

Séminaire lundi le 17 juin 2019 13:30 / Seminar Monday June 17th 2019 13:30h

Sujet/Subject:

Proposal for Coastal Flood Risk Post-Processing Implementation: RDSPPS (v1.6.0)

Langue/language : Anglais/English

Conférenciers/Lecturers: Devon Telford (Predictions Services Operations-Marine, ICE, East, St. John's NFLD)

Résumé/Abstract:

As a result of the Groundhog Day storm of 1978, the Atmospheric Environment Service (AES) in the Atlantic Region accepted the responsibility for alerting the public whenever coastal sea levels appeared likely to be significantly higher than normal. In the years since, Predictions Services Operations East (PSO-E) has been issuing Storm Surge and High Water Level Warnings as part of the Public and Marine Programs and are both intended to inform the Public and Marine Communities of coastal flooding risk. The Operational Meteorologist and Warning Preparedness Meteorologist in PSO-E coordinate with the Provincial Emergency Management Officers and other Provincial authorities, Parks Canada and Municipalities, warning them when the water level is expected to reach established thresholds based on past events and user requirements. In 2001, the storm surge prediction specialists in Maritime Weather Center, now the Atlantic Storm Prediction Center, developed a "user-friendly" storm surge alert GUI system for operational use in a forecast office. This system automatically warns the forecasters when predicted coastal total water levels (surge plus tide) exceed the predetermined site-specific thresholds. However, with the creation of Shared Service Canada, PSO-E lost its support for the regional based software essential to its forecast operations. With the adaption of the post-processing module to the regional deterministic storm surge prediction system, rdspps, all functionality and utility of the regionally run storm surge GUI can be migrated to a CMOI operationally supported environment.

This presentation will outline how Prediction Services Directorate uses the numerical guidance to assist the public and marine programs, the proposed post processing module as well as examples of output and a case study.