

Developments / Updates in OBSJMA for WIN



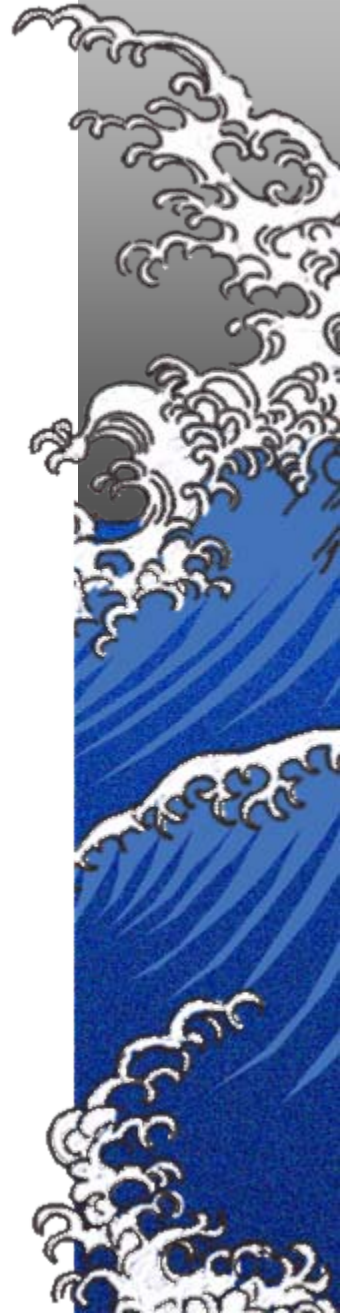
Japan Meteorological Agency

SOT-V (Geneva, May 2009)

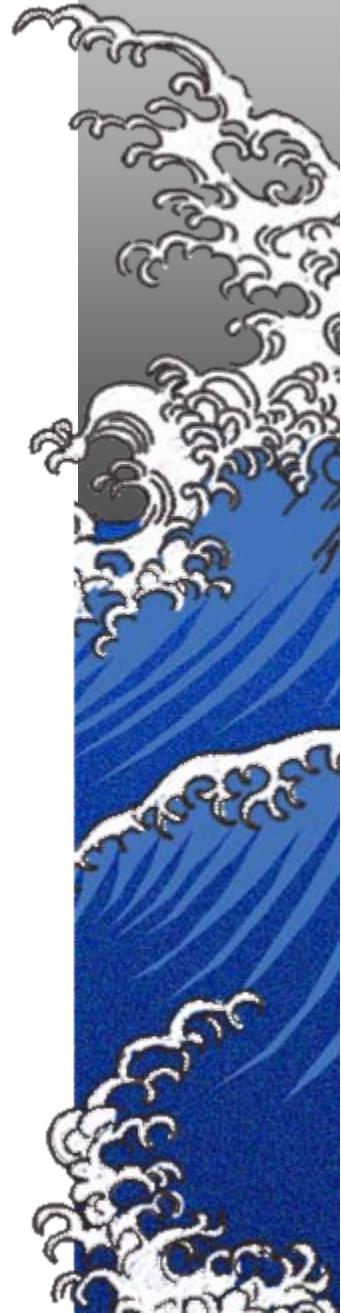


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1. Outlines of OBSJMA



What is OBSJMA?

- Software designed to assist in encoding observational data easily and accurately on Windows PCs.
- Automatically calculates air pressure, dew point, true wind etc..
- Can work both in English and in Japanese.

<History>

- **March 2002 "OBSJMA for WIN" Version 1.00**

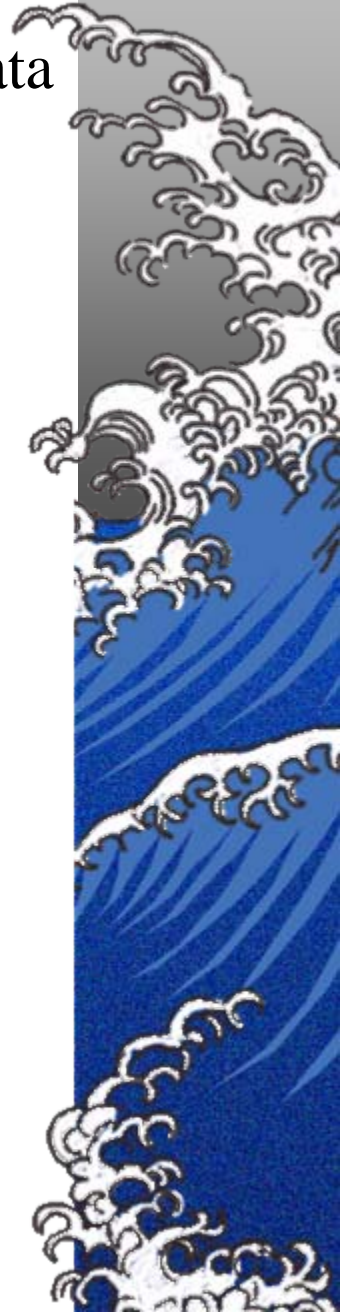
- **March 2004 "OBSJMA for WIN" Version 1.01**

