

**SOCIO-ECONOMIC BENEFITS OF  
METEOROLOGICAL AND HYDROLOGICAL SERVICES**

**INVENTORY OF DECISION SUPPORT TOOLS**

<b>ITEM</b>	<b>DESCRIPTION</b>
Sector	Logistics
Sub-sector	Container Terminal Operators
Tool Name	Gust Alarm Webpage
Tool Description	The Gust Alarm Webpage alerts users of severe gusts automatically.
Weather, Climate or Water inputs	Real-time wind data
Specific weather, climate, water data required	3-second wind gust, 10-minute mean wind
Spatial resolution	Around 10 km
Temporal resolution	3 seconds
Delivery methodology	Real-time data
Frequency of data requirement	Updated every 10 minutes
Other	Nil
Detailed Tool Description	The Gust Alarm Webpage provides audio and visual alerts to users when the observed maximum gust for the past 10 minutes at any one of the pre-defined anemometer stations within the territory exceeds pre-set thresholds. Two threshold levels are set according to the user's requirement, the first level serving as an initial alert and the second serving as a response trigger.
Spatial resolution	Regional areas
Temporal resolution	10 minutes
Delivery methodology	Available on a dedicated webpage for the user with password protection.
Frequency of provision	As required.
Other	Nil
Benefits of tool application	The tool serves as a monitoring tool of gusts in the vicinity of the user's area of interest. It provides timely information of high gusts

	associated with severe weather in the upstream region of the area of operation and helps users to manage the risks of wind-sensitive operations.
Possible future advances	To include a forecast element on high gusts associated with squall line using nowcasting techniques.
Comments	Nil
URL	Nil
Others	Nil