL near coastal station Hadera			
		M M M		32 30 N 34 50 E 31 50 N 34 38 E 34 56 N 32 50 E		Aug-89 May-92 Apr-94	24 24 24	24 24 24	8 8 8	24 24 24	8 8 8	8 8 8	24						L L L	O O O					buoy DATAWELL near coastal station Ashdod buoy DATAWELL near coastal station Haifa				

* No report received since 1995

INFORMATION ON NON-DRIFTING ODAS

Country: Japan

Date: 1 April 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS						
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS		
21002	ODAS -J7 ODAS-J6 ODAS-J8	M	10D	37°55' N	134°33' E	10 Nov 1976	8	8	8	8	8	8	8	8	2	12	12	1	8	M	S B	G	O	Solar radiation
21004		M	10D	29°00' N	135°00' E	09 Jun 1982	8	8	8	8	8	8	8	8	2	12	12	1	8	M	S B	G	O	Solar radiation
22001		M	10D	28°10' N	126°20' E	05 Sep 1974	8	8	8	8	8	8	8	8	2	12	12	1	8	M	S B	G	O	Solar radiation
52071		M	2.4D	7°58' N	156°02' E	25 Feb 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52072		M	2.4D	5°01' N	155°58' E	27 Feb 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52073		M	2.4D	1°55' N	156°00' E	01 Mar 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52075		M	2.4D	2°01' S	155°57' E	05 Mar 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52076		M	2.4D	5°03' S	156°03' E	07 Mar 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52077		M	2.4D	4°52' N	146°58' E	16 Feb 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52078		M	2.4D	2°04' N	146°57' E	18 Feb 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	
52079		M	2.4D	0°05' N	146°51' E	20 Feb 1999	8	8	8	8	8	8	8	8	12	12	12	1	A	O	G	O	FM18	

INFORMATION ON NON-DRIFTING ODAS

Country: Kuwait * (Arabian Gulf) Date: 27 March 1989

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM				DATA AVAILABILITY				STATUS				COMMENTS			
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	V	O	M	P										
not yet assigned	not yet assigned	M	0	29° 10' N 48° 10' E		July/1989					14	8							V	O	M	P	Hull: Sperical data buoy with 1 m diameter										

* No report received since 1989

INFORMATION ON NON-DRIFTING ODAS

Country: Madagascar *

Date: 25 May 1989

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS			
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
		M	D			6 R	6 R	6 R	6 R	6 R	6 R				6 R S	6 R S		U	R	P	

* No report received since 1989

INFORMATION ON NON-DRIFTING ODAS

Country: Malaysia *

Date: 6 January 1997

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
	Tapis-A Duyong E-11 M3PQ Baronia South Furious	P P P P P P		5.5N 105.0E 5.0N 105.2E 4.3N 112.6E 5.2N 111.8E 4.7N 113.7E 6.7N 116.2E	1.10.85 1.6.89 5.5.82 23.9.95 N/A N/A		2 2 2 2 2 2	2 2 2 2 2 2		2 2 2 2 2 2	2 2 2 2 2 2		2				O O O O O O	O O O O R R	G G G R O O	O O O O O O	TransMeans= all observed variables are received by fax from platforms Code Form= data are received in local format	

* No report received for 1998 and 1999

INFORMATION ON NON-DRIFTING ODAS

Country: Mauritius *

Date: May 1998

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										DATA AVAILABILITY				COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	O ²	O ³	STATUS	
		0.7 D		20° 20'S 57° 42'E		1998/02/04					8				8				V ¹	O ²	O ³		Wave-rider buoy 1. To coastal receiving station 2. Plain language	

* No report received for 1999

INFORMATION ON NON-DRIFTING ODAS

Country: Mexico *

Date: January 1996

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
	IXTOC-A CAYO ARCAS ECO-1	P P P		19°24'.4N 092°12'.7W 20°09'.8N 091°57'.8W 19°01'.8N 092°01.1W			X	X	X	X	X	X					O O	S S	O O		COMPRESSED FORMAT	

* No report received since 1996

INFORMATION ON NON-DRIFTING ODAS

Country: The Netherlands * Date: 1 June 1996

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means			
6320	GOEREE LE	P		51°56'N 3°40'E		24	24	24	24	24	24	24	24			24	H	O*	GCL	O	Windgust, mean max. wind, visibility
06253	AUK-ALFA	P		56°24'N 2°04'E		24	24	24	24	24	24	24	24			24	H	O*	RCL	O	Windgust, mean max. wind, NB wave spectra not transmitted
06252	K-13-A	P		53°13'N 3°13'E		24	24	24	24	24	24	24	24			24	H	O*	GCL	O	Windgust, mean max. wind
06254	Meetpost Noordwijk	P		52°16'N 4°18'E		24	24	24	24	24	24	24	24			24	H	O*	GCL	O	Windgust, mean max. wind
06321	EURO Platform	P		52°00'N 3°17'E		24	24	24	24	24	24	24	24			24	H	O*	GCL	O	Windgust, mean max. wind, visibility
06255	Noorde-lijke Zeeraaf	P		61°14'N 1°09'E		24	24	24	24	24	24	24	24				M	O*	RCL	O	
06239	F3	P		54°51'N 4°44'E		24	24	24	24	24						24	M	O*	GCL	O	Spectra not windgust, mean max. wind, cloud base, visibility

