Cheatography

EIDWS - METOC Cheat Sheet by weatherman22 via cheatography.com/20977/cs/3826/

Defense Meteorological Satellite	Wave Height	Small Craft Warning	Tropical Storm
Program - DMSP	The vertical distance from the crest	Winds Sustained at 18-33 knots	wind speeds must be between 34 and 63 knots. At this point the tropical storm is given a name.
LEO, Polar Orbiting Satellites	of a wave to the trough of the wave	Forecasted for harbors and inland	
6 satellites in orbit	Flood	waters	
Wind Direction	The current that flows toward the shore with a rising tide	Tropical Cyclone Conditions of Readiness - TCCOR	
Average direction from which wind is blowing	3 Types of Currents	TCCOR 5 - Destructive winds are possible within 96 hours	Cold Eddy Cold Eddies form on the south side
Air Mass	Open Ocean	, TCCOR 4 - Destructive winds are possible within 72 hours	of the Gulf Stream and maintain a counterclockwise circulation
Body of Air over a Large Area Takes on characteristics of the Underlying Surface	Littoral Rip	TCCOR 3 - Destructive winds are possible within 48 hours	Bioluminescence
Temperature and Moisture	Spilling Breaker	TCCOR 2 - Destructive winds are anticipated within 24 hours	The types are sheet, spark, and glowing ball.
Characteristics are the Same	Occur w/ Gentle Flat Beaches	TCCOR 1 - Destructive winds are occurring or anticipated within 12	oceans is sheet-type
Tropical Depression An organized system of clouds and	Plunging Breaker	hours	Spark-type displays are created by large numbers of crustaceans
thunderstorms with a defined, closed surface circulation and maximum sustained winds of less	Occur w/ Moderate to Steep sloping Beaches	Geostationary Operational Ent'l Satellites - GOES	Glowing ball displays are seen most frequently in warmer waters.
than 34 knots	Four Major Ocean Sediments	24/7 Coverage over the same Geographic Region	Luminescent jellyfish cause many glowing-ball displays
Ocean Eddies	Pelagic	Monitors weather systems and	Littoral Longshore Currents
Independent circulations of cold or warm water	Glacial Marine Volcanic	storms 4 GOES Satellites in Orbit	Caused by Waves Approaching the Beach at an Angle
Generally found on either side of strong currents such as the Gulf	Pressure	Relative Humidity	Increase Velocity with Increased Breaker Heights
Stream or Kuroshio Used tactically by submarines because of the sound propagation differences that exist inside and	Sound Speed increases 2 feet/second for every increase in depth of 100 feet	Percentage of the amount of water in the air compared to how much water can actually be held based on temperature & pressure	Steep Beaches have stronger currents
outside the eddie circulations	Dominant controller of speed below 1000 feet in the ocean	Warm Front	

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Surging Breaker	Polar Operational Ent'l Satellites	Wave Period	the Astronomical Almanac
Occur w/ Very Steep Sloping Beaches and are dangerous for Landing Craft	- POES A.K.A. TIROS-N Satellites Collects Data Globally	The time it takes for a comple wave cycle (crest to crest or t to trough) to pass a given poin	the Sun, Moon, planets, and satellites, data for eclipses and
3 Thermal Layers of the Ocean Mixed/Surface Layer Thermocline	There are 6 POES Satellites in orbit Wind Speed	Open Ocean Currents Major Currents like the Gulf S and Kuroshio	other astronomical phenomena for a given year Stream Nat'l Polar Orbiting Ent'l Satellite System-NPOESS
Deep Layer	Average rate of air motion Measured in nautical miles/hour or	3 Breaker Types	Will Replace the POES and DMSP
Sound Speed increases 4 feet/second for every increase in	Knots Cold Front	Spilling Plunging Surging	Tropical Rainfall Measuring Mission-TRMM
salinity of 1ppt Effects are greatest for Ocean water in areas of high evaporation	Displaces Warm Air at the Surface Restricted Visibility	Ocean Fronts	Joint venture btwn NASA and Japanese Nat'l Space Development Agency
and high influxes of fresh water Gale Warning	Prevailing Visibility falls below 7 Nautical Miles or 10 Statute Miles	Interface btwn 2 Water Masse Different Temperatures and Salinities	es of Research the water cycle in the atmosphere
Winds Sustained at 34-47 knots	Hurricane/Typhoon	Mixed/Surface Layer	Fronts Transitions between two Air
Forecasted for harbors, inland waters, ocean areas, installations, and air fields	Wind speeds must be at least 64 knots	Isothermal Temperature with From the ocean surface to ab	Depth Masses
the Nautical Almanac	Warm Eddy Warm Eddies form on the north	Temperature	Suspension of small water droplets or ice crystals in the air that reduce
Contains the following data tabulated at hourly intervals to a precision of 0.1 arc minute: the Greenwich hour angle and declination of the Sun, Moon, and navigational planets; the Greenwich hour angle of Aries; positions of the navigational stars; rise and set times of the Sun and Moon for a range of latitudes	side of the Gulf Stream and drift into the colder waters of the Labrador Current maintaining their clockwise rotation	Primary Controller of Sound S in the top 1000 feet of the occ Sound Speed increases 6 feet/second for an increase in degree centigrade	Thunderstorms - TS
	Sea Waves Also known as wind waves, are waves generated by the wind in the local area	Storm Warning Winds Sustained at 48 knots greater	
		Forecasted for harbors, inland waters, ocean areas, installat and airfields	
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Bathythermograph - BT

The measurement and recording of subsurface water temperature at various depths

BT data is the critical factor in determining the sound velocity profile (SVP) of a particular ocean area

Swell Waves

Waves that have moved away from the area in which they were formed

Ebb

The current that flows away from the shore with a falling tide

Rip Currents

NOT Associated w/ Tides

Caused by return flow of water from the beach

Form at the end of a beach where land juts out into the water

5 Major Ocean Provinces

Continental Shelf

Continental Slope

Continental Rise

Ocean Basins

Mid-Ocean Ridges

Thermocline

Describe by its rapid decrease in temperature with depth from the layer above it

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METOC & GEOINT

METOC data is a layer of Geospatial Intelligence and is critical to planning and operations in the joint environment

Severe Thunderstorm Warning

TS are w/in 10NM or an hour away

Gusts of 50 kts or Greater = 3/4" Hail and/or Tornadoes