

**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

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)

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.

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 Pais: Fecha:

IDENTIFICADOR	ODAS	LOCALIZACION	PARAMETROS MEDIDOS	COMENTARIOS
OMMI	Casco	POSICION FECHA	Temp. aire Press. aire Tend. presion Humedad Viento (D, F) Olas (P, H) Espectro olas SST Temp. superf. mar Salinidad Corrientes Varios (espec.) Medios Trans. Forma codigo Disponib. de datos Condiciones	
VARIOS (espec.)	Typo			

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 boya en forma de disco de xx metros de diámetro
- xxS Para una boya en forma de pértiga de xx metros de altitud sobre el nivel del mar
- xxB Para una boya en forma de buque de xx metros de longitud
- O Para cualquier otro tipo de boya (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 día 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 transmision (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

Utilicese mas de una letra cuando sea necesario.

Comentarios

Anótese cualquier comentario pertinente en lenguaje sencillo.

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 :

М	для заякоренных буев для сбора данных
Р	для платформ
С	для береговой или островной станции
О	для любой другой станции (в этом случае уточняется в колонке «ЗАМЕЧАНИЯ»)

В колонке «Корпус» :

- если «Тип» обозначен как М, вносится :

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

- во всех других случаях указывается О 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 :

- Н 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 ВАВЕОБ (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		C		54°47'S 68°20'W	May 13,1991	240	240			24							240	M	O	M	O	Sea level GOES
MAR DEL		C		38°03'S 57°30'W	Feb 4,1992	240	240			24							240	M	O	M	O	Sea level GOES
PLATA		C		63°18'S 56°55'W	Feb 28,1993	240	240			24				240			240	M	O	M	O	Sea level GOES
ESPERANZA																						

* No report received since 1993

INFORMATION ON NON-DRIFTING ODAS

Country: Australia

Date: 1 June 1999

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					
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							D	G	O	North Rankin oil platform
55025		M	0	35.18°S 138.30°E	Aug 28,1997	X	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						D	G	O	

INFORMATION ON NON-DRIFTING ODAS

Country: Canada

Date: 1 January 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
44137		M	06B	41 50'N 060 56'W	Sep-88	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					M	S	G	O	
44139		M	06B	44 11'N 057 33'W	Sep-88	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					M	S	G	O	
44141		M	06B	42 07'N 056 11'W	Apr-91	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					M	S	G	O	
44251		M	06B	46 26'N 053 23'W	Mar-98	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					M	S	G	O	
45132		M	03D	42 28'N 081 13'W	Apr-86	24	24	24		24	24	24	24					M	S	G	O	Seasonal
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					M	S	G	O	Seasonal
45137		M	03D	45 33'N 081 01'W	Jun-89	24	24	24		24	24	24	24					M	S	G	O	Seasonal
45138		M	03D	49 33'N 065 46'W	Apr-91	24	24	24		24	24	24	24					M	S	G	O	Seasonal
45139		M	12D	43 26'N 079 23'W	Jul-91	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	Toga Hull/Random Reporting/Seasonal
45141		M	03D	61 07'N 115 11'W	Jul-92	24	24	24		24	24	24	24					M	S	G	O	Seasonal
45142		M	03D	42 44'N 079 17'W	May-94	24	24	24		24	24	24	24					M	S	G	O	Seasonal
45143		M	03D	44 55'N 080 38'W	Jun-96	24	24	24		24	24	24	24					M	S	G	O	Seasonal
45150		M	*	61 55'N 113 45'W	Jul-98	*	*	*		*			*					A	S	G	O	Hexoid Hull/Random Reprting/Seasonal
46004		M	06B	50 58'N 135 48'W	Feb-85	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					M	S	G	O	
46131		M	03D	49 54'N 124 59'W	Oct-92	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					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	Optical Sensors/Ocean Colour
46145		M	03D	54 23'N 132 26'W	Apr-91	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	Optical Sensors/Ocean Colour
46147		M	03D	51 49'N 131 12'W	May-93	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					M	S	G	O	
46183		M	03D	53 37'N 131 06'W	Apr-91	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					M	S	G	O	
46185		M	03D	52 24'N 129 47'W	Sep-90	24	24	24		24	24	24	24					M	S	G	O	