* No report received since 1996

INFORMATION ON NON-DRIFTING ODAS

Country: Oman *

Date: 04/01/1993

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means				
23051	Mina Qaboos	M	xxD	23.7N 58,E		30348	8			8	8	8	8	8					O	S	G M	A	Original positon has been changed more than once but within a degree of the position indicated here.
23052	Sur	M	xxD	22-35.33N 59-32.6E		Feb-83	8			8	8	8	8	8					O	S	G M	A	Transmission is by means of UHF radio. Mina Qaboos buoy is CODE FORM: Fm 18-IX Extn.
23053	Mina Raysut	M	xxD	54-01.45E 16-56.10N		Apr-92																	

* No report received since 1993

INFORMATION ON NON-DRIFTING ODAS

Country: Peru

Date:

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others				
	EL SALTO	C		03°25' S	80°18' W	Jan-77	4	4	4	4	4				4				O	O	M	MONTHLY SYNOP BY MAIL
	PAITA	C		05°05' S	81°06' W	Jun-78	4	4	4	4	4				4				O	O	M	MONTHLY SYNOP BY MAIL
	ISLA LOBOS A.	C		06°36' S	80°42' W	Jun-79	4	4	4	4	4				4				O	O	M	MONTHLY SYNOP BY MAIL
	SALAVE-RRY	C		08°13' S	68°58' W	Jun-78	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	CHIM-BOTE	C		09°04' S	68°36' W	Jun-78	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	CHICUITO	C		12°03' S	77°09' W	Apr-77	20	8	8	20	20				8				O	O	M	SYNOP MESSAGE BY MAIL
	PISCO SAN	C		13°42' S	W	Jun-80	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	JUAN ATICO	C		15°21' S	75°09' W	Oct-78	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	MOLLEN-	C		16°13' S	73°37' W	Jul-80	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	DO ILO	C		16°59' S	72°06' W	Jul-78	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
	MALA-BRIGO	C		17°37' S	77°21' W	Jul-78	4	4	4	4	4				4				O	O	M	SYNOP MESSAGE BY MAIL
				07°42' S	79°26' W	Jul-95	4	4	4	4	4				4							SYNOP MESSAGE BY MAIL

* No report received for 1998 and 1999

INFORMATION ON NON-DRIFTING ODAS

Country: Portugal * (Hydrographic Institute (IH))

Date: 14 December 1992

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										DATA AVAILABILITY			COMMENTS			
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	STATUS	
CSA	91D	M	0	41°1.1' N 009°87.7' W		Jul-90								8					H	M C L	O	figueira da Fuz Wave directional buoy
	83/6D	M	0	37°56.1' N 008° 53.6' W		May-89								8					H	M C L	O	2.5 m-ø Sines/DW6 directional buoy
	83/1D	M	0	37°55.3' N 008°55.7' W		May-88								8					H	M C L	O	2.5 m-ø Sines/DW1 directional buoy
	83/5	M	0	37°54.2' N 008°48.3' W		Feb-89								8					H	M C L	O	2.5 m-ø Sines/DW7 Waverider
	82	M	0	36°54.3' N 007°53.9' W		Sep-86								8					H	M C L	O	0.7 Faro directional buoy
	94	M	0	32°37.1' N 016°56.5' W		Aug-89								8					H	M C L	O R	2.5 m-ø Mad/Funchal Waverider
	80	M	0	22°08.0' N 113°36.0' E		May-84								8					H	M C L	O R	0.7 m-ø Acores/P.del
	97	M	0	37°43.5' N 025°43.5' W		Mar-89								8					H	M C L	O R	0.7 Waverider
	96	M	0	36°55.5' N 025°10.5' W		Apr-90								8					H	M C L	O R	0.7 Acores/St. Maria Waverider
	92	M	0	40°39.3'N 008°48.7' W		Apr-91								8					H	M C L	O R	0.7 m-ø Aveiro Waverider

Last update: 2002/01/31

Portugal

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS					
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS		
	CSA92/D	M	0	40°38.5' N 009°07.5' W	Apr-92						8							H	M	C L	O	Aveiro directional buoy 2.5 m-ø Acores/Flores Waverider m-ø	Wave
	CSA98	M	0	39°22.3' N 031°09.5' W	Aug-88						8							H	M	C L	O R		0.7

* No report received since 1992

INFORMATION ON NON-DRIFTING ODAS

Country: South Africa *

Date: June 1998

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										CODE FORM		DATA AVAILABILITY		STATUS		COMMENTS	
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means				
		M	3S	34°09'53" S 24°53'20" E		Jun-91							X			X			M	O			

