



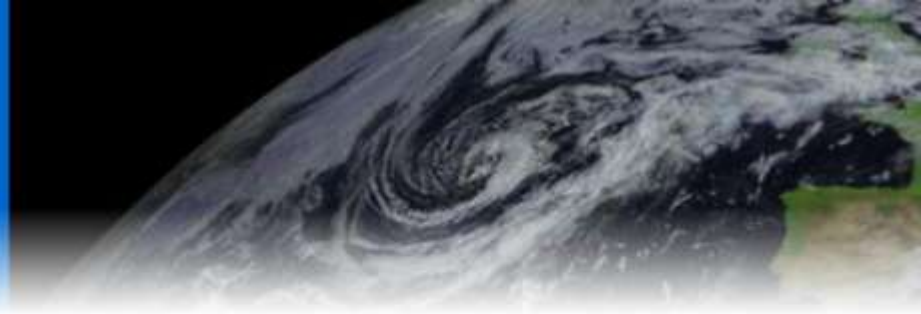
eSurge
Recap – Day 1



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What have we covered?



- Storm surges, what they are, how do they form, what are their impacts?
- Why should we be looking into this issue?
- Our current efforts to understand storm surges
- Our current efforts to provide warnings
- Overviews of what Ocean data are being collected by satellite systems
- Examples of initial efforts to incorporate satellite data into our modelling and forecasting efforts

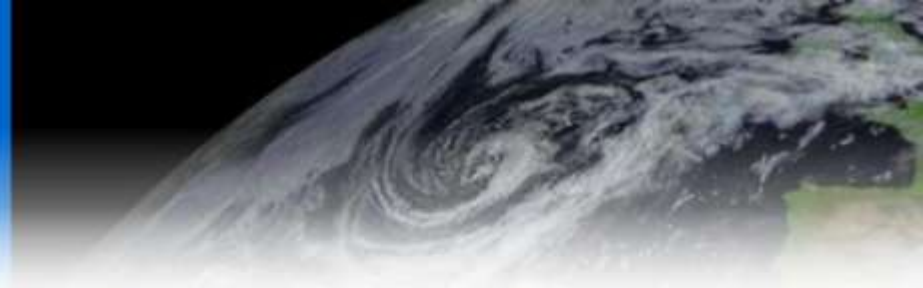


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Key Points

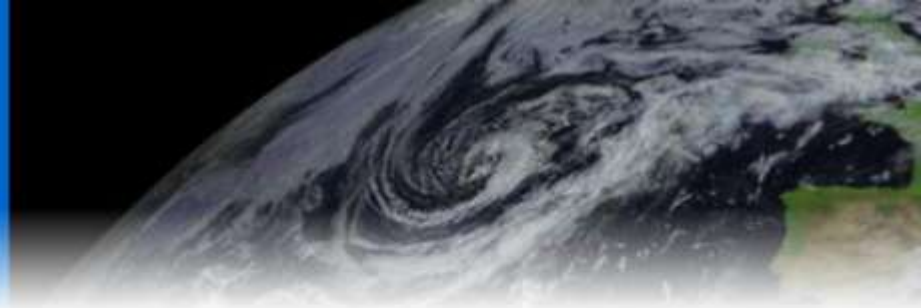


- The existence of Storm surges and their contribution to coastal inundation is an issue, which must be addressed.
- Storm Surges are a component of Coastal Inundation (along with mean sea level rise, waves, tides)
- It is essential to understand the physical mechanisms that give rise to the most extreme storm surges.
- In the future, sea level rise will increase the frequency of any given extreme sea level: storm surge (and wave) warning systems will become even more important for saving lives and protecting property
- High quality forecast needs detailed, high quality input

Key Points

- There are a huge number of satellite resources available for Storm Surge Research and Development, and set to grow!!!
- Assimilation results are still preliminary, but show some improvements.
- The challenge is for users to learn about the data and to learn how to apply the data to their work
- Communication should be directed at several different audiences
- A new generation of Scientists and application specialists, and communications specialists are the future:
 - ALL can use EO data to support their work!
 - ALL should work Collaboratively to maximise potential!!!

