

METEOROLOGY—continued.

SHIPS' REPORTS.

Paper 2—continued.

| Ship. | Position. | | Wind. | | Barometer corrected. | Barometer Tendency. | Course. | Speed. | Weather. |
|--------------|------------|------------|------------|--------|----------------------|---------------------|----------|--------|--------------------|
| | Latitude. | Longitude. | Direction. | Force. | | | | | |
| A | | | | | | | | | |
| Homeric .. | 46° 59' N. | 6° 35' W. | S.S.W. | 6 | 998 | 29.47 | N. 28 E. | 13 | Overcast. |
| Montroyal .. | 46° 48' N. | 23° 36' W. | N.W. | 6 | 1008 | 29.77 | N. 77 E. | 19 | Cloudy. |
| Oranian .. | 56° 00' N. | 14° 54' W. | North | 4 | 988 | 29.18 | S. 87 E. | 17½ | Cloudy. |
| Orari .. | 49° 04' N. | 28° 57' W. | S.W. | 4 | 1011 | 29.86 | N. 75 E. | 10½ | Overcast, drizzle. |
| | 47° 47' N. | 31° 23' W. | W.S.W. | 4 | 1011 | 29.86 | N. 65 E. | 9½ | Overcast, drizzle. |

BRITISH WEATHER SHIPPING BULLETIN.

Station Reports 10307, 85000, 20128, 82064, 82357, 81276, 45306, 84166, 52018, 90228, 61118, 99186, 71118, 01166, 80027, 01157, 90167, 91164, 00518, 88143.
Foreign 10013, 94083, 20117, 11063.

Decode these reports using the International Weather Code Tables, and plot all the observations on the accompanying chart. Draw the isobars, and state what system is governing the prevailing weather; and supposing that A maintains a speed of 13 knots, what weather is she likely to experience during the next 12 hours from observation time?

SHIP CONSTRUCTION AND STABILITY.

Paper 3 (3 hours).

1. What are Lloyd's Numerals and how are they obtained?
2. Sketch in outline, a midship section of a ship built with ordinary floors, naming the various parts.
3. How is continuity of strength provided at the break of a Raised Quarter Deck?
4. What is a "joggled plate"? State its advantages and disadvantages.
5. What are the main features governing Freeboard assignment?
6. What is the effect of concentrated loads in a ship? What would you consider a bad distribution of weight and buoyancy?
7. A box shaped vessel 210 ft. in length, 32 ft. beam, and 16 ft. depth floats on an even keel at draft of 8 ft. The G.M. is 2.8 ft. Calculate new G.M. after placing 64 tons on deck, vessel remaining on even keel.
8. A box shaped vessel of same dimensions as above floats on an even keel at 8 ft. draft. A weight of 50 tons is moved 40 ft. forward in a horizontal direction. Calculate change of trim.

ENGLISH.

Paper 4 (2 hours).

You have been discharging a coal cargo by means of grabs. Damage was done to a bulkhead, some of the hold ladders were bent, and tanktop dented in several places.

Write a letter (1) to the party responsible for doing the damage, setting out your claim; (2) write a letter to your owners after damage has been repaired to your satisfaction.