Week 16



1



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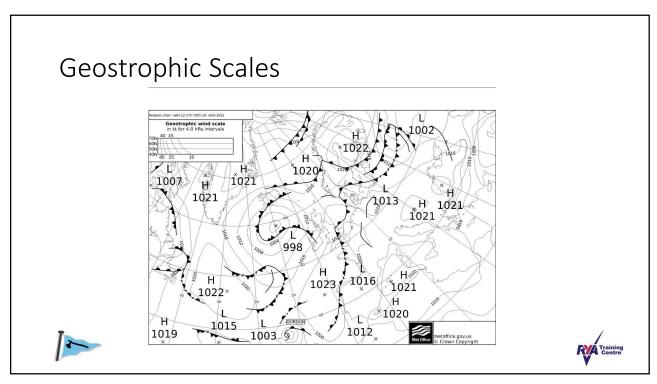
Interpreting Forecasts Ex

Course Exercise Book – p19 Weather Booklet

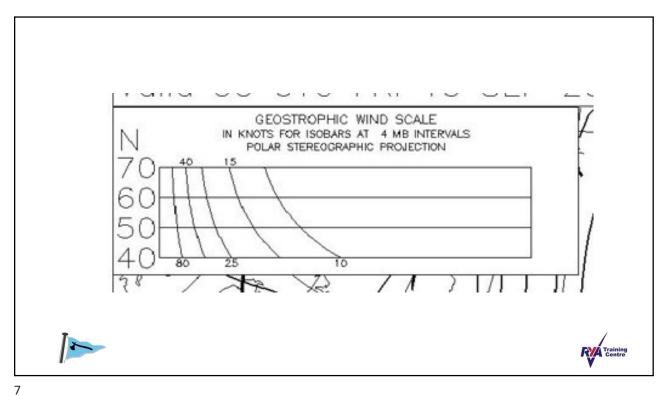




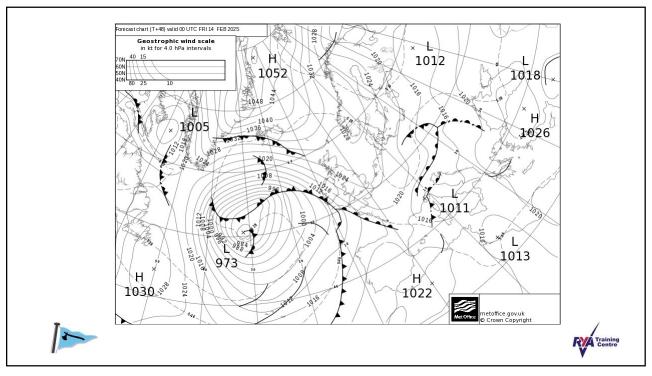
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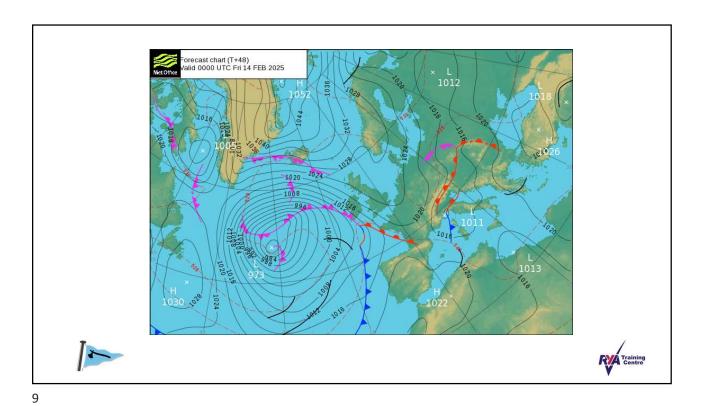


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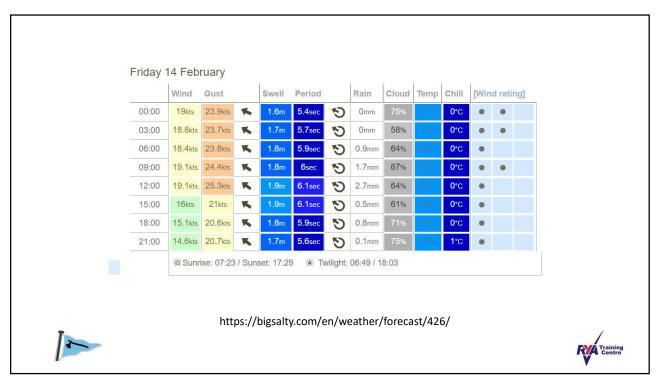