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			
46204		M	03D	51 22'N 128 45'W	Jul-89	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					M	S	G	O			
46206		M	03D	48 50'N 126 00'W	Nov-88	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					M	S	G	O			
46208		M	03D	52 30'N 132 42'W	Jul-89	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											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
	B	M	10D	38° 00'N 123°28'E	SEP 7 1991	4	4			4	4			4				HF	S	M	O	Buoy No.15
	F	M	10D	29°31'05"N 124°00'05"E	Jul 14 1991	4	4			4	4			4				HF	S	M	O	Buoy No.17
	I	M	03D	20°30'N 113° 54'E	Feb 29 1992	4	4			4	4			4				A	S	M	O	Buoy No.1
	L	M	10D	18°03'12"N 116°30'30"E	Jun 1 1991	4	4			4	4			4				HF	S	M	O	Buoy No.20

* No report received since 1992

INFORMATION ON NON-DRIFTING ODAS

Country: Ecuador

Date: 2 March 1999

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	
SAN LORENZO		C		01°17.7'N 79°50.5'W	Jan 01,1975	7	7		7	7			3					O		L	O	Transmitted by e-mail Transmitted by fax	
ESMERALDAS		C		00°59.7'N 79°38.7'W	Jan 01,1975	7	7		7	7	7		3		1			O		L	O		
MANTA		C		00°56.3'S 80°44.2'W	Jan 01,1975	7	7		7	7	7		3		1			O		L	O		
LA LIBERTAD		C		02°12'S 80°54.2'W	May 7, 1988	7	7		7	7	7		3		1			O		L	O		
GUAYA- QUIL		C		02°16.1'S 79°54.3'W	Oct 3,1974	7	7		7	7													
PUNA		C		02°44.2'S 79°54.5'W	Jan 01,1977	7	7		7	7			3					O		L	O		
PTO. BOLIVAR		C		03°15.4'S 80°00'W	Jan 01,1977	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				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				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				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				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	Orregrund	C		60.16 N 26.27 E	1991/04/04	8				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				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				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																				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					
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						48	48	48					HA	D	GM	O	Oceantilles 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	Oceantilles programme			
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	Oceantilles 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	Oceantilles programme			
62001	ODAS Gascogne	M	4S	45°14'N 05°00'W	Jul 1998	24	24	24	24	24	24		24					DP MG	M	S	GC	O	Co-operative project between Meteo-France and the UK Met. Office			
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					DP MG	M	S	GC	O	Co-operative project between Meteo-France and the UK Met. Office			
13010	SOUL	M	0	0°00'N 0°00'E	Feb 1998	24				24			24	24				A	D	GC	F	Toroidal ATLAS buoy				
15001	GAVOTTE	M	0	10°00'S 10°00'W	Sep 1997	24				24			24	24				A	D	GC	O	Pirata Project				
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				
																							Pirata Project			

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	
	BLUES	M	0	2°00'N 10°00'W	Sep 1999	24				24			24	24				A	D	GC	P	Toroidal ATLAS buoy Pirata Project	

DP - Dew Point
MG - Max Gust
D - FM18 BUOY

Country: Germany (Federal Maritime Agency, Hamburg & Rostock (BSH))

INFORMATION ON NON-DRIFTING ODAS

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
	DHI 1			54° 30'N									24	24			se					O ₂ , 24/1 lighthouse
	SXVF 41	P	0	10° 16'E	1971	24							5	24	2		e	M	O	C	O	radioactivity 24
	DHI 2			54° 36'N									24		24	24						O ₂ , 24/2 lighthouse
	SXVF 42	O	10 D	11° 09'E	1984	24	24			24			4	24	2	2	"	M	O	C	O	radioactivity 24/2
	DHI 3			55° 00'N									24		24	24						O ₂ , 24/2 stabilized buoy
	SXVF 43	M	04 D	06° 20' E	1984	24	24			24			6	24	2	2	"	M	O	C	O	radioactivity 24
	DHI 4			54° 41'N																		O ₂ , 24/2, stabilized buoy
	SXVF 44			06° 45'E		24	24			24			24	24	24	24	"	M	O	C	P	water level 24
	EESA	M	06D	54° 10'N						24			24		24	24						O ₂ , 24/2, unmanned lightship
	SXVF 45	O	26 B	07° 27'E	1989								5	24	2	2	"	M	O	C	O	Water level 24
	DHI 6			54° 00'N									24		24	24						O ₂ , 24/2, unmanned lightship
	SXVF 46	O	26 B	08° 06,5'E	1988								3	24	2	2	"	M	O	C	O	radioactivity 24
	DHI 7			54° 10'N									24		24	24						O ₂ , 24/2, unmanned lightship
	SXVF 47	O	26 B	06° 20,8'E	1989								5	24	2	2	"	M	O	C	O	radioactivity 24
	BSH IOW			54°41,9' N										24	24		24	M/	T			Mast DARSS Sill
	DS FMHA1	M	10S	12° 41,9' E	15/10/93	24	24		24	24			6	4		2	M	T	C	O	M/GSM =METEOSAT/GSM	
	BSH IOW			54° 4,6' N									24	24		24	M/	T				Discus Buoy ODER-BANK
	OB FMHA3	M	10D	14° 9,6' E	30/05/96	24	24		24	24			2	2		2	M	T	C	O	M/GSM =METEOSAT/GSM	

