

ADVANCED ANALYSIS OF SYNOPTIC CHARTS

MAP A

- Explain the weather at X at noon on 9th October, especially the rain shower
- Explain the weather at Y.
- Explain the weather at Z, especially the fog
- On the map label :-
 - WARM FRONT
 - COLD FRONT
 - OCCLUDED FRONT
 - WARM SECTOR
 - DEPRESSION
 - ANTICYCLONE

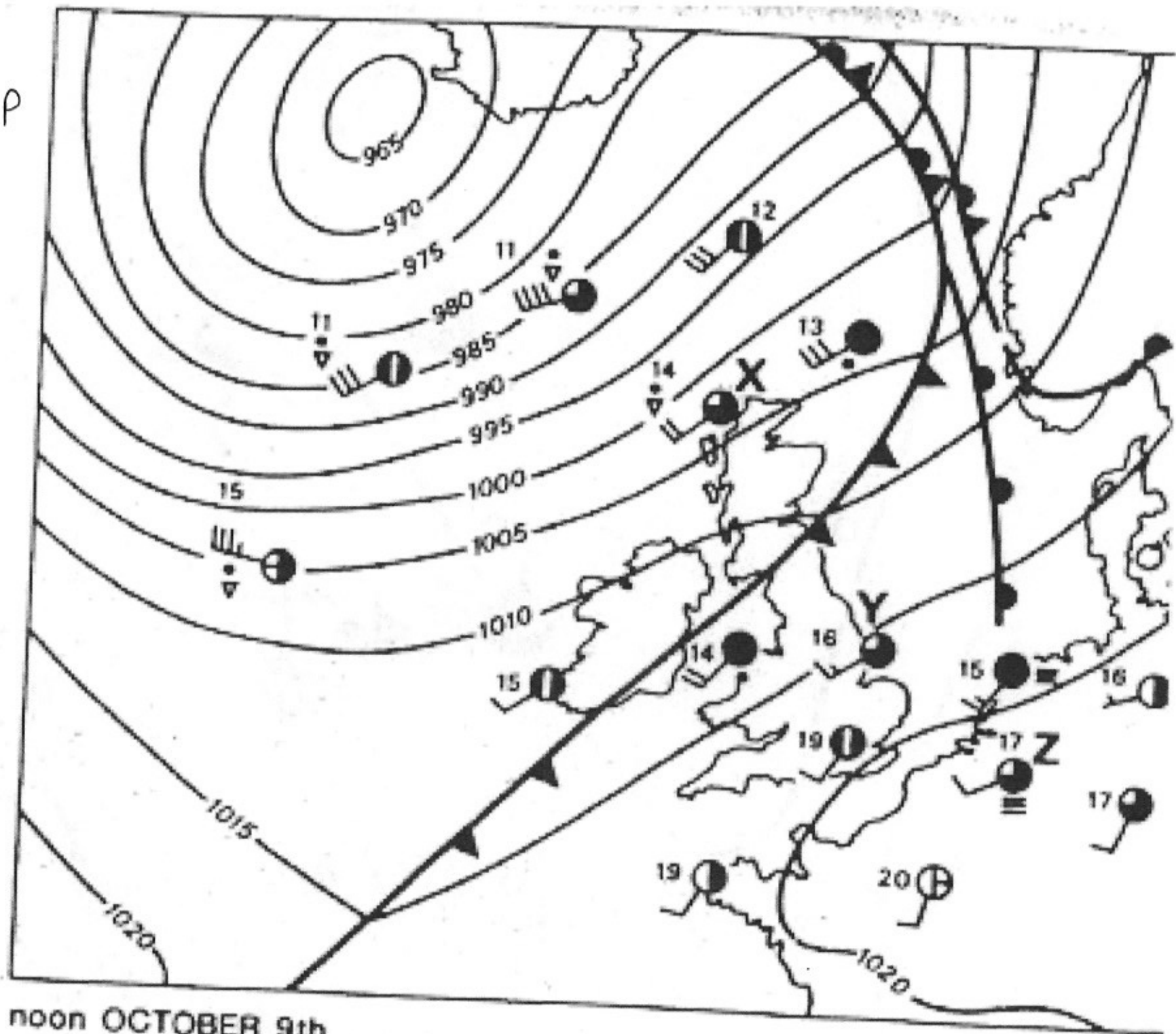
MAP B

- On the map label :-
 - ANTICYCLONE
 - DEPRESSION
 - COL
- Why are cloud amounts low over northern France?
- Why are the strongest winds over Denmark and why is there a rain shower there?
- Why is there drizzle on the east coast of England?
- Explain the weather at location B.