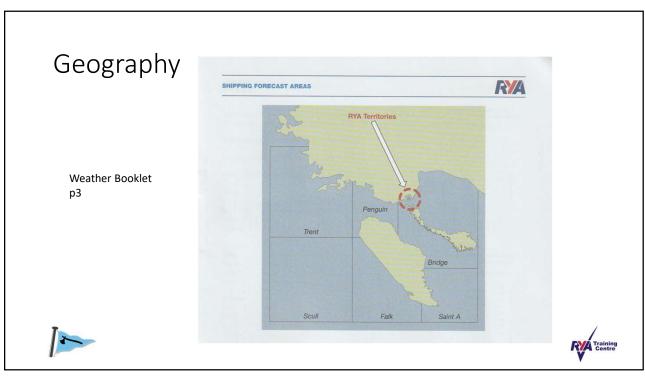
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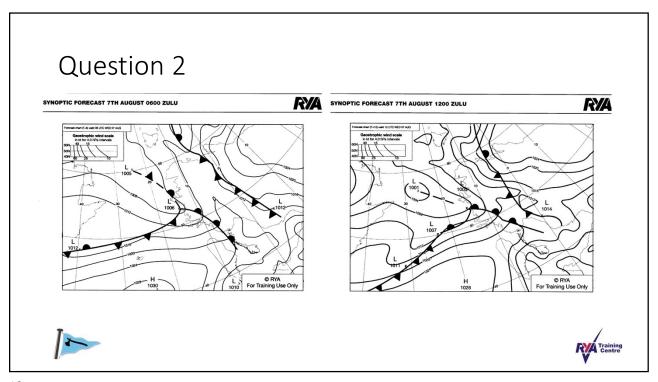


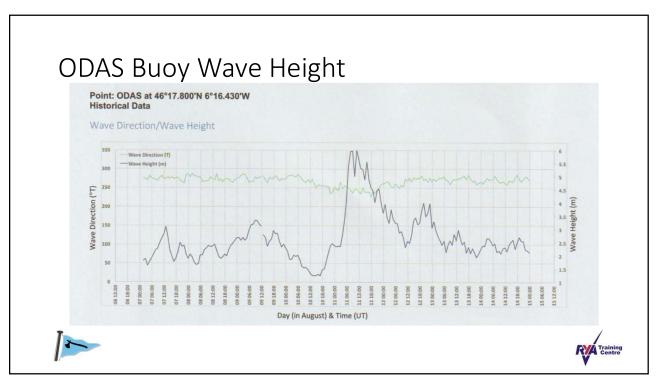


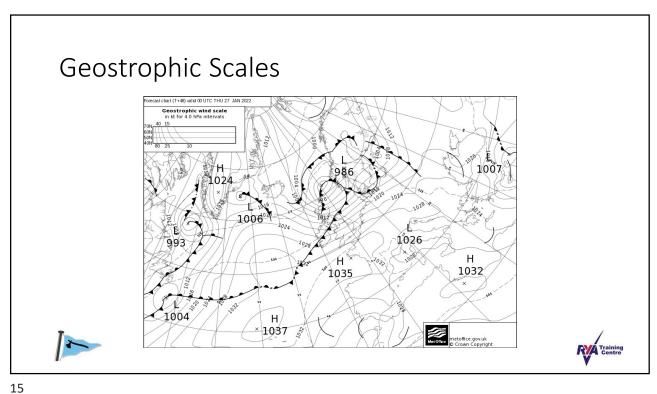
Fri 14 Feb $7°\ Maximum\ daytime\ temperature:\ 7°\ Celsius; 6° Minimum\ nighttime\ temperature:\ 6°\ Celsius;$ Sunrise:07:26 Sunrise:07:26
Sunset:17:27
Light rain changing to overcast by early evening.
LUV
LPOllution
No pollen data.
First high tide: 07:53 for
Time Time 00:00 03:00 06:00 09:00 12:00 15:00 18:00 Weather symbols Chance of precipitatio 40% 60% 70% 70% 60% 60% 50% 40% Temperatu re (°C) 5° 5° 5° 6° Feels like temperatu re (°C) 0° 0° 0° 0° 1° 1° 2° 3° Wind direction and ESE17 ESE19 SE19 SE19 SE19 ESE17 ESE14 ESE13 speed (mp h) Wind gust (mph) 33 34 34 31 26 23 23 Visibility (d VG VG G G G G G escription) Humidity

