

#### **Predicting The Shifts** Fiona Campbell Team GBR Meteorologist © Copyright RYA 2006

# First shift from **Shipping Forecast?**

- America's Cup
- 1.The basics
- Olympics
- Portland Harbour
- Weymouth Bay
- 2. Venue knowledge
- 3.Keep it simple!

3 important things to remember;

## TODAY

2. Venue knowledge 3. Keep it simple!

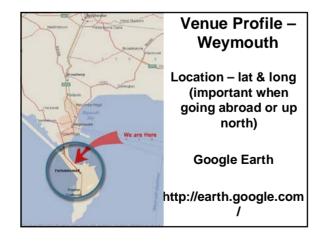
1. The basics

- Venue profile
- Large weather effects on the local wind
- Local effects on your racing wind
- **Compiling a forecast**
- Using the knowledge & forecast on the water

#### Venue Profile -Weymouth

- Location lat & long Synoptic Weather; fronts, low's, high's (where are they?) Prevailing gradient wind direction

- Prevailing surface wind direction Estimated wind speeds Sea breeze? Direction, speed, direction changes Air temperature
- Sea temperature Stability stable / unstable venue? Weather (mainly sunny, wet, bit of everything)
- Currents
- Wave height
- Map local effects, headlands which direction? Pictures what does it look like?

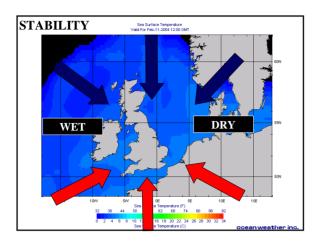


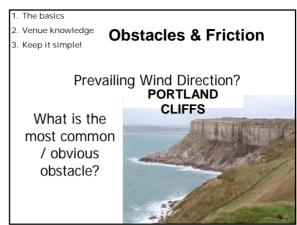
- 1. The basics
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#### Large scale weather & how it affects your sailing wind

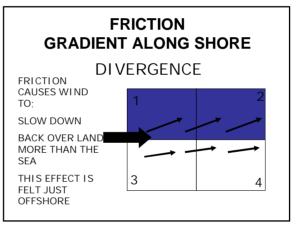
Prevailing Wind Direction?

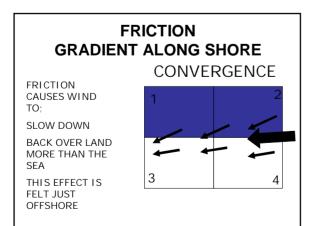
Stability Large Scale Changes Fronts

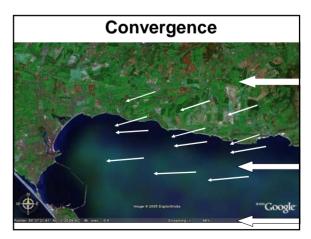






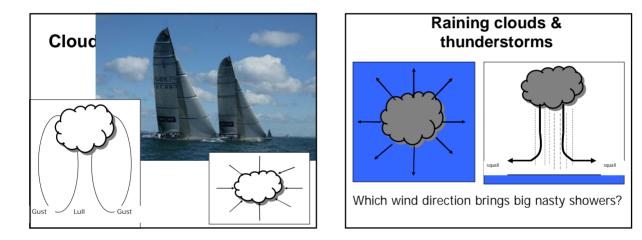


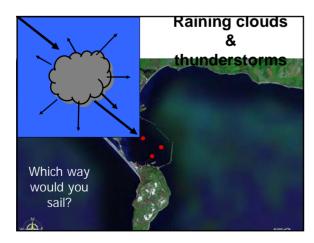


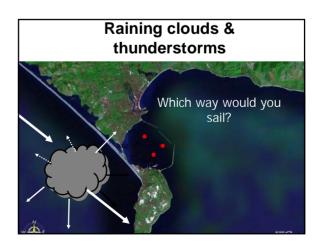


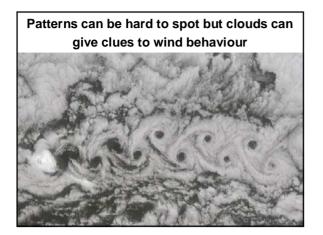






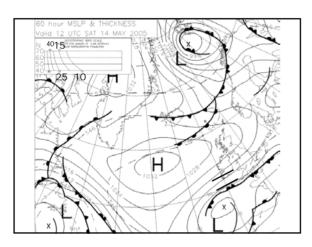


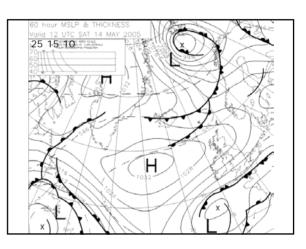




# Predicting the Shifts The Essentials of Weather How to create a forecast How to read a forecast How to disseminate a forecast How to use the forecast

Call books / note books





### Online resources

Synoptic Charts www.weather.org.uk/charts/thumbs.html

Wind barbs & general forecasts www.weatheronline.co.uk/sail.htm

Observations http://www.xcweather.co.uk/

### **Online education resources**

www.bbc.co.uk/weather

http://www.bom.gov.au/lam/

http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/h ome.rxml This serves as an online guide to the basics

http://wps.prenhall.com/esm\_lutgens\_atmospher e\_8/0,6585,263545-,00.html - heavy going but good if you persevere

### Books



Wind Strategy & Weather at Sea

RYA Weather Handbook, Chris Tibbs North U Weather for Sailors

High Performance Sailing, Frank Bethwaite