* No report received for 1999

INFORMATION ON NON-DRIFTING ODAS

Country: Sweden

Date: 23 June 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM				DATA AVAILABILITY		STATUS				COMMENTS			
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means												
02499		P		N5909	E1908	04-06-70	24			24	24	24	24	24/1		24/10x		O	O	R	O	Telecommunication									
02685		P		N5606	E1641	06-10-78	24			24	24	24	24	24/2		24/10x		O	O	R	O	Telecommunication									
02970		P		N5713	E1150	08-02-88	24			24	24	24	24	24/2		24/5x		O	O	R	O	Telecommunication									
02517		P		N5736	E1138	12-07-78	24			24	24	24	24	24/4		24/1		O	O	R	O	Sea level	Telecommunication								
02501		P		N5833	E1102	01-02-81	24			24				24/1				O	O	R	O	Telecommunication									
																					Data available on request in different forms after special agreement x ADCP measurements										

INFORMATION ON NON-DRIFTING ODAS

Country: Thailand * Date: 10 May 1995

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
48459		C		13° 22' N	100° 59' E	01-Nov-43	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48460		C		13° 10' N	100° 48' E	01-Aug-58	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48465		C		13° 09' N	100° 04' E	01-Sep-75	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
49475		C		12° 35' N	99° 57' E	01-Jun-40	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48500		C		11° 50' N	99° 50' E	11-Feb-37	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48501		C		11° 46' N	102° 53' E	01-Apr-44	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48550		C		09° 28' N	100° 03' E	01-Jan-67	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48561		C		08° 51' N	98° 16' E	16-Jun-75	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48565		C		08° 07' N	98° 19' E	01-Jan-52	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48566		C		07° 32' N	99° 03' E	01-Jan-82	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48568		C		07° 12' N	100° 36' E	01-Aug-36	5	5	5	5	5	5						V	O	G	O	0 - for SYNOP (FM 12- VII)
48583		C		06° 25' N	101° 49' E	01-Aug-43	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48460		C		13° 10' N	100° 48' E	11-Aug-58	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
48478		C		12° 38' N	101° 21' E	15-Apr-80	8	8	8	8	8	8						V	O	G	O	0 - for SYNOP (FM 12- VII)
				13° 22' 38 N																		
48457		C		100° 35' 58 E		01-Nov-93	5	5	5	5	5	5						V	O	G	O	0 - for SYNOP (FM 12- VII)
				15° 04' 37 N																		
48463		C		100° 52' 33 E		01-Nov-93	5	5	5	5	5	5						V	O	G	O	0 - for SYNOP (FM 12- VII)
				09° 14.352' N																		
48553		C		099° 51.671' E		01-Nov-93	5	5	5	5	5	5						V	O	O	O	0 - for SYNOP (FM 12- VII)
				08° 03.745' N																		
48563		C		098° 54.395' E		01-Nov-93	5	5	5	5	5	5						V	O	G	O	0 - for SYNOP (FM 12- VII)
				13° 42' 25.09" N																		
48454		C		100° 34' 5.13" E		01-Nov-93	5	5	5	5	5	5						V	O	G	O	0 - for SYNOP (FM 12- VII)
		M		11.9 N	102.2 E													A				Name of buoy: KOCHANG*
		M		12.5N	101.2 E													A				Name of buoy: RAYONG*
		M		13.0 N	100.8 E													A				Name of buoy: KOSICHANG*
		M		12.5 N	100.1 E													A				Name of buoy: HUAHIN*
		M		10.2 N	099.9 E													A				Name of buoy: KOTOA*
		M		09.7 N	101.4 E													A				Name of buoy: PLATONG*
		M		07.2 N	101.1 E													A				Name of buoy: SONGHLA*

Last update: 2002/01/31

Thailand

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED																
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
																						* These buoys have been deployed since December 1991 under THAI SEAWATCH Project.

* No report received since 1995

INFORMATION ON NON-DRIFTING ODAS

Country: United Kingdom

Date: August 1999

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				S-	
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	DP -
62103	LV Channel	O		49°55'N	02°53'W	June 1989	24	24	24	24	24	24	24	24				DP MG VIS	M	S	CG	O	Light Vessel
62305	LV Greenwich	O		50°25'N	00°00'W	May 1994	24	24	24	24	24	24	24	24				DP MG VIS	M	S	CG	O	Light Vessel
62304	LV Sandettie	O		51°09'N	01°47'E	May 1993	24	24	24	24	24	24	24	24				DP MG VIS	M	S	CG	O	Light Vessel
62107	LV Seven Stones	O		50°04'N	06°04'W	Nov 1994	24	24	24	24	24	24	24	24				DP MG VIS	M	S	CG	O	Light Vessel
63111	Beryl'A'	P		59°33'N	01°32'W	1979	24	24	24	24	24	24	24				DP	TS	S MG	GC	O	As above. To be removed by 31/12/99	
03007	Muckle Holm	C		60°35'N	01°16'W	1980	24			24	24						DP	V	L MG	GC	O	Data obtained via VHF + PSTN	
03010	Sule Skerry	C		59°05'N	04°24'W	1981	24	24	24	24	24						DP	M	L MG	GC	O	Visibility availability from May 1995	

