

Hayling Island 2006



Forecast date: Wednesday, August 02nd, 2006
Issued: August 02nd, 2006 07:40 LT
Race area: Hayling Bay
Meteorologist: Meeno Schrader

Synopsis today (07:00 LT) and development:

- Low pressure still full on and the only system determining the weather today
- Center of the low with 1000 hPa over the Northsea
- No significant move of the low through the day
- Hayling Bay is just sitting on the SW side of this low
- Weak trough approaching from the NW to slip over the S of England
- Trough just touching w the S-ly dip of the trough Hayling Island during midday/early afternoon
- Pressure rising behind the trough into tomorrow
- Gradient fairly constant and good
- Air mass still unstable leading to high gustiness
- Tomorrow sees high pressure over the NE Atlantic slowly building into the Irish Sea

Weather + Clouds:

- First Sunny
- Building cum clouds / layered stratified cum clouds during later morning
- Clouds passing over midday (still sun offshore, more clouds inland), but should just stay dry no rain
- Darker clouds (could be forming a band=convergency) indicate wind shift to the right
- Clearing behind these clouds into the afternoon

Note: It is possible that these clouds are only dense over the main land (look to the NNW to N) while you stay in relatively friendly conditions. Also then wind is tending to go right.

Temperatures: air max: 22°C on land 19°C on water **SST:** 18°C

Forecast:

All digits are true (not magnetic!)

SCENARIO 1: 60 % steady gradient wind w clouds passing by

- Good gradient already present this morning
- Gradient stays fairly constant during the day (in TWD and TWS) from W to WNW with no huge wind shifts to expect
- There is a tend to go RIGHT during early afternoon
- Average wind field offers 18-20 kts

Gusts:

- Conditions are very gusty
- Gustiness increases during the day
- Gusts are from 300
- Wind speed within gusts: 26 kts touching 28 kts later afternoon

Wind speed distribution:

- Left side sees MORE pressure (+2 kts)
- Right side (closer to the beach) sees LESS pressure

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Wind direction:

- average dir is pretty constant: TWD 290-280
- After ~14:30 wind tends to go slightly right by 5° to 10°

MAX left : TWD 270
MAX right : TWD 295 → 300

Wind pattern:

- Gusty
- Longer oscillations w unregular short shifts
- In case of symmetrical cloud bands forming wind is oscillating with the cloud bands

Average wind during the day (Time is local time (UTC + 1)):

10:00 LT: 290°	18	kts / gusts	22 kts
11:00 LT: 290° - 280 °	18	kts / gusts	23 kts
12:00 LT: 290° - 280 °	17 – 19	kts / gusts	24 kts
13:00 LT: 290° - 280 °	17 – 19	kts / gusts	26 kts
14:00 LT: 280°	19 – 20	kts / gusts	26 kts
15:00 LT: 290°	19 – 21	kts / gusts	26 kts
16:00 LT: 290° - 300 °	19 – 21	kts / gusts	up to 28 kts
17:00 LT: 300°	19 – 21	kts / gusts	up to 28 kts
18:00 LT: 300°	19 – 21	kts / gusts	up to 28 kts

Comment: -

Scenario 2: 40% probability

Again only small changes to scenario 1
Differences:

- Wind is more from TWD 280-270 in average
- Wind is a little bit weaker: TWS 16 - 18 kts average, gusting 23 kts

Current:

- 12-14 LT: decreasing setting to the E = 0.6 → 0.4 kts, max of current on the left side
- 14-15 LT: further decreasing w no meaning running into slickwater... right side starts to see first countercurrent setting into the W
- 15-16 LT: slowly building current setting W mainly now first on the right side 0.2 → 0.3 kts. Starting to become choppy.
- 16-17 LT: increasing into 0.5 kts setting W to WNW. Especially left side very choppy and beaming steep : 1 → 1.5 m.

