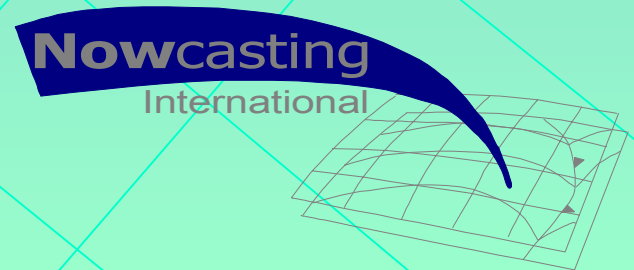


Nowcasting International

Observations, Short term
Forecasts and Technology for
Increased User Confidence

Dr. Mark White



Who is Nowcasting ?

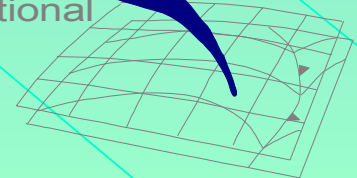
- Private Irish Company
- Owners and Developers of Technology services in the weather space
- Brokers of Weather Data
- Services in 11 countries
 - Offshore Oil and Gas
 - Commercial Marine
 - Government
 - Leisure Marine



Technology Improving Forecasts

- Improved modeling techniques and computing power
- Much improved observations in time, space, availability and reliability (public and private)
- Leading to
 - Improved Accuracy
 - Higher Resolution
 - Increased frequency of forecast calculation
 - Increased confidence
- Presentation and Delivery of data has been slower to evolve.

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New Technology / Traditional Approach

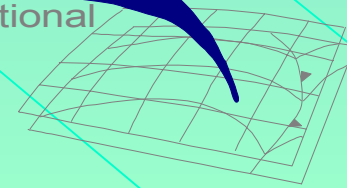
The image displays three overlapping screenshots from a Microsoft Internet Explorer browser window, illustrating different weather forecasting technologies and traditional approaches.

Top Left Screenshot: Synoptic animation
The browser address bar shows <http://www.metoffice.com/offshore/highspeed/synoptic/bwanim.html>. The page title is "Synoptic animation". A navigation menu includes "satellite", "synoptic", "seatemp", "15h forecast", "72h outlook", "route forecast", "fog", "visibility", and "rain rate". A "Your Logo Here" placeholder is visible. Below the menu, text reads: "This sequence shows synoptic charts out to T+84, beginning at midnight (00:01 UTC) today." and "Colour animation | Printable sequence". A control panel shows "Animate" set to "Stopped" at "T + 0". The main content area displays a synoptic chart with pressure systems labeled "L 1004" and "L 1000".

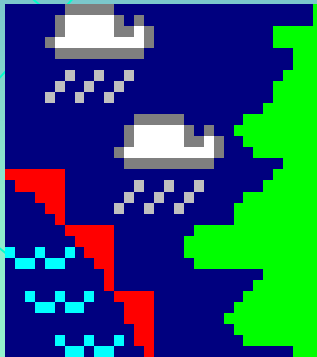
Top Right Screenshot: Swell animation
The browser address bar shows <http://www.metoffice.com/offshore/highspeed/72houtlook/wave.html>. The page title is "Swell animation". A control panel includes "Animate" (Go, Stop, Stopped, Step image, Back, Forward) and a "Swell animation" button. The main content area shows a map titled "SIGNIFICANT WAVE HEIGHT AND 10M WINDS" with red wind vectors and green wave height contours.

Bottom Screenshot: Weather forecast and visibility
The browser address bar shows http://theyr.net/cg/cry/11517ae/f?p=030512:211E:0_Galway. The page title is "Weather forecast Mon May 12 2003 21:00 UTC - Microsoft Internet Explorer". The browser shows a "Weather forecast" for "Galway summer time" on "Monday May 12, 2003 21:00 UTC". A "Visibility" section is also visible. The main content area features a "Beaufort Windspeed" map of Europe with a color scale from 1 to 12. A "meteo" button is present. Below the map, text reads: "The forecast shows wind velocity close to surface by coloured areas, where each colour stands for a particular range. Wind speed range on chosen scale is shown below the color scale. Click inside a circle to see meteograms for that location. The numbers inside circles give the temperature in degrees Celsius at the site." A "Select city on map. Click to display meteograms" tooltip is visible over the map.

