



HP and Marine Institute to work together on climate change forecasting.

Dublin, February 18, 2009. Scientists working at the Marine Institute in Galway have received a boost with the announcement of a new relationship with HP including the installation of a €240,000 high-performance HP supercomputer jointly funded by the European Regional Development Fund (ERDF). The Marine Institute, Ireland's national agency for marine research, technology development and innovation, will use the computers to run sophisticated climate models of the ocean and atmosphere to predict how the ocean around Ireland could look in the 21st century. This work will help predict the ocean's behaviour, including waves, tides, temperature and salinity as well as looking at how these changes will affect the living resources within the ocean; a crucial part of climate change research.

The deal also marks the beginning of a partnership between the Institute and HP which will see HP worldwide experts working with the Institute's scientists on research projects related to how computer models can be improved in terms of their outputs and how the computer models can run more efficiently on super-computers. The scientific white papers and joint research projects produced from this partnership will be of benefit to researchers across the globe and will help develop our understanding of the oceans.

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The Marine Institute provides information relating to fisheries, aquaculture, ocean energy, search and rescue and storm surge prediction. All data that is collected or generated from forecasting models is freely available to the public on the website www.marine.ie. Previously, the Oceanographic models have been run on a Linux cluster, however, this system did not have the processing power to run the increasingly complex numerical models, which must include ecosystem components, atmospheric models, and provide a centennial forecast for climate change research purposes.

According to Keith Manson, IT Systems & Operations Manager at the Marine Institute; "The introduction of this new High Performance Computing Environment will significantly increase the Marine Institute's ability to predict the effects of Climate change on our oceans. In addition the partnership between the Marine Institute and HP is particularly exciting as it is hoped that it will lead to significant improvements in the oceanographic models used by scientists' world wide".

Mary Lou Nolan, Director of Sales at HP Ireland said, "We are delighted to be part of this project. The work that the Marine Institute is doing is vital to understanding the

forces behind climate change and will play a crucial part as the world searches for a solution. The oceanographic models used require enormous computing power and we will work closely with the Institute to help them adjust their algorithms to get the best results from the supercomputer. At HP we have had success in dramatically reducing the energy that customers need to run our laptops and servers and are proud to be a part of fight against climate change."

~ Notes to editor ~

The Oceanographic Services group in the Marine Institute runs an ocean wave forecast twice weekly² and a near real time 3D numerical ocean model³.

1 - Further information is available on www.hp.com/go/HPESB

2 - www.marine.ie/operational/oceanography/WaveForecast

3 - www.marine.ie/operational/oceanography/OceanForecast

About The Marine Institute

The Marine Institute is the national agency responsible for Marine Research, Technology Development and Innovation (RTDI). It seeks to assess and realise the economic potential of Ireland's 220 million acre marine resource; promote the sustainable development of marine industry through strategic funding programmes and essential scientific services; and safeguard our marine environment through research and environmental monitoring.

The Oceanographic Services group within the Marine Institute is responsible for a broad range of operational oceanographic services including the maintenance of weather buoys off the Irish coast and a tide gauge network.

About HP

HP, the world's largest technology company, provides printing and personal computing products and IT services, software and solutions that simplify the technology experience for consumers and businesses. HP completed its acquisition of EDS on Aug. 26, 2008. More information about HP (NYSE: HPQ) is available at <http://www.hp.com/>.

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