Last update: 2002/01/31

UK

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS	S					
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS		
03011	North Rona	C		59°08'N	05°50'W	August 1990	24	24	24	24	24						DP	M	L MG	GC	O	Operational		
03014	Foula	C		60°07'N	02°04'W	June 1983	24	24	24	24	24						DP	V	L MG	GC	O	VHF + PSTN		
62118	BPForties	P		57°45'N	00°55'E	Dec 1983	24	24	24	24	24						DP	M	S MG	GC	O	Visibility and weather added manually. To be removed by 31/12/99		
62165	Raven-spurn	P		54°02'N	01°07'E	Dec 1995	24	24	24	24	24						DP	M	S	GC	O	As above		
63103	North Cormorant	P		61°14'N	01°09'E	1984	24	24	24	24	24						DP	MW	S	G	O	MW + PSTN To be removed by 31/12/99		
62126	Morecambe Bay	P		58°51'N	03°35'W	1987	24	24	24	24	24						DP	V	S	G	O	VHF + PSTN		
62112	Brae'A'	P		58°42'N	01°17'E	1987	24	24	24	24	24						DP	V	S	G	O	VHF + PSTN		
62101	Lyme Bay	M	D	50°37'N	02°44'W	1981	24	24	24	24	24	24	24	24			DP	V	S	G	O	November 1997 Operational	The Eskmeals buoy was relocated in Luce Bay on 12/12/97	
62110	Luce Bay	M	D	54°45'N	04°46'W	Nov 1997	24	24	24	24	24	24	24	24			DP	V	S	CG	O	2.5 m toroidal hull to be removed by 31/12/99		
62301	Aberporth	M	D	52°17'N	04°30'W	April 1991	24	24	24	24	24	24	24	24			DP	V	S	CG	O	2.5 m toroidal hull	Operational from May 1995. A co-operative project between Meteo France & the UK Met Office	
62163	ODAS Brittany	M	4S	47°32'N	08°30'W	May 1995	24	24	24	24	24	24	24	24			DP	MG	M	S	CG	O		

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS		
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means				
62029	ODAS K1	M	4S	48°43'N	12°26'W	Dec 1991	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational Operational
62081	ODAS K2	M	4S	51°00'N	13°20'W	Dec 1991	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	The buoy was moved to the new location on 13 April 1997
62108	ODAS K3	M	4S	53°30'N	19°29'W	April 1997	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational
62105	ODAS K4	M	4S	55°25'N	12°34'W	October 1989	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational
64045	ODAS K5	M	4S	59°04'N	11°24'W	July 1994	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational
64046	K7			60°30'N	5°00'W	May 1999	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Deployed May 1999 for a year in the first instance
62106	RARH	M	4S	56°59'N	09°53'E	May 1994	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational
62100	ODAS K16	M	4S	57°00'N	00°00'	July 1995	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	Operational
62029	ODAS K17	M	4S	55°25'N	01°10'E	April 1998	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	The buoy was moved to a new location on 27 April 1998
62303	Turbot Bank	M	4S	51°37'N	05°09'W	May 1998	24	24	24	24	24	24	24	24				DP MG	M	S	CG	O	The St. Gowan buoy was relocated to the Turbot Bank in May 1998
Variables Measured represent the number of observations per day.																							

Last update: 2002/01/31

UK

INFORMATION ON NON-DRIFTING ODAS

Country: United States of America

Date: May 1999

IDENTIFIER		ODAS	LOCATION		VARIABLES MEASURED																	
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS
41001		M	6B	34.7N/72.6W	06/76	24	24	24	24	24	24	24	24					M	SW	G	O	Directional Waves
41002		M	6B	32.3N/75.2W	12/73	24	24	24	24	24	24	24	24					M	SW	G	O	
41004		M	3D	32.5N/79.1W	06/78	24	24	24	24	24	24	24	24					M	SW	G	O	
41008		M	3D	31.4N/80.9W	05/97	24	24	24	24	24	24	24	24					M	SW	G	O	
41009		M	6B	28.5N/80.2W	08/88	48	48	48	48	48	48	48	48					M	SW	G	O	
41010		M	6B	28.9N/78.5W	11/88	48	48	48	48	48	48	48	48					M	SW	G	O	
42001		M	10D	25.9N/89.7W	08/75	24	24	24	24	24	24	24	24					M	SW	G	O	
42002		M	10D	25.9N/93.6W	06/73	24	24	24	24	24	24	24	24					M	SW	G	O	
42003		M	10D	25.9N/85.9W	11/76	24	24	24	24	24	24	24	24					M	SW	G	O	
42007		M	3D	30.1N/88.8W	01/81	24	24	24	24	24	24	24	24					M	SW	G	O	
42019		M	3D	27.9N/95.4W	05/90	24	24	24	24	24	24	24	24					M	SW	G	O	
42020		M	3D	26.9N/96.7W	05/90	24	24	24	24	24	24	24	24					M	SW	G	O	
42035		M	3D	29.2N/94.4W	05/93	24	24	24	24	24	24	24	24					M	SW	G	O	
42036		M	3D	28.5N/84.5W	05/94	24	24	24	24	24	24	24	24					M	SW	G	O	
42039		M	3D	28.8N/86.0W	12/95	24	24	24	24	24	24	24	24					M	SW	G	O	
42040		M	3D	29.2N/88.3W	12/95	24	24	24	24	24	24	24	24					M	SW	G	O	
44004		M	6B	38.5N/70.7W	09/77	24	24	24	24	24	24	24	24					M	SW	G	O	
44005		M	6B	42.9N/68.9W	12/78	24	24	24	24	24	24	24	24					M	SW	G	O	
44007		M	3D	43.5N/70.1W	02/82	24	24	24	24	24	24	24	24					M	SW	G	O	
44008		M	3D	40.5N/69.4W	08/82	24	24	24	24	24	24	24	24					M	SW	G	O	
44009		M	3D	38.5N/74.7W	01/84	24	24	24	24	24	24	24	24					M	SW	G	O	
44011		M	6B	41.1N/66.6W	05/84	24	24	24	24	24	24	24	24					M	SW	G	O	
44013		M	3D	42.4N/70.7W	08/84	24	24	24	24	24	24	24	24					M	SW	G	O	
44014		M	3D	36.6N/74.8W	10/90	24	24	24	24	24	24	24	24					M	SW	G	O	
44025		M	3D	40.3N/73.2W	10/75	24	24	24	24	24	24	24	24					M	SW	G	O	
45001		M	3D	48.0N/87.8W	05/79	24	24	24	24	24	24	24	24					M	SW	G	O	45001-45008 retrieved during winter season
45002		M	3D	45.3N/86.4W	09/79	24	24	24	24	24	24	24	24					M	SW	G	O	
45003		M	3D	45.3N/82.8W	05/80	24	24	24	24	24	24	24	24					M	SW	G	O	
45004		M	3D	47.6N/86.6W	04/80	24	24	24	24	24	24	24	24					M	SW	G	O	
45005		M	3D	41.7N/82.4W	06/80	24	24	24	24	24	24	24	24					M	SW	G	O	