OUTLOOK Tomorrow

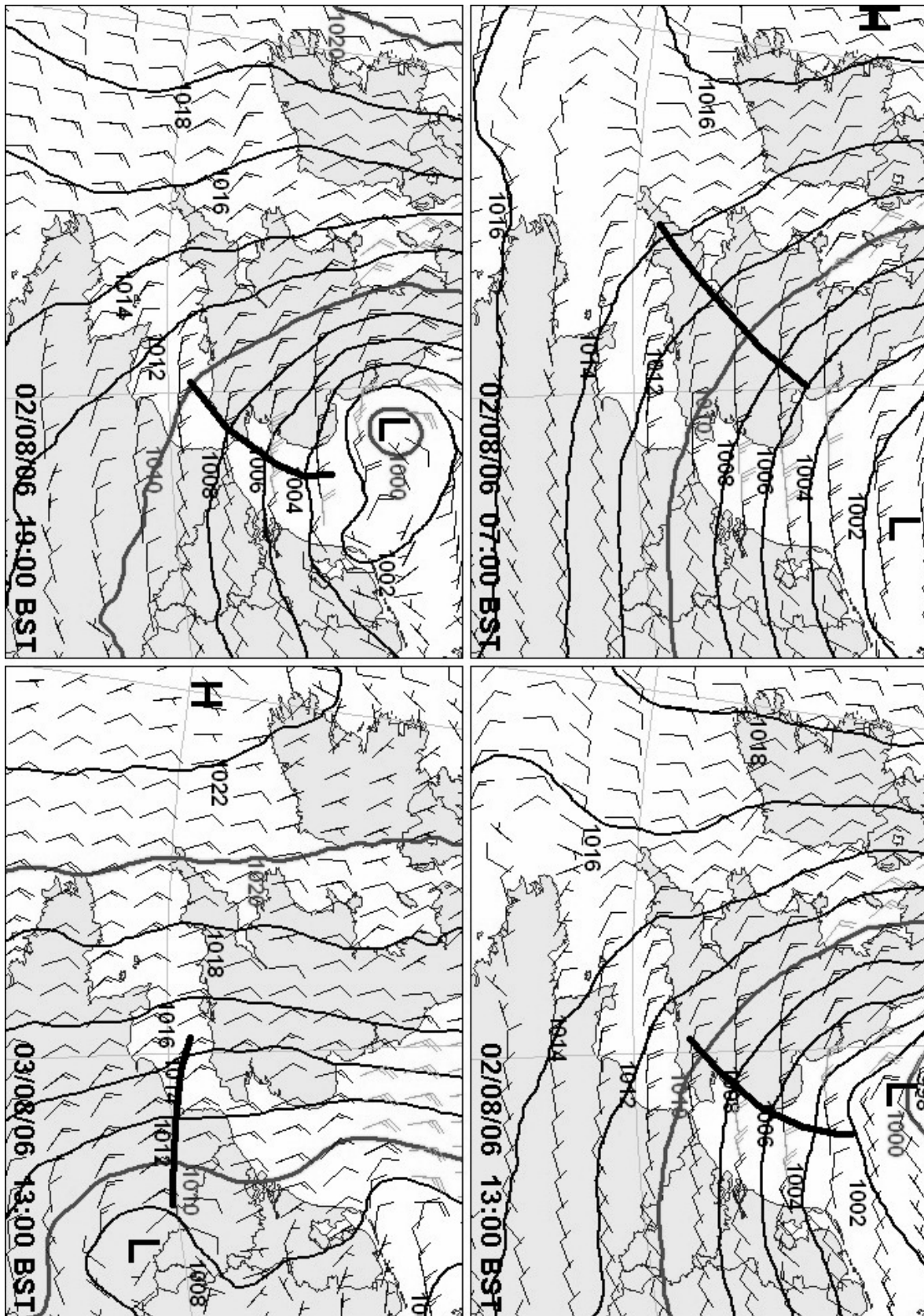
Thursday, 03/08/06

NW-ly 17 → 14 kts, gusts 22 → 19 kts

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SYNOPTICAL DEVELOPMENT 02/08/06 – 03/08/06



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