Available for Windows XP

- **March 2009 "OBSJMA for WIN" Version 2.00**

Available for Windows VISTA

Added new features including a more detailed pressure correction scheme



The main Screen of OBSJMA

Inputting of ship's weather reports

File Save weather report Fixed data Observation item VOSCLim Language Help

Observation date and time (UTC)
2009 year 03 month 30 day 06 time

Latitude 30 ° 00 ' Longitude 165 ° 00 ' Ship dir 1 /3h Ship speed 2 /3h
N S E W

Wind wave
Period 08 s Height 1.5 m
Swell 1 Dir 04 Period 11 s Height 1.0 m
Swell 2 Dir Period Height

Visibility 59999 m Present weather ww 00 Past weather W1 0 W2 0

Air pressure
At full load In ballast
Read 1006.3 hPa At sea level (PPPP) 1013.3 hPa
Tendency for 3 hours Type Amount 4 hPa

Temp by dry and wet bulb
Dry Wet Freeze
Temp by the dew point
Temp Dew

Total cloud 2 Octas Cloud type Upper 0 Middle 3 Lower 1
Lowest cloud 1 Octas Cloud height 599 m Wave recorder Period Height

Ice accretion on ships
Causes Thickness Rate

Sea ice
Concentration Stage of development Land origin
Bearing of ice edge Trend over 3 hours

True wind Dir Speed
Ship heading 30 ° Ship speed 12.0 kt Ship course 20 °

Sea surface temp 20.5 °C

Weather message

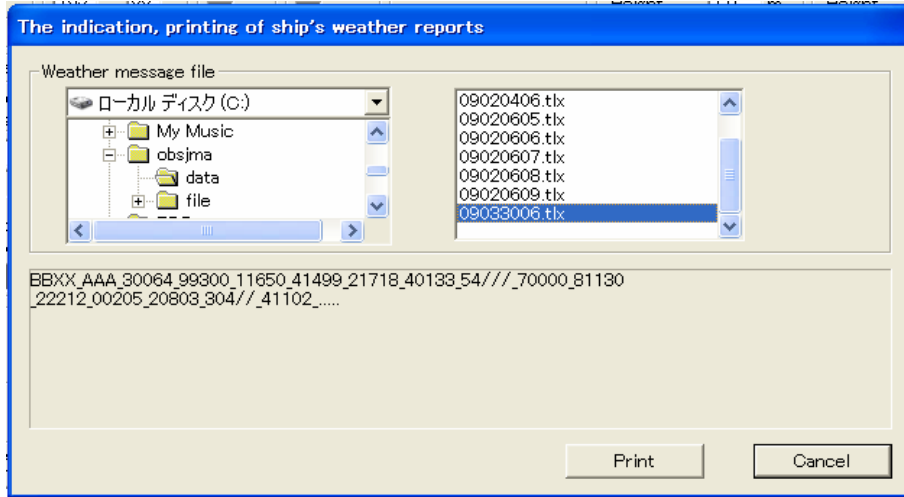
TRANSMIT	CALLSIGN	Y Y G G i w	9 9 LaLaLa	QcLoLoLoLo	iRIXhVV	N d d f f	(O O f f f)
BBXX	AAA	30064	99300	11650	41499	21718	00***
1 Sn T T T	2SnTdTdTd	4 P P P P	5 a p p p	7wwW1W1	8NhCLCMCH	9 G G g g	2 2 2 DsVs
1****		40133	54***	70000	81130	9////	22212
0SsTwTwTw	1PaPaHaHa	2PwPwHwHw	3dw1dw1dw2dw2	4Pw1Pw1Hw1Hw1	5Pw2Pw2Hw2Hw2	6IsEsEsRs	8SwTbTbTb
00205		20803	304**	41102	5****	6////	8****
I C E	ciSibiDizi						
ICE	/////						