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WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS			
45006		M	6B	47.3N/89.9N	06/81	24	24	24		24	24	24	24					M	SW	G	O				
45007		M	3D	42.7N/87.0W	07/81	24	24	24		24	24	24	24					M	SW	G	O	Directional Waves			
45008		M	2.4D	44.3N/82.4W	09/81	24	24	24		24	24	24	24					M	SW	G	O				
46001		M	6B	56.3N/148.2W	10/72	24	24	24		24	24	24	24					M	SW	G	O				
46002		M	6B	42.5N/130.3W	07/75	24	24	24		24	24	24	24					M	SW	G	O				
46003		M	6B	51.9N/155.9W	07/76	24	24	24		24	24	24	24					M	SW	G	O				
46005		M	6B	46.1N/131.0W	09/76	24	24	24		24	24	24	24					M	SW	G	O				
46006		M	6B	40.9N/137.5W	04/77	24	24	24		24	24	24	24					M	SW	G	O				
46011		M	3D	34.9N/120.9W	10/80	24	24	24		24	24	24	24					M	SW	G	O				
46012		M	3D	37.4N/122.7W	11/80	24	24	24		24	24	24	24					M	SW	G	O				
46013		M	3D	38.2N/123.3W	04/81	24	24	24		24	24	24	24					M	SW	G	O				
46014		M	3D	39.2N/124.0W	04/81	24	24	24		24	24	24	24					M	SW	G	O				
46022		M	3D	40.8N/124.5W	01/82	24	24	24		24	24	24	24					M	SW	G	O				
46023		M	10D	34.7N/121.0W	04/82	24	24	24	24	24	24	24	24				24	24	M	SW	G	O	Ocean current		
46025		M	3D	33.8N/119.1W	04/82	24	24	24		24	24	24	24					24	24	M	SW	G	O	Directional Waves	
46026		M	3D	37.8N/122.8W	07/82	24	24	24	24	24	24	24	24						M	SW	G	O			
46027		M	3D	41.9N/124.4W	09/83	24	24	24		24	24	24	24						M	SW	G	O			
46028		M	3D	35.7N/121.9W	12/83	24	24	24		24	24	24	24						M	SW	G	O			
46029		M	3D	46.2N/124.2W	03/84	24	24	24		24	24	24	24						24	M	SW	G	O	Directional Waves	
46030		M	3D	40.4N/124.5W	10/84	24	24	24		24	24	24	24						24	M	SW	G	O	Directional Waves	
46035		M	12D	56.9N/177.8W	09/85	24	24	24		24	24	24	24						M	SW	G	O			
46041		M	3D	47.4N/124.5W	06/87	24	24	24		24	24	24	24						M	SW	G	O			
46042		M	3D	36.8N/122.4W	06/87	24	24	24		24	24	24	24						24	M	SW	G	O	Directional Waves	
46045		M	3D	33.8N/118.4W	01/91	24	24	24		24	24	24	24						M	SW	G	O			
46050		M	3D	44.6N/124.5W	11/91	24	24	24		24	24	24	24						M	SW	G	O			
46053		M	3D	34.2N/119.8W	08/93	24	24	24		24	24	24	24						M	SW	G	O			
46054		M	10D	34.3N/120.4W	08/93	24	24	24	24	24	24	24	24						24	M	SW	G	O	Ocean current	
46059		M	6B	38.0N/130.0W	10/94	24	24	24		24	24	24	24						M	SW	G	O			
46060		M	3D	60.6N/146.8W	05/95	24	24	24		24	24	24	24						M	SW	G	O			
46061		M	6B	60.2N/146.8W	05/95	24	24	24		24	24	24	24						M	SW	G	O			
46062		M	10D	35.1N/121.0W	06/97	24	24	24	24	24	24	24	24						24	24	M	SW	G	O	Ocean current
46063		M	6B	34.3N/120.7W	04/98	24	24	24		24	24	24	24						M	SW	G	O			
51001		M	6B	23.4N/162.3W	02/81	24	24	24		24	24	24	24						M	SW	G	O			