INFORMATION ON NON-DRIFTING ODAS

Country: Germany (Institute for Baltic Sea Research)

Date: August 1999

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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
		C		53° 34' N 006° 45' E	01.08.89												8	O	O	C	O	Gamm-Spectrum Telephone MODEM Transmission
		C		54° 45' N 008° 18' E	01.08.89												8	O	O	C	O	Radioactivity
		C		54° 09' N 11° 44' E	01.07.90												24	O	O	C	O	Radioactivity
		M	0	54° 59,8' N	1905							8						A	M	O	O	Wave rider Sphere,

INFORMATION ON NON-DRIFTING ODAS Country: Germany (Deutscher Wetterdienst, Niederlassung 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		O ⁷⁾		54° 00' N 08° 07' E	1988	24	24	8	24	24				24			2)	M	O ⁶⁾	G	O	1) Bulletin Number 2) Relative Humidity
10007		O ⁷⁾		54°10' N 07° 27' E	1986	24	24	8	24	24				24			3)	M	O ⁶⁾	G	O	
10004		O ⁷⁾		54° 10' N	1988	24	24	8	24	24				24			2)	M	O ⁶⁾	G	O	

10044		O ⁸⁾	54° 30' N 10° 16' E	1970	24	24	8	24	24						24			2) 3) 4) 5)	M	O ⁶⁾	G	O
10124		O ⁸⁾	53° 52' N 08° 08' E	1970	24	24	8	24	24						24			2) 3) 4) 5)	M	O ⁶⁾	G	O

INFORMATION ON NON-DRIFTING ODAS
Country: Germany (Institut für Meereskunde Warnemünde) Date: August 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 AVAIL.	STATUS	COMMENTS					
	IFM Wa	M	0	54° 41,8' N 12° 42,4' E	Jun-77											4				L	O	Sub-surface mooring					
		M	10S	54° 41,8' N 12° 42,4' E	Sep-91					X			X		X					R	EP	Mast mooring					

INFORMATION ON NON-DRIFTING ODAS
Country: Germany (GKSS-Forschungszentrum, Geesthacht) Date: August 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 AVAIL.	STATUS	COMMENTS	
	META-2			km 669	1.91								R	R	R	1)							Moored measuring platform (pontoon) "META-2"
	META-1			River Elbe km 698	1.91	X				X			X	X	X								1) Turbidity; seston concentration

INFORMATION ON NON-DRIFTING ODAS
Country: Germany (Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven)

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		
	AW1 213/2	M	0	73° 38' S 26° 07' W	06.02.91										X	X	X				C	O	sub-surface moorings
	AW1 400	M	0	57° 38' S 04° 03' E	21.03.91										X	X	X				C	O	sub-surface moorings

INFORMATION ON NON-DRIFTING ODAS

Country: Greece *

Date: 4 May 1989

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		
16732		C	0	25°32E 37°06N	1955	8	8	8	8	8				3				O	O	G	O	Island Station (NAXOS)		
16717		C	0	23°38E 37°56N	1956	6	6	6	6	6				3				O	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		1	U	O	O	A- UNDER MAINTENANCE DATA WOULD BE CIRCULATED OVER GTS BY END OF 1999.						
	SW 2	M	02S	N 18.593 E 71.031	29-Jan-98	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		1	U	O	A							
	DS1	M	03D	N 15.492 E 69.281	01-Feb-98	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		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		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		1	U	O	O							
	DS3	M	03D	N 13.034 E 86.934	19-Jul-99	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		1	U	O	O							