Observation input field

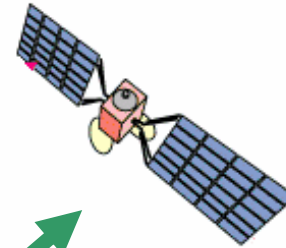
Weather message field

Transmission of a weather report and submission of a logbook

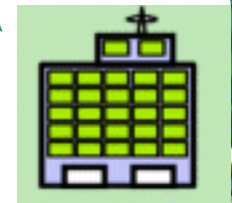
TLX file (Weather report)



INMARSAT



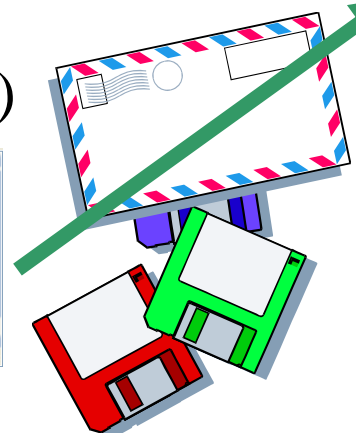
JMA



Mail or e-mail

IMMT file (Marine meteorological logbook)

32009020403120018500499225418020051530012020011600180100703041002	1	RRR	JP1014	01703	12	82000000000000000000000000000000	10009010	120010		
32009020403120018500499225418020051530012020011600180100703041002	1	RRR	JP1014	01703	12	82000000000000000000000000000000	10009010	120010		
32009020405120018500	225418020051559010020011600180100703041002	1	RRR	JP1014	01703	12	82000000000000000000000000000000	10009010		
3200902040612001850009092541802005154951140559	0180100703041002	1	RRR	JP1014	01703	12	82000000000000000000000000000000	10009010		
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32009020605120018500399225418020051530023020012300180100703030902	1	RRR	JP1014	01703	12	82000000000000000000000000000000	10009010	120010		
32009020606120018500399225418	6	0100020012300180100703030902	1	RRR	JP1014	3	12	82000000000000000000000000000000	10009010	120010
32009020607120018500399225418	6	0050020012300180100703030902	1	RRR	JP1014	3	12	82000000000000000000000000000000	10009010	120010
32009020607120018500399225418	6	0050020012300180100703030902	1	RRR	JP1014	3	12	82000000000000000000000000000000	10009010	120010
32009020608120018500399225418	6	0100020012300180100703030902	1	RRR	JP1014	3	12	82000000000000000000000000000000	10009010	120010
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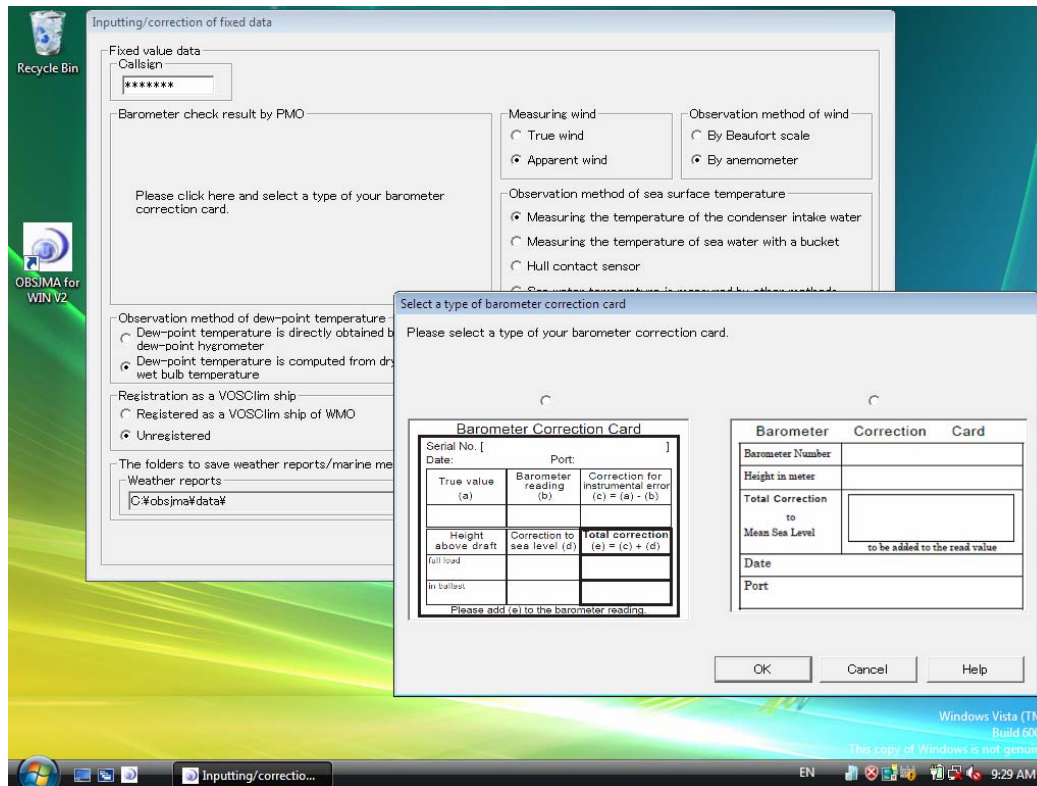