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51002	ABAN6	M	6B	17.2N/157.8W		09/84	24	24	24	24	24	24	24	24	24	24	24	M	SW	G	O	Directional Waves Visibility *C-MAN Station reporting C-Man Code (similar FM-12 SYNOP) Water level
51003		M	6B	19.1N/160.8W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	SW	G	O	
51004		M	6B	17.4N/152.5W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	SW	G	O	
51028		M	3D	0.0N/153.9W		10/97	24	24	24	24	24	24	24	24	24	24	24	M	SW	G	O	
		C		44.3N/75.9W		07/92	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		40.5N/73.8W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		C		59.4N/153.4W		08/99	48	48	48	48	48	48	48	48	48	48	48	M	O*	G	P	
		P		60.8N/146.9W		05/95	48	48	48	48	48	48	48	48	48	48	48	M	O*	G	O	
		P		28.9N/89.4W		02/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		41.4N/71.0W		07/85	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		C		43.3N/124.4W		08/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		29.1N/83.0W		03/95	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		36.9N/75.7W		01/85	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		C		34.6N/76.5W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		29.7N/85.4W		03/83	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		42.5N/79.4W		04/83	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		47.7N/124.5W		08/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		47.1N/90.7W		10/83	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		30.3N/88.1W		01/87	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	P	
		C		60.6N/152.1W		08/99	48	48	48	48	48	48	48	48	48	48	48	M	O*	G	O	
		C		24.6N/82.9W		12/92	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		35.2N/75.3W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		C		36.2N/75.8W		05/96	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		C		32.7N/79.9W		05/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		57.3N/133.6W		07/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		P		33.5N/77.6W		11/84	24	24	24	24	24	24	24	24	24	24	24	M	O*W	G	O	
		P		25.6N/80.1W		06/91	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		29.3N/90.0W		12/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		43.9N/76.4W		09/83	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	
		C		43.0N/70.6W		09/84	24	24	24	24	24	24	24	24	24	24	24	M	O*	G	O	

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KTNF1	C			29.8N/83.6W	05/95	24	24	24	24	24							M	O*	G	O
LKWF1	C			26.6N/80.0W	07/84	24	24	24	24	24							M	O*	G	O
LONF1	P			24.8N/80.9W	11/92	24	24	24	24	24							M	O*	G	O
LPOI1	P			48.1N/116.5W	06/93	24	24	24	24	24							M	O*	G	O
MDRM1	C			44.0N/68.1W	09/84	24	24	24	24	24							M	O*	G	O
MISM1	C			43.8N/68.9W	10/84	24	24	24	24	24							M	O*	G	O
MLRF1	P			25.0N/80.4W	12/87	24	24	24	24	24							M	O*	G	O
MRKA2	C			61.1N/146.7W	09/97	48	48	48	48	48							M	O*	G	O
NWPO3	C			44.6N/124.1W	01/85	24	24	24	24	24							M	O*	G	O
PILA2	C			59.7N/149.5W	08/99	48	48	48	48	48							M	O*	G	P
PILM4	C			48.2N/88.4W	05/84	24	24	24	24	24							M	O*	G	O
POTA2	C			61.1N/146.7W	05/95	48	48	48	48	48							M	O*	G	O
PTAC1	C			39.0N/123.7W	10/84	24	24	24	24	24							M	O*	G	O
PTAT2	C			27.8N/97.1W	03/84	24	24	24	24	24							M	O*	G	O
PTGC1	C			34.6N/120.6W	04/84	24	24	24	24	24							M	O*	G	O
ROAM4	C			47.9N/89.3W	10/83	24	24	24	24	24							M	O*	G	O
SANF1	C			24.5N/81.9W	01/91	24	24	24	24	24							M	O*	G	O
SAUF1	C			29.9N/81.3W	09/86	24	24	24	24	24							M	O*	G	O
SBIO1	C			41.6N/82.8W	09/83	24	24	24	24	24							M	O*	G	O
SGNW3	C			43.7N/87.7W	10/83	24	24	24	24	24							M	O*	G	O
SISW1	C			48.3N/122.8W	01/84	24	24	24	24	24							M	O*	G	O
SMKF1	P			24.6N/81.1W	02/88	24	24	24	24	24							M	O*	G	O
SPGF1	C			26.7N/79.0W	10/85	24	24	24	24	24							M	O*	G	O
SRST2	C			29.7N/94.1W	02/84	24	24	24	24	24							M	O*	G	O
STD4M	C			47.2N/87.2W	07/84	24	24	24	24	24							M	O*	G	O
SUPN6	C			44.5N/75.8W	08/92	24	24	24	24	24							M	O*	G	O
THIN6	C			44.3N/76.0W	08/92	24			24								M	O*	G	O
TPLM2	P			38.9N/76.4W	10/85	24	24	24	24	24							M	O*	G	O
TTIW1	C			48.4N/124.7W	08/84	24	24	24	24	24							M	O*	G	O
VENF1	C			27.1N/82.4W	05/86	24	24	24	24	24							M	O*	G	O
WPOW1	C			47.7N/122.4W	01/84	24	24	24	24	24							M	O*	G	O