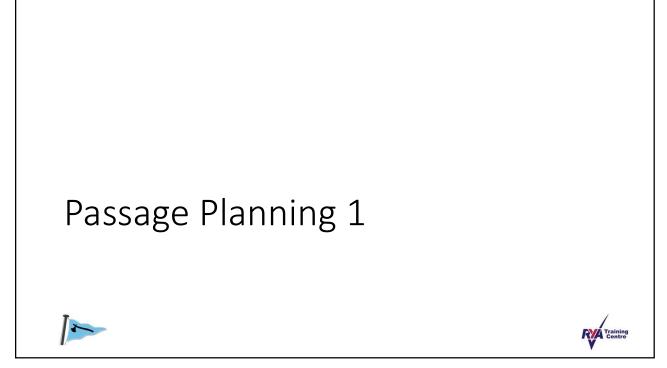




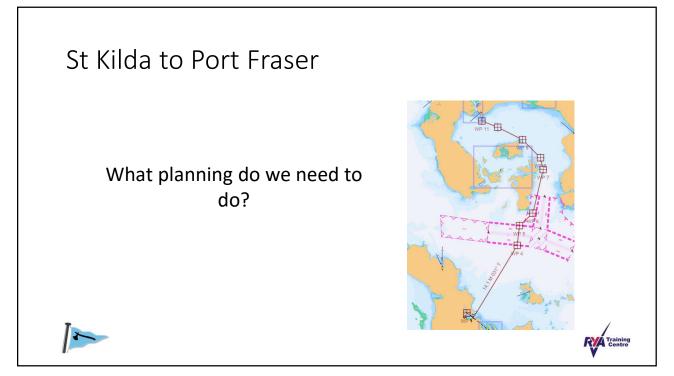












SOLAS – Regulation 34

- The Master shall ensure that:
 - The voyage has been planned using appropriate charts and publications
 - The route for the voyage has been identified
 - His decision is final in terms of safe navigation and protection of the marine environment





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MCA



- Suggested content for a small craft passage plan:
 - Up to date weather forecast
 - Tidal predictions
 - · Limitations of boat and crew
 - Navigational dangers
 - Contingency plan
 - Details left with a responsible person ashore
- Evidence?







Appraisal Factors

- Objectives
- Constraints
- Hazards
- Aids
- Route





Objectives

- Where to
- How to get there







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Constraints

- Capability of vessel and crew
- Sunrise / Sunset
- Tides access to mooring
- Locks and Swing Bridges
- Tidal Streams / Gates
- Fuel carrying capacity
- Traffic Separation Schemes







Hazards

- Rocks and Shallows
- Weather
- Visibility
- Wind and Sea State
- Overfalls
- Special Operations Danger areas etc
- Shipping Density / TSS







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Aids

- Those things which are going to help you achieve your objective
- Physical
 - Land features
 - Buoyage
- GNSS





Planning

- Bolt Holes
- Planning on paper
- Waypoints
 - Route first waypoints added to route
 - Not on objects
 - Easily confirmed visually
- Planning on screen
 - No go areas
- Pilotage Plans
 - for departure and arrival ports





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Tactical Planning

- Tides / Tidal Gates
- Wind
- Lee bowing
- Steer towards shift
- Close the coast on port tack
- Cone / Corridor beating towards a point
- Lay lines
 - Use of GPS





Regulations

- Ports of Entry
- Documentation
- Clearance Procedures







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Storing and Provisioning

- Fuel
 - Enough for the voyage
 - Reserve
 - Not all in one tank
- Water
 - Depends on climate but around 2 5 litres per person per day.
 - Separate tanks / carriers
- Food
 - Sufficient / type
 - · Ease of cooking













Execute







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Monitor

- Log
 - Position compared with prediction
- Weather
 - Compared with forecast
- Engine performance
 - Temperatures, oil pressures, fuel consumption
- Crew welfare
- Change of Plan?





Homework

- Exercise "Interpreting Forecasts" p19 Remaining questions.
- Complete by 5 Mar.