2. Update of OBSJMA in March 2009



Available for Windows Vista OS

- Microsoft Windows 95/98/Me/2000/NT4.0 /XP /Vista Japanese versions.
- Microsoft Windows XP/Vista English versions.



Accurate calculation of air pressure

NEW: Use the in-situ air temperature, instrumental error and the height of the barometer at full load or in ballast.

OLD: Use only one fixed total correction value by PMO barometer check

Inputting/correction of fixed data

Fixed value data
Call sign:

Barometer check result by PMO

Date of barometer check(yyyy/mm/dd):

Port of barometer check:

Correction for Instrumental error: hPa

	Height of barometer above draft	Total correction
<input checked="" type="radio"/> At full load	<input type="text" value="10"/> m	<input type="text" value="+07.0"/> hPa
<input type="radio"/> In ballast	<input type="text" value="12"/> m	<input type="text" value="+09.0"/> hPa

Observation method of wind

True wind
 Apparent wind

By Beaufort scale
 By anemometer

Observation method of sea surface temperature

Measuring the temperature of the condenser intake water
 Measuring the temperature of sea water with a bucket
 Hull contact sensor
 Sea water temperature is measured by other methods

Observation method of dew-point temperature

Dew-point temperature is directly obtained by dew-point hygrometer
 Dew-point temperature is computed from dry and wet bulb temperature

Wave recorder: Yes No

Temperature observation unit

Observation by 0.1 degC unit
 Observation by 0.5 degC unit
 Observation by 1 degC unit

Registration as a VOSCLIM ship

Registered as a VOSCLIM ship of WMO
 Unregistered

The folders to save weather reports/marine meteorological logbook

Weather reports:

marine meteorological logbook:

fixed data

Total correction of the barometer

hPa

Check date:

Check place:

Observation method of wind

By Beaufort scale
 By anemometer

Observation method of sea surface temperature

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Clarify the boundary of code VV (Horizontal visibility)

NEW

$20\text{km} \leq VV < 50\text{km}$

Horizontal visibility

Horizontal visibility (VV)

[VV]	[Visibility (Horizontal visibility)]
//	<input type="radio"/> Unknown
99	<input type="radio"/> 50km \leq VV
98	<input checked="" type="radio"/> 20km \leq VV < 50km
97	<input type="radio"/> 10km \leq VV < 20km
96	<input type="radio"/> 4km \leq VV < 10km
95	<input type="radio"/> 2km \leq VV < 4km
94	<input type="radio"/> 1km \leq VV < 2km
93	<input type="radio"/> 500m \leq VV < 1000m
92	<input type="radio"/> 200m \leq VV < 500m
91	<input type="radio"/> 50m \leq VV < 200m
90	<input type="radio"/> VV < 50m

OK Cancel Help

OLD

20km-50km

Horizontal visibility

Horizontal visibility (VV)

[vv]	[Visibility (Horizontal visibility)]
//	<input type="checkbox"/> Unknown
99	<input type="checkbox"/> 50km \leq
98	<input checked="" type="checkbox"/> 20-50km
97	<input type="checkbox"/> 10-20km
96	<input type="checkbox"/> 4-10km
95	<input type="checkbox"/> 2-4km
94	<input type="checkbox"/> 1-2km
93	<input type="checkbox"/> 500-1000m
92	<input type="checkbox"/> 200-500m
91	<input type="checkbox"/> 50-200m
90	<input type="checkbox"/> < 50m

