



Tropical Cyclone *Quick Reference Guide* 2013

Fleet Weather Center - Norfolk, 9141 Third Ave, Norfolk VA 23511-2394
 Operations Watchfloor: 757-444-7750 (DSN 564-7750)

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(Public) <http://www.usno.navy.mil/NOOC/fwc-n> (PKI) <https://nepoc.oceanography.navy.mil/portal/web/fwcn>
 (SIPR) <http://nepoc.oceanography.navy.smil.mil/portal/web/fwcn>



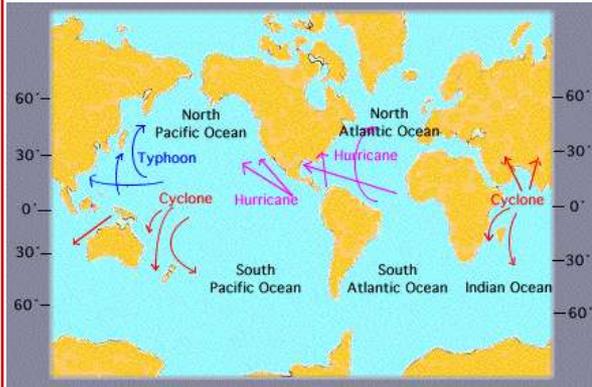
Atlantic Tropical Cyclone Season: 01 June - 30 November

East Pacific Tropical Cyclone Season: 15 May - 30 November

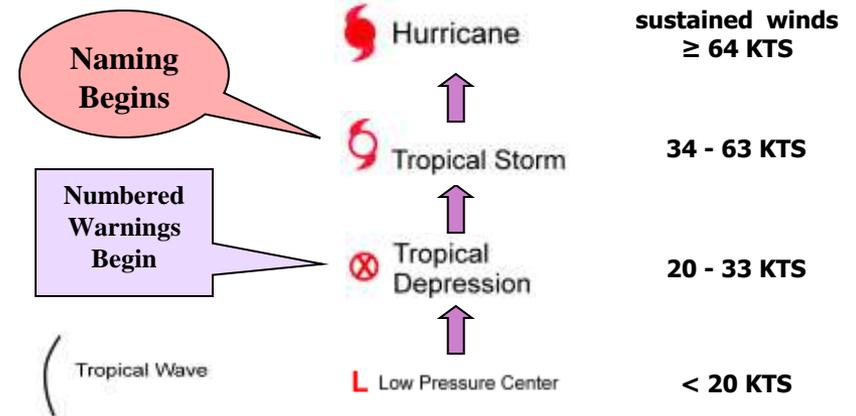
2013 Atlantic Tropical Cyclone Names

Andrea	Karen
Barry	Lorenzo
Chantal	Melissa
Dorian	Nestor
Erin	Olga
Fernand	Pablo
Gabrielle	Rebekah
Humberto	Sebastien
Ingrid	Tanya
Jerry	Van
	Wendy

Tropical Cyclones: Development Areas and Movement



Stages of Tropical Cyclone Development



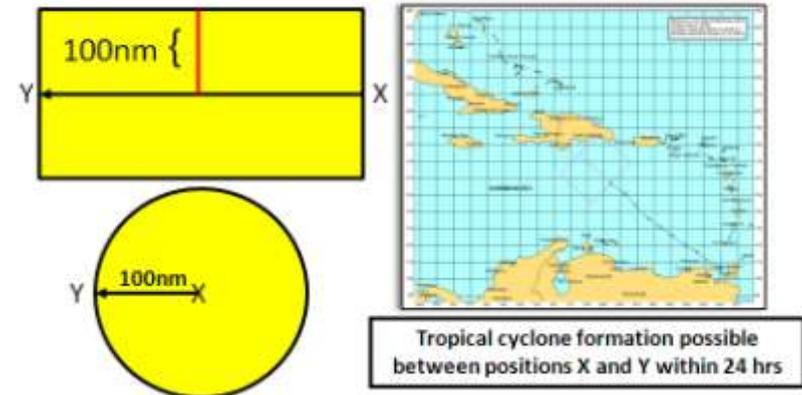
Saffir-Simpson Scale - Hurricane Destruction Potential

