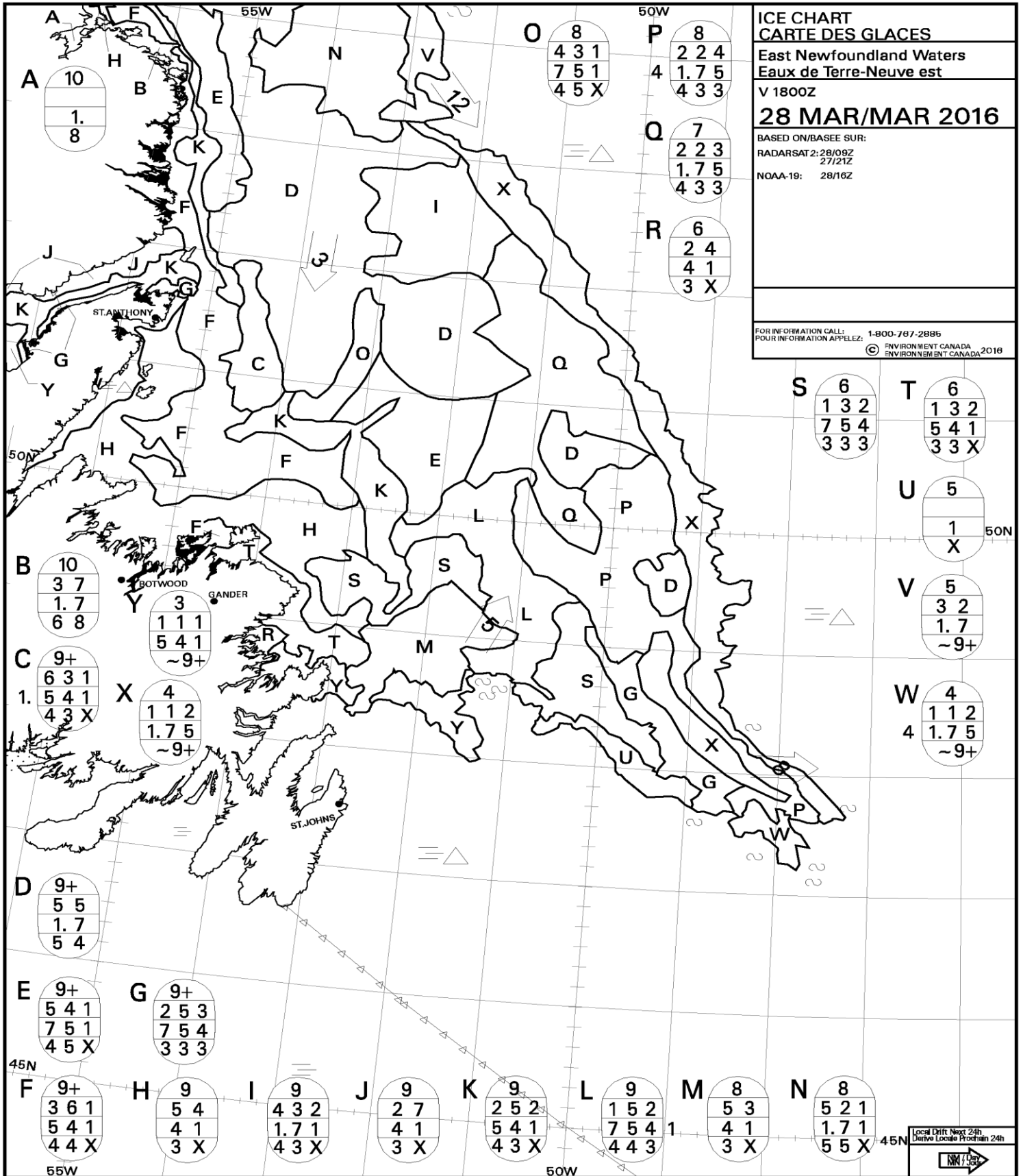