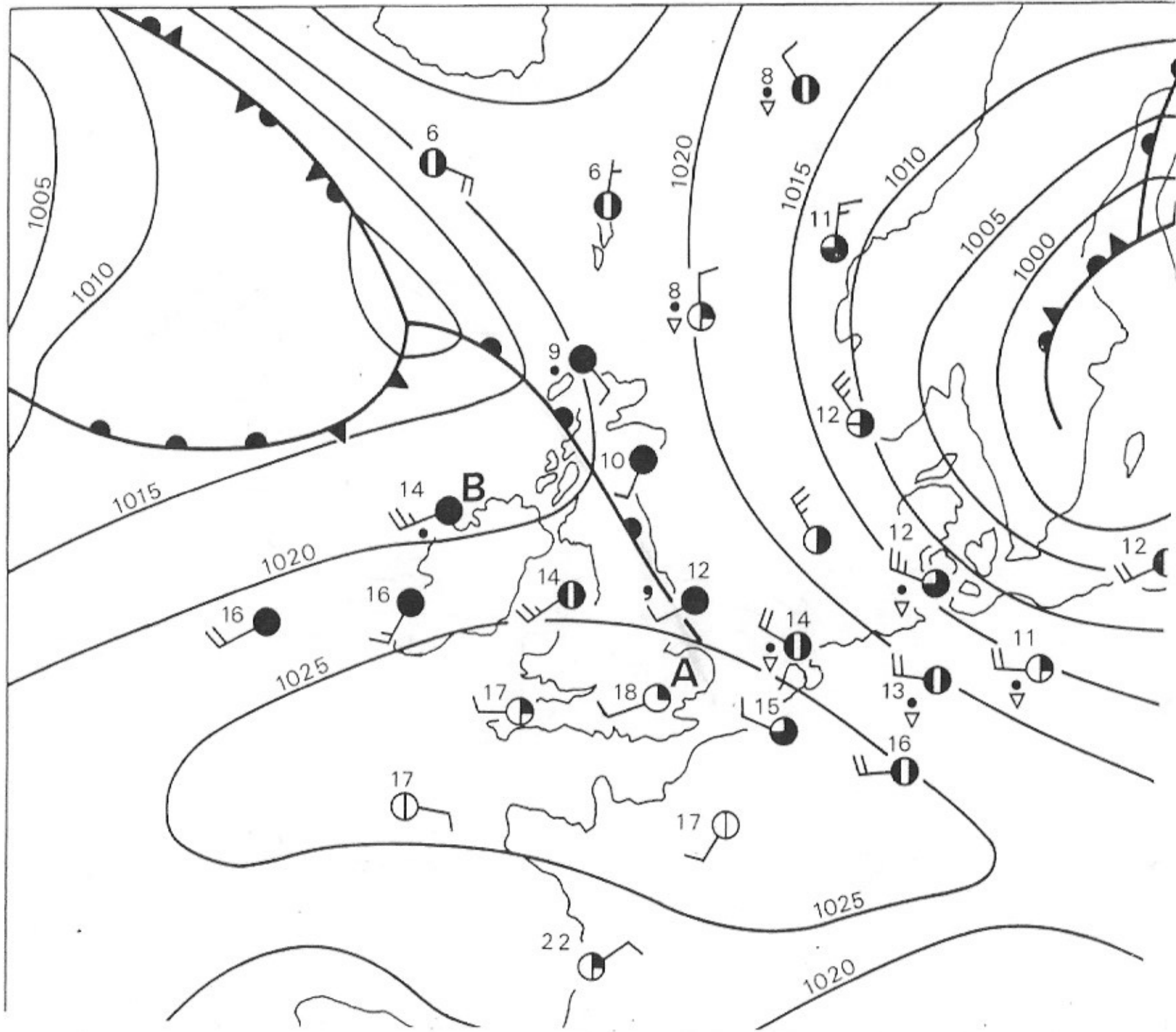
MAP SEQUENCE C

- Explain the sequence of weather experienced at Newcastle (N E England). On the first map it shows 14C, 6 okras, SSW wind, 25knots.
- The east coast of Italy has a westerly wind (from the land) on the first map. It should have wind from the east as winds will blow in a clockwise direction around the anticyclone centred to the north. Explain this anomalous wind direction.
- On the third map, 0600 hrs on 16th January the east coast of Italy has calm conditions and mist. Explain this weather.