INFORMATION ON NON-DRIFTING ODAS

Country: Iran *

Date: June 1998

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	
	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																					
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	CODE FORM	DATA AVAILABILITY	STATUS	COMMENTS					
		M		32 30 N 34 50 E	Aug-89	24				24	8		24							L	O	buoy DATAWELL near coastal station Hadera					
		M		31 50 N 34 38 E	May-92	24	24	8	24	24	8	8								L	O	buoy DATAWELL near coastal station Ashdod					
		M		34 56 N 32 50 E	Apr-94	24	24	8	24	24	8	8								L	O	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	M	10D	37°55' N 134°33' E	10 Nov 1976	8	8	8	8	8	8		8	2			8	M	S B	G	O	Solar radiation		
21004	ODAS-J6	M	10D	29°00' N 135°00' E	09 Jun 1982	8	8	8	8	8	8		8	2			8	M	S B	G	O	Solar radiation		
22001	ODAS-J8	M	10D	28°10' N 126°20' E	05 Sep 1974	8	8	8	8	8	8		8	2			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	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	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	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	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	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	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	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	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														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
not yet assigned	not yet assigned	M	0	29° 10' N 48° 10' E	July/1989					14	8							V	O	M	P	Hull: Spherical 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																	
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	
		M	D			6 R	6 R	6 R	6 R	6 R	6 R	6 R	6 R	6 R	6 R	6 R	6 R		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	P		5.5N 105.0E	1.10.85	2	2		2	2	2							0	0	G	O							
	Duyong	P		5.0N 105.2E	1.6.89	2	2		2	2	2		2					0	0	G	O							
	E-11	P		4.3N 112.6E	5.5.82	2	2			2	2							0	0	G	O							
	M3PQ	P		5.2N 111.8E	23.9.95	2	2			2	2							0	0	R	O							
	Baronia	P		4.7N 113.7E	N/A	2	2			2	2							0	0	R	O							
	South Furious	P		6.7N 116.2E	N/A	2	2			2	2							0	0	R	O							

* No report received for 1998 and 1999

TransMeans= all observed variables are received by fax from platforms
Code Form= data are received in local format

INFORMATION ON NON-DRIFTING ODAS

Country: Mauritius *

Date: May 1998

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
		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														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							
	IXTOC-A	P		19°24'.4N 092°12'.7W		X	X	X	X	X	X							O	S	O		COMPRESSED FORMAT		
	CAYO	P		20°09'.8N 091°57'.8W		X	X	X	X	X	X							O	S	O				
	ARCAS	P		19°01'.8N 092°01.1W		X	X	X	X	X	X							O	S	O				
	ECO-1	P																						

* No report received since 1996

INFORMATION ON NON-DRIFTING ODAS

Country: The Netherlands * Date: 1 June 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							
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	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	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							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													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						
23051	Mina Qaboos	M	xxD	23.7N 58,E	30348	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. Transmission is by means of UHF radio. Mina Qaboos buoy is CODE FORM: Fm 18-IX Extn.	
23052	Sur	M	xxD	22-35.33N 59-32.6E	Feb-83	8			8	8	8		8					O	S	G M	A		
23053	Mina Raysut	M	xxD	54-01.45E 16-56.10N	Apr-92						8		8										