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15001		M	0	9.94S /9.96W	09/97	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
15002		M	0	0.00S/9.87W	09/97	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
15003		M	0	5.11S/9.95W	01/99	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
15004		M	0	0.00S/23.00W	03/99	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
13009		M	0	7.95N/38.01W	01/98	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
13008		M	0	14.99/38.01W	01/98	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
41026		M	0	11.50N/38.01W	02/99	3			3	3			3	1,10	S,1,4		1	A	D	G	O	Ra,Rad
43301		M	0	8.05N/94.9W	08/94	3			3	3			3	1,10				A	D	G	O	
32303		M	0	5.03N/94.95W	04/94	3			3	3			3	1,10				A	D	G	O	
32304		M	0	5.01S/95.06W	04/94	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra
32305		M	0	8.03S/95.09W	08/94	3			3	3			3	1,10				A	D	G	O	
32315		M	0	4.95N/109.99W	11/85	3			3	3			3	1,10				A	D	G	O	
32316		M	0	2.07N/110.12W	12/84	3			3	3			3	1,10				A	D	G	O	
32317		M	0	2.01S/109.98W	11/84	3			3	3			3	1,10				A	D	G	O	
32318		M	0	5.00S/109.99W	06/85	3			3	3			3	1,10				A	D	G	O	
32319		M	0	8.06S/109.93W	11/85	3			3	3			3	1,10				A	D	G	O	
32320		M	0	1.98N/95.00W	11/92	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra
32321		M	0	0.00N/95.00W	11/92	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad
32322		M	0	1.99S/95.01W	11/92	3			3	3			3	1,10				A	D	G	O	
32323		M	0	0.03N/109.94W	02/95	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad,Cu
31001		M	0	0.04N/34.97W	01/98	3			3	3			3	1,10	S,1,4			A	D	G	O	Ra,Rad
31002		M	0	3.98N/38.03W	02/99	3			3	3			3	1,10	S,1,4			A	D	G	O	Ra,Rad
51006		M	0	8.99N/140.28W	06/88	3			3	3			3	1,10				A	D	G	O	
51007		M	0	4.93N/139.88W	05/88	3			3	3			3	1,10				A	D	G	O	
51008		M	0	2.00N/140.0W	10/86	3			3	3			3	1,10	S,1			A	D	G	O	
51009		M	0	2.01S/139.94W	06/86	3			3	3			3	1,10				A	D	G	O	
51010		M	0	0.03S/170.02W	05/88	3			3	3			3	1,10				A	D	G	O	
51011		M	0	0.19S/124.36W	05/87	3			3	3			3	1,10				A	D	G	F	
51014		M	0	5.01S/139.90W	10/90	3			3	3			3	1,10				A	D	G	O	
51015		M	0	5.10N/124.88W	12/91	3			3	3			3	1,10				A	D	G	O	

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51016		M	0	1.97N/125.07W		12/91	3			3	3			3	1,10			A	D	G	O	
51017		M	0	2.03S/124.90W		11/91	3			3	3			3	1,10			A	D	G	O	
51018		M	0	5.02S/124.94W		11/91	3			3	3			3	1,10			A	D	G	O	
51019		M	0	4.99S/154.97W		07/91	3			3	3			3	1,10			A	D	G	O	
51020		M	0	4.99N/154.94W		07/91	3			3	3			3	1,10			A	D	G	O	
51021		M	0	1.99N/154.95W		07/91	3			3	3			3	1,10			A	D	G	O	
51022		M	0	2.00S/154.98W		07/91	3			3	3			3	1,10			A	D	G	F	
51023		M	0	0.04N/155.02W		07/91	3			3	3			3	1,10			A	D	G	O	
51301		M	0	7.97N/155.00W		08/92	3			3	3			3	1,10			A	D	G	O	
51302		M	0	8.27S/155.01W		03/92	3			3	3			3	1,10			A	D	G	O	
51303		M	0	4.98N/169.96W		03/92	3			3	3			3	1,10			A	D	G	O	
51304		M	0	4.99S/169.99W		03/92	3			3	3			3	1,10			A	D	G	O	
51305		M	0	1.99N/170.02W		03/92	3			3	3			3	1,10			A	D	G	O	
51306		M	0	2.17S/170.00W		03/92	3			3	3			3	1,10			A	D	G	O	
51307		M	0	8.03N/125.01W		10/92	3			3	3			3	1,10			A	D	G	O	
51308		M	0	7.96N/125.00W		09/92	3			3	3			3	1,10			A	D	G	O	
51309		M	0	8.01N/170.01W		08/92	3			3	3			3	1,10			A	D	G	O	
51310		M	0	7.99S/170.0W		08/92	3			3	3			3	1,10			A	D	G	O	
51311		M	0	0.05N/139.88W		03/95	3			3	3			3	1,10	S,1		1	A	D	G	O
52001		M	0	2.00N/164.97E		07/85	3			3	3			3	1,10	S,1		1	A	D	G	O
52002		M	0	1.91S/164.41E		07/85	3			3	3			3	1,10	S,1		1	A	D	G	O
52003		M	0	5.02N/165.01E		02/88	3			3	3			3	1,10	S,1		1	A	D	G	O
52004		M	0	5.00S/165.20E		01/87	3			3	3			3	1,10	S,1		1	A	D	G	O
52006		M	0	8.01N/165.07E		07/89	3			3	3			3	1,10	S,1		1	A	D	G	O
52007		M	0	8.03S/164.80E		08/91	3			3	3			3	1,10	S,1		1	A	D	G	O
52008		M	0	4.99N/156.06E		08/91	3			3	3			3	1,10			A	D	G	O	
52010		M	0	5.00S/155.99E		08/91	3			3	3			3	1,10			A	D	G	O	
52011		M	0	2.00N/156.02E		08/91	3			3	3			3	1,10			A	D	G	O	
52012		M	0	2.00S/156.02E		08/91	3			3	3			3	1,10			A	D	G	O	