MAP
A

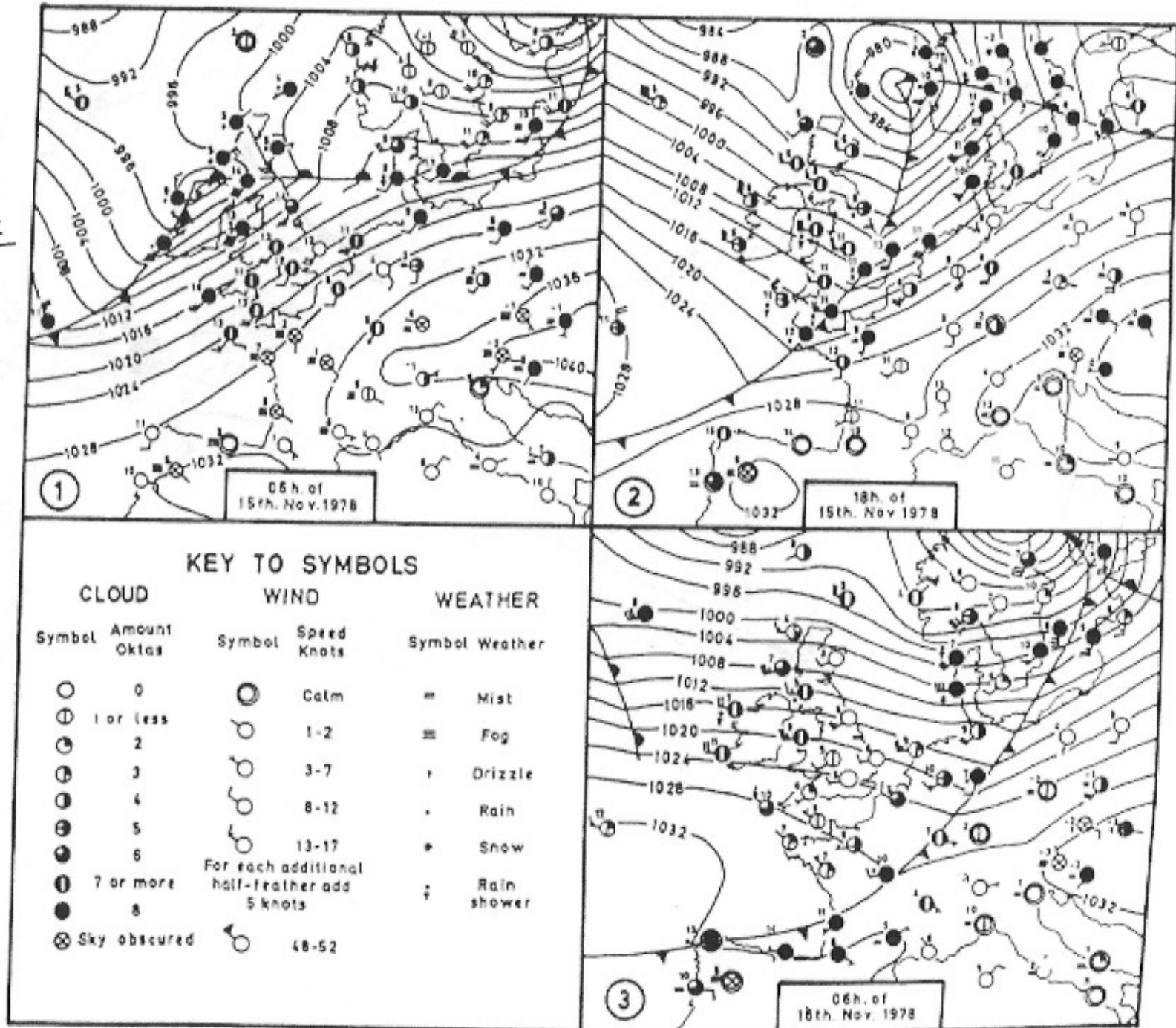


noon OCTOBER 9th



MAP
B

MAP
SEQUENCE
C



KEY TO SYMBOLS

CLOUD		WIND		WEATHER	
Symbol	Amount Okta	Symbol	Speed Knots	Symbol	Weather
○	0	☉	Calm	=	Mist
⊖	1 or less	☉	1-2	≡	Fog
⊕	2	☉	3-7	+	Drizzle
⊗	3	☉	8-12	.	Rain
⊘	4	☉	13-17	*	Snow
⊙	5	☉ For each additional half-feather add 5 knots	48-52	:	Rain shower
⊚	6				
⊛	7 or more				
●	8				
⊗	Sky obscured				

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