* 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									O	O	M	MONTHLY SYNOP BY MAIL		
	PAITA	C		05°05' S 81°06' W	Jun-78	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									O	O	M	MONTHLY SYNOP BY MAIL		
	SALAVE-RRY	C		08°13' S 68°58' W	Jun-78	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	CHIM-BOTE	C		09°04' S 68°36' W	Jun-78	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	CHICUITO	C		12°03' S 77°09' W	Apr-77	20	8	8	20	20									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	PISCO	C		13°42' S W	Jun-80	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	SAN JUAN	C		15°21' S 75°09' W	Oct-78	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	ATICO	C		16°13' S 73°37' W	Jul-80	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	MOLLEN-DO	C		16°59' S 72°06' W	Jul-78	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	ILO	C		17°37' S 77°21' W	Jul-78	4	4	4	4	4									O	O	M	SYNOPSIS MESSAGE BY MAIL		
	MALABRIGO	C		07°42' S 79°26' W	Jul-95	4	4	4	4	4									O	O	M	SYNOPSIS 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										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
	CSA91D	M	0	41°1.1' N 009°87.7' W	Jul-90						8							H	M C L O	figueira da Fuz Wave directional buoy 2.5 m-ø	Wave
	CSA83/6D	M	0	37°56.1' N 008° 53.6' W	May-89						8							H	M C L O	Sines/DW6 directional buoy 2.5 m-ø	Wave
	CSA83/1D	M	0	37°55.3' N 008°55.7' W	May-88						8							H	M C L O	Sines/DW1 directional buoy 2.5 m-ø	Wave
	CSA83/5	M	0	37°54.2' N 008°48.3' W	Feb-89						8							H	M C L O	Sines/DW7 Waverider m-ø	0.7 Wave
	CSA82	M	0	36°54.3' N 007°53.9' W	Sep-86						8							H	M C L O	Faro directional buoy 2.5 m-ø	Wave
	CSA94	M	0	32°37.1' N 016°56.5' W	Aug-89						8							H	M C L O R	Mad/Funchal Waverider m-ø	0.7
	CSA80	M	0	22°08.0' N 113°36.0' E	May-84						8							H	M C L O R	Macau 0.7 m-ø	Waverider
	CSA97	M	0	37°43.5' N 025°43.5' W	Mar-89						8							H	M C L O R	Acores/P.del Waverider m-ø	0.7
	CSA96	M	0	36°55.5' N 025°10.5' W	Apr-90						8							H	M C L O R	Acores/St. Maria Waverider m-ø	0.7
	CSA92	M	0	40°39.3' N 008°48.7' W	Apr-91						8							H	M C L O R	Aveiro 0.7 m-ø	Waverider

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	
	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 0.7
	CSA98	M	0	39°22.3' N 031°09.5' W	Aug-88							8						H		M C L	O R		

* No report received since 1992

INFORMATION ON NON-DRIFTING ODAS

Country: South Africa *

Date: June 1998

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
		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											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
02499		P		N5909 E1908	04-06-70	24			24	24	24	24	24	24/1		24/10x		O	O	R	O	Telecommunication
02685		P		N5606 E1641	06-10-78						24	24						O	O	R	O	Telecommunication
02970		P		N5713 E1150	08-02-88					24	24	24	24	24/2		24/10x		O	O	R	O	Telecommunication
02517		P		N5736 E1138	12-07-78	24				24	24	24	24	24/4		24/5x		O	O	R	O	Sea level Telecommunication
02501		P		N5833 E1102	01-02-81	24				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																				
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				
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)				
48457		C		13° 22' 38 N 100° 35' 58 E	01-Nov-93	5	5	5	5	5	5							V	O	G	O	0 - for SYNOP (FM 12- VII)				
48463		C		15° 04' 37 N 100° 52' 33 E	01-Nov-93	5	5	5	5	5	5							V	O	G	O	0 - for SYNOP (FM 12- VII)				
48553		C		099° 51.671' E 08° 03.745' N	01-Nov-93	5	5	5	5	5	5							V	O		O	0 - for SYNOP (FM 12- VII)				
48563		C		098° 54.395' E 13° 42' 25.09" N	01-Nov-93	5	5	5	5	5	5							V	O	G	O	0 - for SYNOP (FM 12- VII)				
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*			

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														TRANS Means	CODE FORM	DATA AVAILABILITY	STATUS	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								
62103	LV Channel	O		49°55'N 02°53'W	June 1989	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					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					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					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							DP	TS	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	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	MG	GC	O	Visibility availability from May 1995		

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 -
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	More-cambe 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									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					DP	V	S	G	O	Operational 2.5m toroidal hull Eskmeals buoy was relocated in Luce Bay on 12 November 1997	The
62110	Luce Bay	M	D	54°45'N 04°46'W	Nov 1997	24	24	24	24	24	24		24					DP	V	S	CG	O	Operational 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					DP	V	S	CG	O	Operational 2.5 m toroidal hull	
62163	ODAS Brittany	M	4S	47°32'N 08°30'W	May 1995	24	24	24	24	24	24		24					DP MG	M	S	CG	O	Operational from May 1995. A co-operative project between Meteo France & the UK Met Office	

IDENTIFIER		ODAS		LOCATION		VARIABLES MEASURED														COMMENTS	STATUS		
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	
62029	ODAS K1	M	4S	48°43'N 12°26'W	Dec 1991	24	24	24	24	24	24		24					DP MG	M	S	CG	O	Operational
62081	ODAS K2	M	4S	51°00'N 13°20'W	Dec 1991	24	24	24	24	24	24		24					DP MG	M	S	CG	O	Operational 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					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					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					DP MG	M	S	CG	O	Operational
64046	K7			60°30'N 5°00'W	May 1999	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					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					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					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					DP MG	M	S	CG	O	The St. Gowan bouy was relocated to the Turbot Bank in May 1998

Variables Measured represent the number of observations per day.

