

WMO FM13 SHIP: code for ship weather reports

Source: Manual on Codes - International Codes, Volume I.1, Annex II to the WMO Technical Regulations: part A- Alphanumeric Codes

https://library.wmo.int/index.php?lvl=notice_display&id=13617#.XnIxOoVmAh4

Code format

B B X X	CALLSIGN		
Y Y G G iw	9 9 La La La	Qc Lo Lo Lo Lo	4 ix h V V
N d d f f	1 sn T T T	2 sn Td Td Td	4 P P P P
5 a p p p	7 w w W1 W2	8 Nh CL CM CH	2 2 2 Ds Vs
0 ss Tw Tw Tw	2 Pw Pw Hw Hw	3 dw1 dw1 //	4Pw1Pw1Hw1Hw1
6 Is Es Es Rs	8 sw Tb Tb Tb	ICE	ci Si bi Di zi

Meanings of each group

B B X X : Identifier of a ship weather report

CALLSIGN : Call sign of the VOS

Y Y G G iw :

Y Y - Day of month (UTC)

G G - Time of observation to nearest hour (UTC)

iw - Wind speed indicator

9 9 La La La :

9 9 - Indicator for sea station position groups

La La La - Latitude, degrees and tenths

Qc Lo Lo Lo Lo :

Qc - Quadrant of the globe

Lo Lo Lo Lo - Longitude, degrees and tenths

4 ix h V V :

4 - Indicates that precipitation group is omitted

ix - Indicator for weather group

h - Height of base of the lowest cloud

V V - Horizontal visibility

N d d f f :

N - Total cloud amount

d d - Direction of surface winds (true direction, in tens of degrees)

f f - Speed of surface winds

1 sn T T T :

1 - Group indicator for air temperature

sn - Sign of temperature (0 for 0 °C or above, 1 for below 0 °C)

T T T - Air temperature in whole degrees and tenths

2 sn Td Td Td :

2 - Group indicator for dew-point temperature
sn - Sign of temperature (0 for 0 °C or above, 1 for below 0 °C)
Td Td Td - Temperature of dew-point in whole degrees and tenths

4 P P P P :

4 - Group indicator for pressure
P P P P - Mean sea level pressure in hectopascals and tenths, thousands digit omitted (eg, 998.6 is coded as 9986 and 1014.7 is coded as 0147)

5 a p p p :

5 - Group indicator for pressure change
a - Characteristic changes in atmospheric pressure in last 3 hours
p p p - Change of pressure in tenths of hectopascals during last 3 hours

7 w w W1 W2 :

7 - Group indicator for weather
w w - Present weather
W1 W2 - Past weather since last observation (two code figures are applicable, the highest code figure is recorded under W1 and the next highest is recorded for W2; if the weather has been the same throughout the period, the code figures for W1W2 will be the same)

8 Nh CL CM CH :

8 - Group indicator for clouds
Nh - Total amount of sky covered by low (or medium clouds, if no low) cloud
C_LC_MC_H: coding of cloud types as as specified in the International Cloud Atlas (WMO-No. 407), Volume I.
CL - Type of low clouds: Cu, Cb, Sc, St
CM - Type of medium clouds: Ac, As, Ns
CH - Type of high clouds: Ci, Cs, Cc

2 2 2 Ds Vs :

2 2 2 - Section indicator for maritime data
Ds - Ship's course made good during the past 3 hours
Vs - Ship's average speed during the past 3 hours

0 ss Tw Tw Tw :

0 - Group indicator for sea surface temperature
ss - Sign and type of measurement of sea surface temperature
Tw Tw Tw - Sea surface temperature in whole degrees and tenths

2 Pw Pw Hw Hw :

2 - Group indicator for wind waves
Pw Pw - Period of wind waves in seconds
Hw Hw - Height of wind waves in units of half metre

3 dw1 dw1 // :

3 - Group indicator for swell directions
dw1 dw1 - Direction in tens of degree from which the predominant swell is coming

4 Pw1 Pw1 Hw1 Hw1 :

4 - Group indicator for period and height of the predominant swell
Pw1 Pw1 - Period of the first (predominant) swell in seconds

Hw1 Hw1 - Height of the first (predominant) swell in units of half metre

6 Is Es Es Rs :

6 - Group indicator for ice accretion

Is - Type of ice accretion

EsEs - Thickness of ice in cm

Rs - Rate of ice accretion

8 sw Tb Tb Tb :

8 - Group indicator for wet bulb temperature

sw - Sign and type of wet bulb temperature

Tb Tb Tb - Wet bulb temperature in whole degrees and tenths

ICE : Indicator, ice group follows

ci Si bi Di zi :

ci - Concentration or arrangement of sea ice

Si - State of development

bi - Ice of land origin

Di - Bearing of principal ice edge

zi - Ice situation and trend over preceding 3 hours