Last update: 2002/01/31

USA

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED										CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS			
WMO#	OTHER	Type	Hull	POSITION	DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means				
52301	M	M	0	2.00N/146.99W	02/90	3			3	3			3	1,10			A	D	G	O		
52302		M	0	4.98N/147.01E	02/90	3			3	3			3	1,10			A	D	G	O		
52307		M	0	2.43N/137.43E	04/92	3			3	3			3	1,10			A	D	G	O		
52309		M	0	4.99N/179.92W	03/93	3			3	3			3	1,10			A	D	G	O		
52310		M	0	2.02N/179.81W	03/93	3			3	3			3	1,10			A	D	G	O		
52311		M	0	0.01N/179.90W	03/93	3			3	3			3	1,10			A	D	G	O		
52312		M	0	1.99S/179.88W	03/93	3			3	3			3	1,10			A	D	G	O		
52313		M	0	4.97S/179.89W	03/93	3			3	3			3	1,10			A	D	G	O		
52315		M	0	7.99N/179.87W	11/93	3			3	3			3	1,10			A	D	G	O		
52316		M	0	7.98S/179.82W	11/93	3			3	3			3	1,10			A	D	G	O		
52317		M	0	0.01S/156.16E	07/95	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra.Rad
52318		M	0	0.00S/146.97E	04/94	3			3	3			3	1,10			A	D	G	F		
52319		M	0	8.09N/156.01E	12/94	3			3	3			3	1,10			A	D	G	F		
52321		M	0	0.01N/165.01E	05/95	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad,Cu

All data available via WWW. Salinity data available WWW only. Rain=RA(available WWW only). Radiation=Rad (available WWW only). Currents=Cu (delayed mode only). Internally recorded data are available in delayed mode either 24 (hourly) or 144 (10 min.) times/day. Hull type is 2.3m toroid

INFORMATION ON NON-DRIFTING ODAS

Country: Vietnam * Date: May 1994

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED												COMMENTS				
WMO#	OTHER	Type	Hull	POSITION		DATE	Air Temp.	Air Press.	Press. Tend.	Humidity	Wind (DD FF)	Wave (PP HH)	Wave Spectra	SST	S/Surf. Temp.	Salinity	Current	Others	TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS
48839	48834	C		2058 N	10746 E	1959	4	4	4	4	4	3			4	4		O	O	L	O	
	48836	C		2008 N	10743 E	1958	8	8	8	8	8	3						O	O	L	O	
	48828	C		2101 N	10722 E	1961	4	4	4	4	4	3						O	O	L	O	
	48/81	C		2040 N	10649 E	1954*	4	4	4	4	4	3						O	O	L	O	
	48/89	C		1848 N	10546 E	1961	4	4	4	4	4	3						O	O	L	O	
	48889	C		1710 N	10722 E	1974	4	4	4	4	4	3						O	O	L	O	
	48855	C		1032 N	10856 E	1979	4	4	4	4	4	3						O	O	L	O	
	48870	C		1607 N	10813 E	1977*	8	8	8	8	8	3						O	O	G	O	
	48903	C		1345 N	10913 E	1976	8	8	8	8	8	3						O	O	G	O	
	48917	C		1020 N	10704 E	1979*	4	4	4	4	4	3						O	O	L	O	
	48918	C		1013 N	10358 E	1976*	8	8	8	8	8	3						O	O	G	O	
	48920	C		0841 N	10636 E	1979*	8	8	8	8	8	3						O	O	G	O	
	48892	C		0838 N	11155 E	1977*	8	8	8	8	8	3						O	O	G	O	
	48860	C		1125 N	11420 E	1977	8	8	8	8	8	3						O	O	G	O	
		C		1633 N	11137 E	1977*																

* No report received since 1994

Transmission by means of UHF radio in FM12
SYNOP

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