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					M	SW	G	O							
41002		M	6B	32.3N/75.2W	12/73	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	Directional Waves						
41008		M	3D	31.4N/80.9W	05/97	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					M	SW	G	O							
41010		M	6B	28.9N/78.5W	11/88	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	Directional Waves						
42002		M	10D	25.9N/93.6W	06/73	24	24	24	24	24	24	24	24				24	M	SW	G	O	Directional Waves						
42003		M	10D	25.9N/85.9W	11/76	24	24	24		24	24	24	24				24	M	SW	G	O	Directional Waves						
42007		M	3D	30.1N/88.8W	01/81	24	24	24	24	24	24	24	24				24	M	SW	G	O	Directional Waves						
42019		M	3D	27.9N/95.4W	05/90	24	24	24		24	24	24	24				24	M	SW	G	O	Directional Waves						
42020		M	3D	26.9N/96.7W	05/90	24	24	24		24	24	24	24				24	M	SW	G	O	Directional Waves						
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				24	M	SW	G	O	Directional Waves						
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					M	SW	G	O							
44005		M	6B	42.9N/68.9W	12/78	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					M	SW	G	O							
44008		M	3D	40.5N/69.4W	08/82	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	Directional Waves						
44011		M	6B	41.1N/66.6W	05/84	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					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	Directional Waves						
44025		M	3D	40.3N/73.2W	10/75	24	24	24	24	24	24	24	24				24	M	SW	G	O	Directional Waves						
45001		M	3D	48.0N/87.8W	05/79	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					M	SW	G	O							
45003		M	3D	45.3N/82.8W	05/80	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					M	SW	G	O							
45005		M	3D	41.7N/82.4W	06/80	24	24	24		24	24	24	24					M	SW	G	O							

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							
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				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	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	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								

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							
51002		M	6B	17.2N/157.8W	09/84	24	24	24		24	24	24	24					M	SW	G	O								
51003		M	6B	19.1N/160.8W	11/84	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					M	SW	G	O								
51028		M	3D	0.0N/153.9W	10/97	24	24	24		24	24	24	24				24	M	SW	G	O	Directional Waves							
	ABAN6	C		44.3N/75.9W	07/92	24	24	24	24	24		24					24	M	O*	G	O	Visibility							
	ALSN6	P		40.5N/73.8W	11/84	24	24	24		24	24							M	O*W	G	O	*C-MAN Station reporting							
	AUGA2	C		59.4N/153.4W	08/99	48	48	48	48	48								M	O*	G	P	C-Man Code (similar FM-12 SYNOP)							
	BLIA2	P		60.8N/146.9W	05/95	48	48	48		48								M	O*	G	O								
	BURL1	P		28.9N/89.4W	02/84	24	24	24	24	24								M	O*	G	O								
	BUZM3	P		41.4N/71.0W	07/85	24	24	24	24	24	24	24	24					M	O*W	G	O								
	CARO3	C		43.3N/124.4W	08/84	24	24	24	24	24								M	O*	G	O								
	CDRF1	C		29.1N/83.0W	03/95	24	24	24		24								M	O*	G	O								
	CHLV2	P		36.9N/75.7W	01/85	24	24	24		24	24	24						M	O*W	G	O								
	CLKN7	C		34.6N/76.5W	11/84	24	24	24		24								M	O*	G	O								
	CSBF1	C		29.7N/85.4W	03/83	24	24	24	24	24								M	O*	G	O								
	DBLN6	C		42.5N/79.4W	04/83	24	24	24		24								M	O*	G	O								
	DESW1	C		47.7N/124.5W	08/84	24	24	24		24								M	O*	G	O								
	DISW3	C		47.1N/90.7W	10/83	24	24	24	24	24								M	O*	G	O								
	DPIA1	P		30.3N/88.1W	01/87	24	24	24	24	24		24				24		M	O*	G	P	Water level							
	DRFA2	C		60.6N/152.1W	08/99	48	48	48	48	48								M	O*	G	O								
	DRYF1	C		24.6N/82.9W	12/92	24	24	24		24		24						M	O*	G	O								
	DSLN7	P		35.2N/75.3W	11/84	24	24	24	24	24	24	24						M	O*W	G	O								
	DUCN7	C		36.2N/75.8W	05/96	24	24	24		24	24	24						M	O*W	G	O								
	FBIS1	C		32.7N/79.9W	05/84	24	24	24		24								M	O*	G	O								
	FFIA2	C		57.3N/133.6W	07/84	24	24	24		24								M	O*	G	O								
	FPSN7	P		33.5N/77.6W	11/84	24	24	24		24	24							M	O*W	G	O								
	FWYF1	P		25.6N/80.1W	06/91	24	24	24		24		24						M	O*	G	O								
	GDIL1	C		29.3N/90.0W	12/84	24	24	24	24	24		24				24		M	O*	G	O	Water level							
	GLLN6	C		43.9N/76.4W	09/83	24	24	24		24								M	O*	G	O								
	IOSN3	C		43.0N/70.6W	09/84	24	24	24		24								M	O*	G	O								