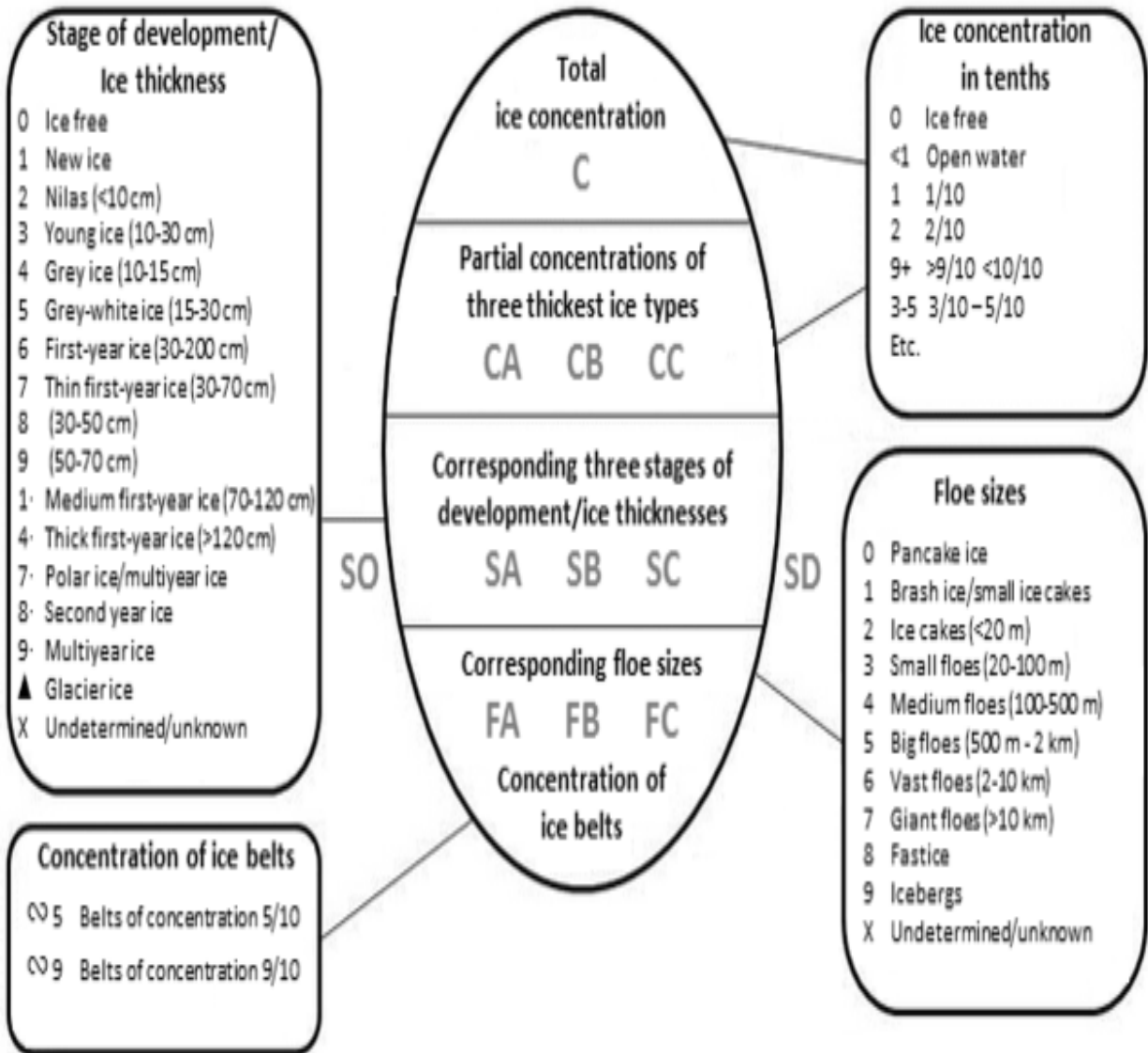