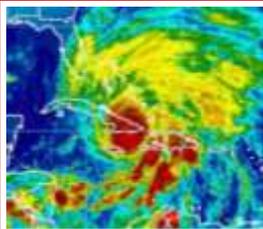
Category	Sustained Wind Speed		Damage
	(knots)	(mph)	
1	64 - 82	74 - 95	Minimal
2	83 - 95	96 - 110	Moderate
3	96 - 113	111 - 130	Extensive
4	114 - 135	131 - 155	Extreme
5	> 135	> 155	Catastrophic

NOTE: Categories 3, 4, & 5 are considered **MAJOR** hurricanes

Tropical Cyclone Formation Alert (TCFA)

TCFAs provide early notification of likely TC development to the Fleet and help minimize the number of OTSR Advisories and Diverts





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Tropical Cyclone Conditions of Readiness (TC-CORs)

(time until the forecast onset of destructive winds)*

COR V	96 hours
COR IV	72 hours
COR III	48 hours
COR II	24 hours
COR I	12 hours

* Destructive winds are defined as sustained winds \geq **50 KTS**

Fleet Sortie Conditions

Charlie - Prepare to sortie within **48** hours
Bravo - Expected sortie within **24** hours
Alpha - Commence sortie to sea

Aircraft Evacuation Status Reports

(required at the following times)

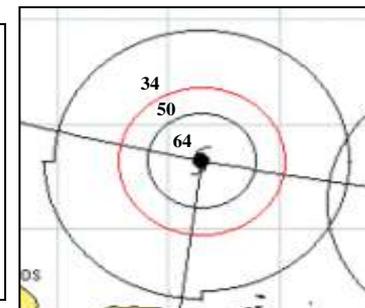
72 hours
48 hours
24 hours
12 hours

Environmental Requirements for Tropical Cyclone Development

- **Sea Surface Temperature > 26 C (78 F)** with sufficient depth (approx 200ft) of warm water
- **Pre-existing disturbance** to trigger thunderstorm activity (frontal boundary, easterly wave, distal low pressure, etc...)
- **Divergence** at the Upper Levels (above the 400 mb level or about 24,000ft)
- **Coriolis Force** (Ample Planetary Vorticity) will generally be sufficient at latitudes poleward of 5 degrees North/South
- **Weak (< 20kts) vertical wind shear** between the surface and upper troposphere
- Relatively **moist layers at the mid-levels** (about the 700mb level / 10,000 ft)
- System embedded in a potentially **unstable air mass**

KEY TO TROPICAL CYCLONE WARNING GRAPHICS

The **black** and **red** lines around a projected tropical cyclone track indicate the **34-knot, 50-knot, and 64-knot wind radii** associated with the storm at a given point. The outermost black line indicates the **34-knot** radius; the red line indicates the **50-knot** radius; and the inner black line shows the **64-knot** radius. Not all tropical cyclones will have peak central winds that reach the **50-knot** or **64-knot** threshold; as a result, weaker storms may not have a **50-knot** or **64-knot** wind radius. The size of the storm's forecast wind field will be indicated by the radius of each quadrant in the associated cyclone warning message.



NFAAS standardizes a method for the Navy to account, assess, manage, and monitor the recovery process for personnel and their families affected and/or scattered by a wide-spread catastrophic event. The NFAAS provides valuable information to all levels of the Navy chain of command, allowing commanders to make strategic decisions which facilitate a return to stability.

NFAAS allows Navy Personnel to do the following:

- Update Contact/Location information
- Complete Needs Assessment
- View Reference Information

NFAAS Website --- <https://www.navyfamily.navy.mil>