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					
	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				24	M	O*	G	O	Water level					
	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			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								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								M	O*	G	O						
	POTA2	C		61.1N/146.7W	05/95	48	48	48		48								M	O*	G	O						
	PTAC1	C		39.0N/123.7W	10/84	24	24	24		24								M	O*	G	O						
	PTAT2	C		27.8N/97.1W	03/84	24	24	24	24	24			24				24	M	O*	G	O	Water level					
	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				24	M	O*	G	O	Water level					
	SBIO1	C		41.6N/82.8W	09/83	24	24	24		24								M	O*	G	O						
	SGNW3	C		43.7N/87.7W	10/83	24	24	24	24	24			24					M	O*	G	O						
	SISW1	C		48.3N/122.8W	01/84	24	24	24		24								M	O*	G	O						
	SMKF1	P		24.6N/81.1W	02/88	24	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							24	M	O*	G	O	Water level					
	STDM4	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				24	M	O*	G	O	Visibility					
	THIN6	C		44.3N/76.0W	08/92	24			24								24	M	O*	G	O	Visibility					
	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								M	O*	G	O						
	VENF1	C		27.1N/82.4W	05/86	24	24	24		24			24				24	M	O*	G	O	Water level					
	WPOW1	C		47.7N/122.4W	01/84	24	24	24		24								M	O*	G	O						

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							
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			

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					
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	Ra,Rad,Cu					
52001		M	0	2.00N/164.97E	07/85	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
52002		M	0	1.91S/164.41E	07/85	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
52003		M	0	5.02N/165.01E	02/88	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
52004		M	0	5.00S/165.20E	01/87	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
52006		M	0	8.01N/165.07E	07/89	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
52007		M	0	8.03S/164.80E	08/91	3			3	3			3	1,10	S,1		1	A	D	G	O	Ra,Rad					
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						

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							
52301		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														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							
48839	48834	C		2058 N 10746 E	1959	4	4	4	4	4	3			4	4			O	O	L	O	Transmission by means of UHF radio in FM12 SYNOP * = ?		
		C		2008 N 10743 E	1958	8	8	8	8	8	3							O	O	L	O			
	48836	C		2101 N 10722 E	1961	4	4	4	4	4	3							O	O	L	O			
	48828	C		2040 N 10649 E	1954*	4	4	4	4	4	3			4	4			O	O	L	O			
	48/81	C		1848 N 10546 E	1961	4	4	4	4	4	3			4	4			O	O	L	O			
	48/89	C		1710 N 10722 E	1974	4	4	4	4	4	3			4	4			O	O	L	O			
	48889	C		1032 N 10856 E	1979	4	4	4	4	4	3			4	4			O	O	L	O			
	48855		C		1607 N 10813 E	1977*	8	8	8	8	8	3			4	4			O	O	G		O	
	48870		C		1345 N 10913 E	1976	8	8	8	8	8	3			4				O	O	G		O	
		48903	C		1020 N 10704 E	1979*	4	4	4	4	4	3			4	4			O	O	L		O	
	48917		C		1013 N 10358 E	1976*	8	8	8	8	8	3			4	4			O	O	G		O	
	48918		C		0841 N 10636 E	1979*	8	8	8	8	8	3			4	4			O	O	G		O	
	48920		C		0838 N 11155 E	1977*	8	8	8	8	8	3		4					O	O	G		O	
	48892		C		1125 N 11420 E	1977	8	8	8	8	8	3							O	O	G		O	
	48860		C		1633 N 11137 E	1977*													O	O	G		O	

* No report received since 1994