OK Cancel Help

Clarify the boundary of code h (Height of the base of the lowest cloud)

2000m<=h<2500m

NEW

Height of the base of the lowest cloud

Height of the base of the lowest cloud (h)
[h] [Height above surface of base of the lowest cloud observed]

/ Unknown

9 2500m<=h, or no clouds

8 2000m<=h<2500m

7 1500m<=h<2000m

6 1000m<=h<1500m

5 600m<=h<1000m

4 300m<=h<600m

3 200m<=h<300m

2 100m<=h<200m

1 50m<=h<100m

0 h<50m

OK Cancel Help

2000m-2500m

OLD

Height of the base of the lowest cloud

Height of the base of the lowest cloud (h)
[h] [Height above surface of base of the lowest cloud observed]

/ Unknown

9 Above or equal to 2500m, or no clouds

8 2000-2500m

7 1500-2000m

6 1000-1500m

5 600-1000m

4 300-600m

3 200-300m

2 100-200m

1 50-100m

0 Less than 50m

OK Cancel Help

Available on PC without FD drive



Observers can select the drive and the folder to save the data.



3. Promotion of utilization of OBSJMA



Promotion of utilization

- Inform VOS of the release of new OBSJMA by a brochure and a website.
- Distribute e-logbook software via JMA website and by CD-ROM



Vol. 53 No. 1

March 2009

- ・ 2008年の台風のみとめ
- ・ 台風5日進路予測について
- ・ OBSJMAをより使いやすく改修しました
- ・ 米国インマルサット海洋地球局の番号変更について
- ・ 台風特別観測 T-PARCについて
- ・ 新たに提供開始した世界の二酸化炭素濃度分布の情報について
- ・ エルニーニョ監視通報の充実について

船と海上気象 53-1

OBSJMAをより使いやすく改修しました

Upgrade making OBSJMA More User-friendly

気象庁 地球環境・海洋部 海洋気象課
Marine Division, Global Environment and Marine Department, Japan Meteorological Agency

OBSJMAとは
船舶気象観測ソフトウェア「OBSJMA for WIN」とは、Windowsのパソコンを利用して船舶気象観測及び船舶気象観測表を正確かつ容易に作成するためのソフトウェアです。気象庁は、このソフトウェアを2002年9月から船舶に無料で配布しています。
2009年3月には、このソフトウェアの最新版である「OBSJMA for WIN Version 2.00」の配布を開始しました。

What is OBSJMA?
OBSJMA is software designed to assist in encoding observational data (a weather report and a marine meteorological logbook) easily and accurately on Windows PCs. The Japan Meteorological Agency (JMA) has distributed it to VOS for free since September 2002. In March 2009, the JMA started to distribute the latest OBSJMA for WIN Version 2.00.

Outline of the upgrade
OBSJMA for WIN Version 2.00 has new added features, including a more detailed pressure correction scheme for accurate reporting, and also works with Windows Vista OS.
Described below are the outlines of the upgrade.

今回の改修のポイント
「OBSJMA for WIN Version 2.00」では、より多くの方に利用していただくため、新しくWindows Vistaに対応するなど、汎用性を高めています。また、気圧補正機能の拡充を行うなど、より精度の良い観測データを作成することができるようになりました。主な改修のポイントを以下に説明します。

Figure 1 shows the OBSJMA software interface running on Windows Vista. It displays a data entry form with various fields for weather observations, including time, location, and meteorological data.

図1 Windows Vista 上でのOBSJMA for WIN Version 2.00の表示
Fig. 1 OBSJMA for WIN Version 2.00 running on Windows Vista.