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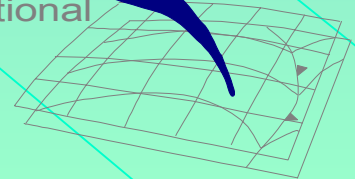


The Nowcasting International Approach

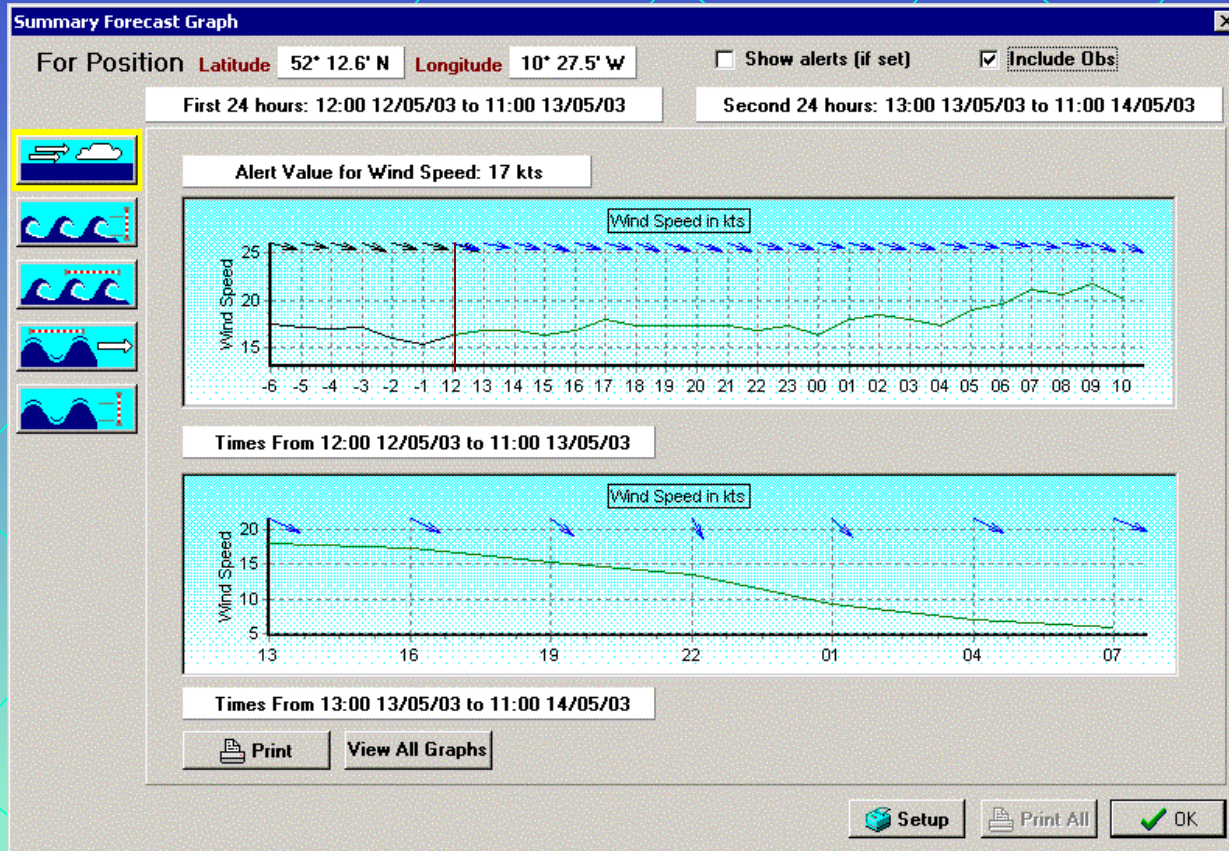


Nowcasting Pro

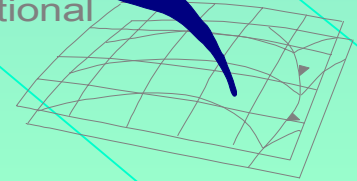
Nowcasting
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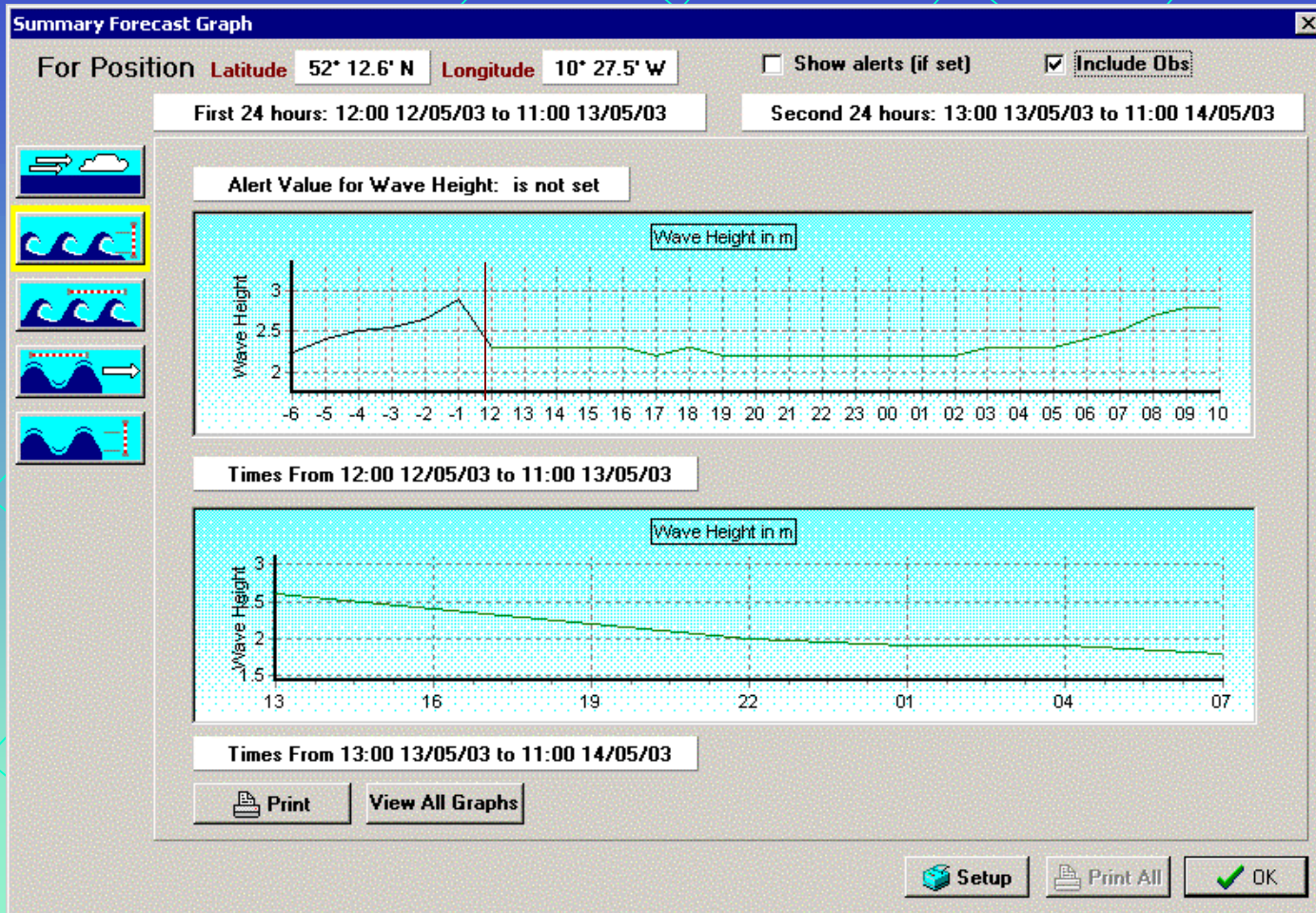
Recent Observations at Location High Confidence



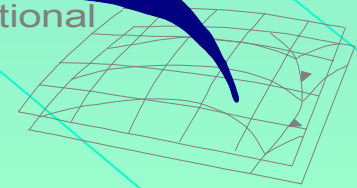
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Recent Observations at Location Low Confidence



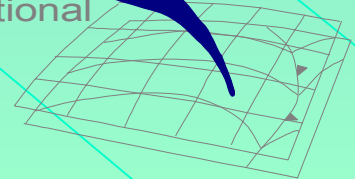
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Developments

- Observations
- Wave Period (existing)
- Surface Currents
- Sub-surface Currents
- Temperature (SST)

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Conclusion

- Building on technology Developments;
- Innovative and co-operative approach to combining improved quality forecasts and innovative delivery with observations.
- Confidence built through intelligent comparisons of nearest observations at site of interest with forecasts
- User focused and driven
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