- ii. Subsequently wind direction commenced to veer and became steady with increasing wind force and continual drop of atmospheric pressure. Explain the reasons for the mentioned change of weather and state whether any change in the action taken above to avoid the centre should be reconsidered. (20 marks)
4. a) Using the provided Surface Analysis chart state the following:
- i. The current weather in the position 50° 00' N and 010° 00' W. (10 marks)
- ii. Weather forecast for a vessel proceeding west from the above position. (10 marks)
- b) With reference to 500 mb chart
- i. Identify "Ridges" and "Troughs" on the chart. (05 marks)
- ii. What is the significance of 5640 m contour on the chart? (05 marks)
- iii. State the outlook (forecast) for two surface low pressures developing in approximately 30°00'N, 175°00'W and 35°00'N, 145°00'W. (10 marks)
5. Write short notes on following:
- a) Significant Wave Height
- b) Probable wave height
- c) Vector mean current
- d) Predominant Current (05 marks each)
6. a) Define Following tracks in voyage planning:
- i. Least time
- ii. Least time with least damage
- iii. Constant Speed (05 marks each)
- b) Briefly explain how to construct a least time track. (05 marks)

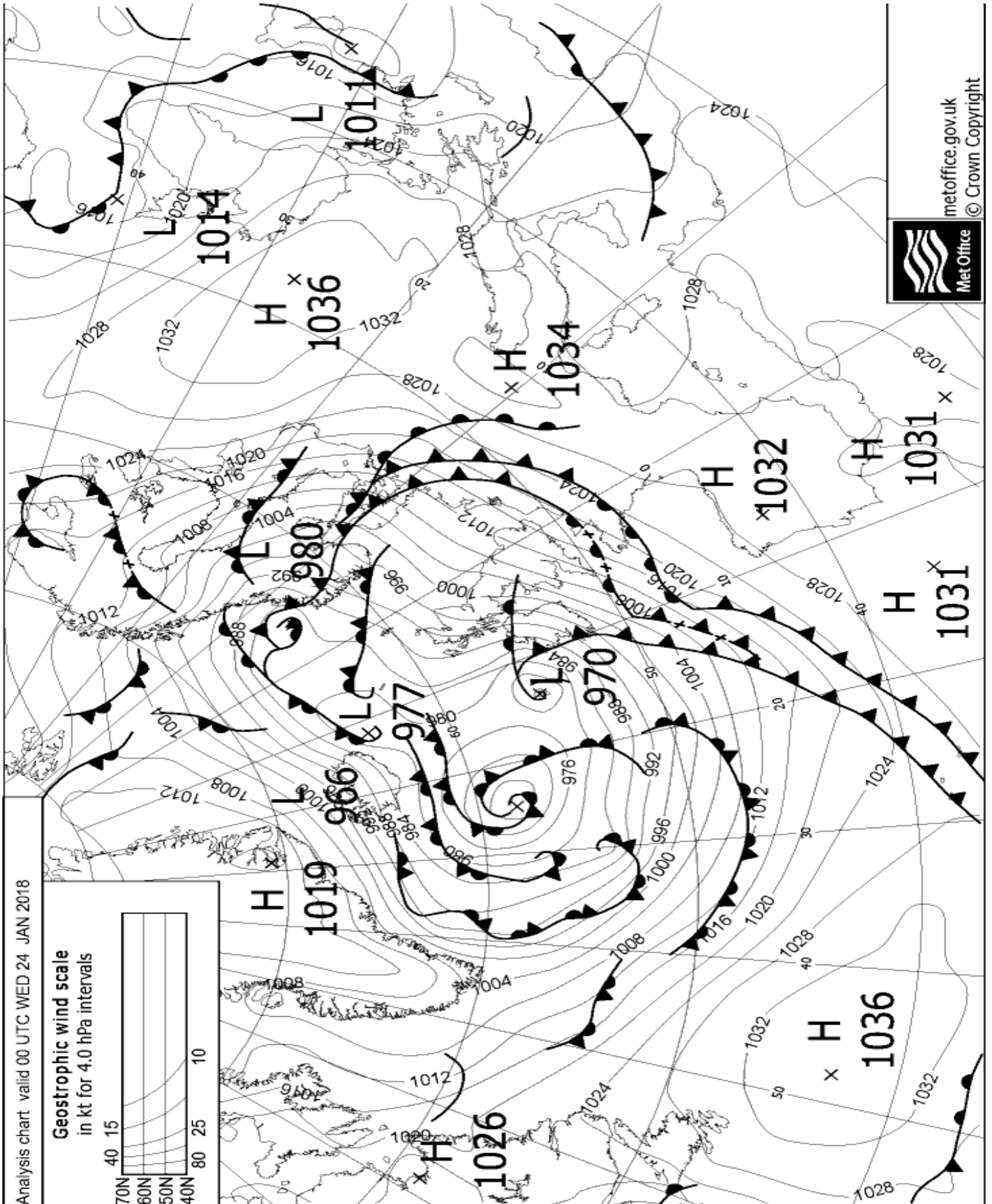


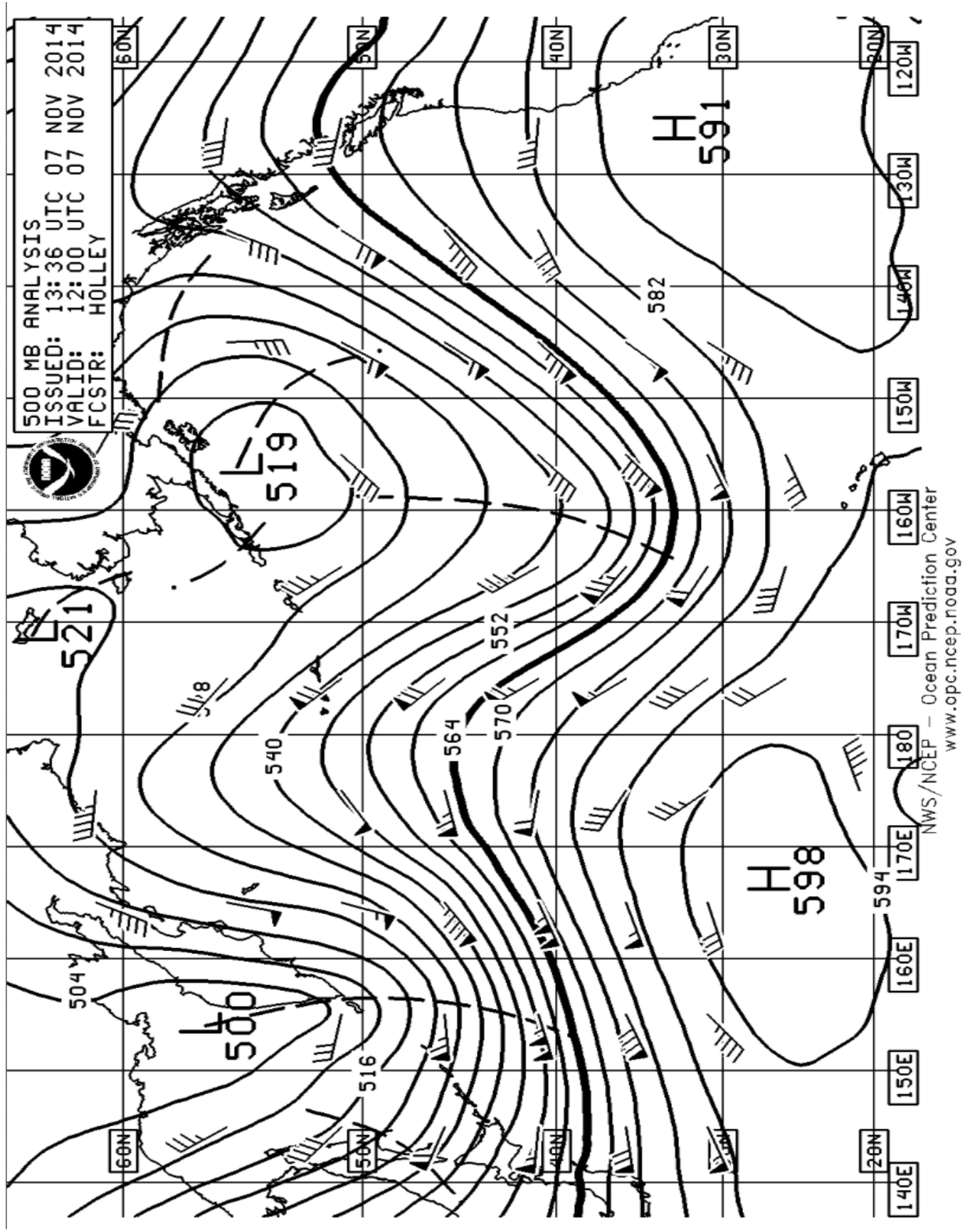


The ice egg may be supplemented by 2 figures:

SO Sporadic (<1/10 concentration) occurrences of ice, thicker than indicated inside the egg, may be indicated here.

SO When all partial ice concentrations inside the egg total considerably less than the total ice concentration C , the stage of development of the predominant of the remaining thinner ice types may be indicated here.





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