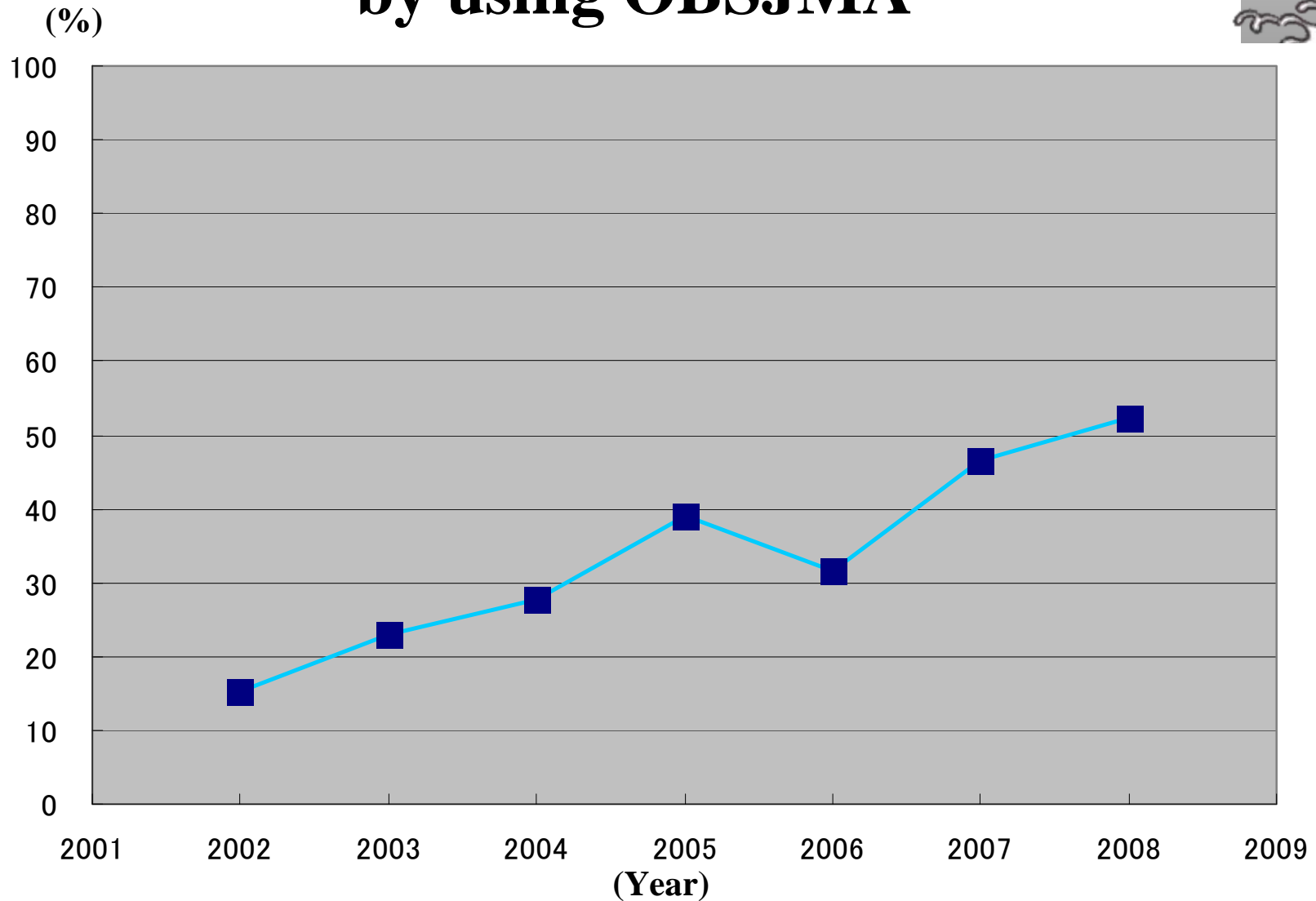
JMA website:

<http://marine.kishou.go.jp/en/index-en.html>

The image is a screenshot of a web browser displaying the JMA website page for OBSJMA. The page title is "Ships' Weather Observations/Reports". The main heading is "Ships' Weather Observations/Reports". Below this, there is a navigation menu with links for "Home", "PMS", "Instruments Check", "Weather Report", "Report on Instruments", "VOS Awards", "Reference", "Bulletin", and "Link". The page content includes the text "The software 'OBSJMA' realizes easy and accurate coding of weather reports" and "In March 2009, the JMA started to distribute the latest OBSJMA for WIN Version 2.00. OBSJMA for WIN Version 2.00 has new added features, including a more detailed pressure correction scheme for accurate reporting, and also works with Windows Vista OS. You should update the latest version, if you use previous version." There are links for "Download and Distribution of OBSJMA for WIN Version 2.00" and "Outlines of the OBSJMA for WIN Version 2.00". A small inset image shows the software interface.

JMA brochure

The percentage of logbook data reported by using OBSJMA



Thank you very much!

