

METEOROLOGICAL OBSERVATIONS

Once you have completed the sea ice observations, use the Meteorological Observations (met obs) form to record the meteorological conditions.

METEOROLOGICAL OBSERVATIONS							PHOTO	VIDEO	COMMENTS		OBSERVER	
hr (Z)	Twater (C)	Tair (C)	Wind (sp/d)	Cloud (oktas)	Visib (v)	Weath (ww)	film/ frame	Tape no./ Reading	Text	Ref no.	Name	hr (Z)
01	-1.8	-16.4	16/040	6	95	85	3/28	1/1:27:36	just completed ice station C	1	I.C. Maurice	01

Hour

hr (Z)

Ensure that the meteorological observations are recorded at the same time as the sea ice observations.

Water temperature

T_{water} (°C)

Water temperature is measured in degrees Celsius (°C). This can be read from a hull mounted probe on the ship, or from a bucket sample in the leads.

Air temperature

T_{air} (°C)

Air temperature is measured in degrees Celsius (°C). This is usually available from an instrument installed on the ship. It is important to ensure that the sensor you read is upwind of any vents on ship.

Wind speed and direction

Wind (sp/d)

Record the TRUE wind speed in metres per second (m/s) and the wind direction with respect to due North ($^{\circ}$ T). If the wind speed is measured in knots, use 1 knot = 0.514 m/s for conversion.

Cloud cover

Cloud (oktas)

Record total cloud cover in eighths of coverage. 0/8 is cloud free. 8/8 is total cloud cover.

Visibility

Visib (v)

Choose a code that best describes the visibility (how far you can see from the ship's bridge).

Weather

Weath (ww)

Choose a code that best describes the weather at the ship when you conducted the ice obs.

Photography

Film/Frame

It is useful to take a photograph of features of interest, observed when conducting the ice observations. Record the film and frame number.

Video

Tape no./Reading

If you have a continuous time lapse record of the ice conditions on video, record the film and frame number at the time of obs.

Comments

Text

This is usually a brief description of the characteristics of the pack; in particular features which are not covered by the observation codes such as frost flowers on dark nilas or swell penetrating the pack. Details of sampling sites, buoy deployments or other 'on ice' activities should also be recorded.

Further comments

Ref. no.

You may need a reference number here to continue your written notes on a separate comments page.

Observer

Name

Sign with a flourish so that we know who to blame.

Click here to view the results from the ship-based ice observations collected from the East Antarctic pack ice.

Results