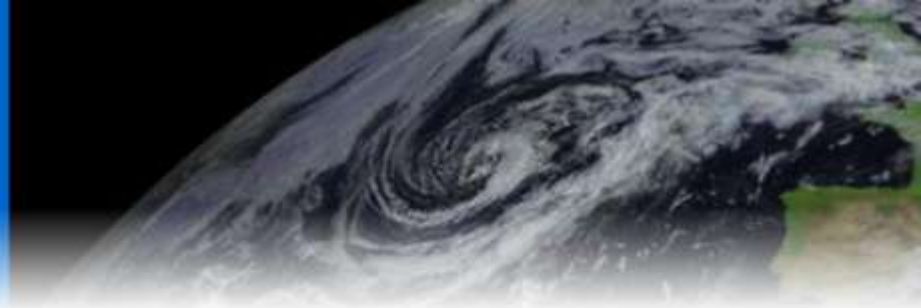
Any questions/clarifications?



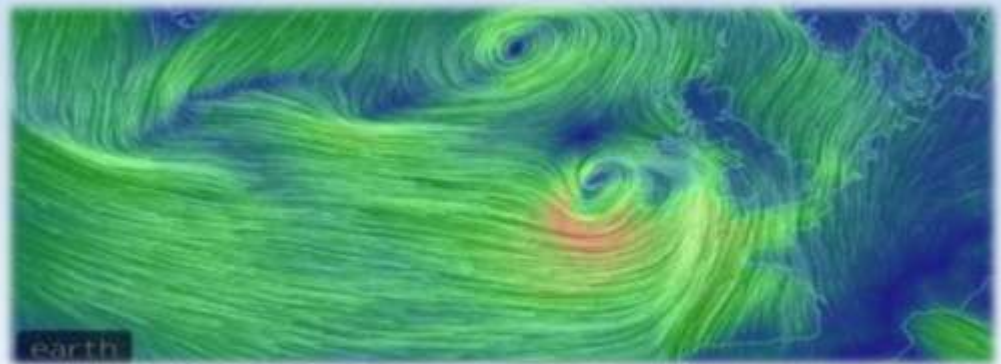
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Tomorrow's POA



- Group focused work
- Interrogate forecasting systems
- Seek opportunities
- Global initiatives
- Global supports for research & progress



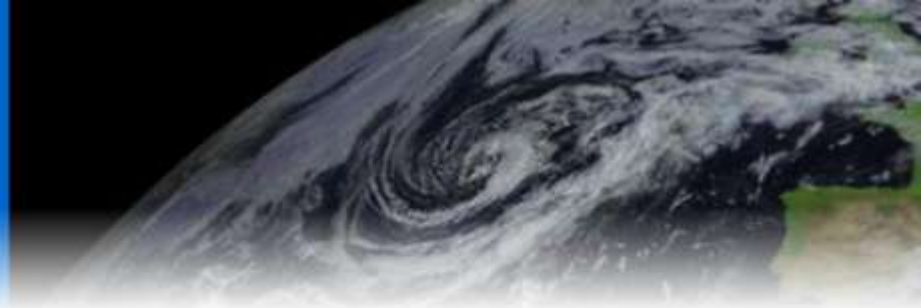
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Tonight's festivities

Blackrock Castle Observatory



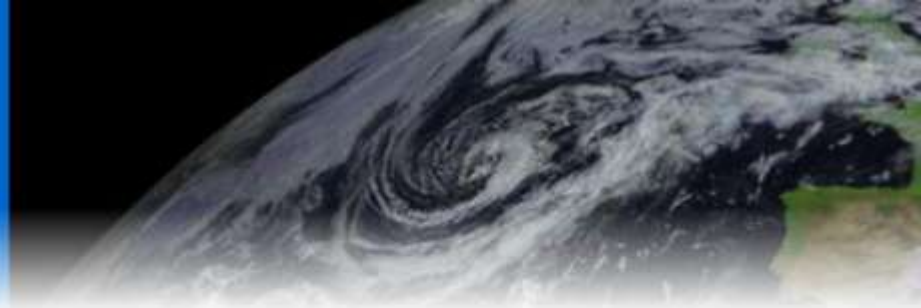
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Storm Surge Network



[http://www.storm-surge.info/
storm-surge-network](http://www.storm-surge.info/storm-surge-network)



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