

SEA ICE OBSERVATIONS

Voyage:

Vessel:

Date:

Day/Date (Z):

POSITION		SEA ICE OBSERVATIONS																		
hr (Z)	Lat (°S) dd mm	Long (°E/W) ddd mm	Conc. (tenths)	PRIMARY			SECONDARY			TERTIARY			O/W	hr (Z)						
				c	ty	z	f	t	s	sz	c	ty	z	f	t	s	sz			
0																				0
1																				1
2																				2
3																				3
4																				4
5																				5
6																				6
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22																				22
23																				23

NOTES:
 * PRIMARY SEA ICE IS OF GREATEST THICKNESS. HENCE ty1 > ty2 > ty3

ICE TYPE (ty)	
10	Frazil
11	Shuga
12	Grease
20	Nilas
30	Pancakes
40	Young grey ice, 0.1-0.15 m
50	Young grey-white ice, 0.15-0.3 m
60	First year, 0.3-0.7 m
70	First year, 0.7-1.2 m
80	First year, >1.2 m
85	Multiyear floes
90	Brash
95	Fast ice

FLOE SIZE (f)	
100	Pancakes
200	New sheet ice
300	Brash/broken ice
400	Cake ice, <20 m
500	Small floes, 20-100 m
600	Medium floes, 100-500 m
700	Large floes, 500-2000 m
800	Vast floes, >2000 m

TOPOGRAPHY (t)	
100	Level ice
200	Rafted pancakes
300	Cemented pancakes
400	Finger rafting
5xy	New, unconsolidated ridges (no snow)
6xy	New ridges filled with snow or a snow cover
7xy	Consolidated ridges (no weathering)
8xy	Older, weathered ridges
x values:	
0	0-10% areal coverage
1	10-20%
2	20-30%
3	30-40%
4	40-50%
5	50-60%
6	60-70%
7	70-80%
8	80-90%
9	90-100%
y values:	
1	0.5 m av. sail height
2	1.0 m
3	1.5 m
4	2.0 m
5	3.0 m
6	4.0 m
7	5.0 m

SNOW TYPE (s)	
0	No snow observation
1	No snow, no ice or brash
2	Cold new snow, <1 day old
3	Cold old snow
4	Cold wind-packed snow
5	New melting snow (wet new snow)
6	Old melting snow
7	Glaze
8	Melt slush
9	Melt puddles
10	Saturated snow (waves)
11	Sastrugi
OPEN WATER	
0	No openings
1	Small cracks
2	Very narrow breaks, <50m
3	Narrow breaks, 50-200 m
4	Wide breaks, 200-500 m
5	Very wide breaks, >500 m
6	Lead/coastal lead
7	Polynya/coastal polynya
8	Water broken only by small scattered floes
9	Open sea

ICE CONCⁿ (c)
to be expressed in tenths

SEA ICE (z) AND SNOW THICKNESS (sz)
to be expressed in centimetres

BROWN ICE

0 <3 mg chl a m⁻²

2 ~10 mg chl a m⁻² [Pantone 110c]

1 ~4.5 mg chl a m⁻² [Pantone 100C]

3 ~30 mg chl a m⁻² [Trumatch 49b]

Day/Date (Z):

		METEOROLOGICAL OBSERVATIONS							PHOTO	BROWN ICE	COMMENTS			OBSERVER		
		hr (Z)	Twater (°C)	Tair (°C)	Wind (sp/d)	Cloud (oktas)	Visib (v)	Weath (ww)			Image no.	Surface/mid/bottom	Text	Ref. no.	Name	hr (Z)
0																0
1																1
2																2
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NOTES:

* ADDITIONAL COMMENTS MAY BE MADE ON THE FOLLOWING PAGE, PROVIDING DUE REFERENCE IS GIVEN