



# Tropical Cyclone *Quick Reference Guide* 2018

Fleet Weather Center - Norfolk, 9141 Third Ave, Norfolk VA 23511-2394

Operations Watchfloor: 757-444-8786 (DSN 564-7750)

NIPR email: [fwc.nrfk.cdo.02.fct@navy.mil](mailto:fwc.nrfk.cdo.02.fct@navy.mil)

SIPR email: [fwc-norfolk.cdo@navy.smil.mil](mailto:fwc-norfolk.cdo@navy.smil.mil)

(Public) <http://www.metoc.navy.mil/fwcn/fwcn.html>

(PKI) <https://weather.navy.mil/NepocSupport/> (SIPR) <https://weather.navy.smil.mil/NepocSupport>



**Atlantic** Tropical Cyclone Season: 01 June - 30 November

**East Pacific** Tropical Cyclone Season: 15 May - 30 November

## 2018 Atlantic Tropical Cyclone Names

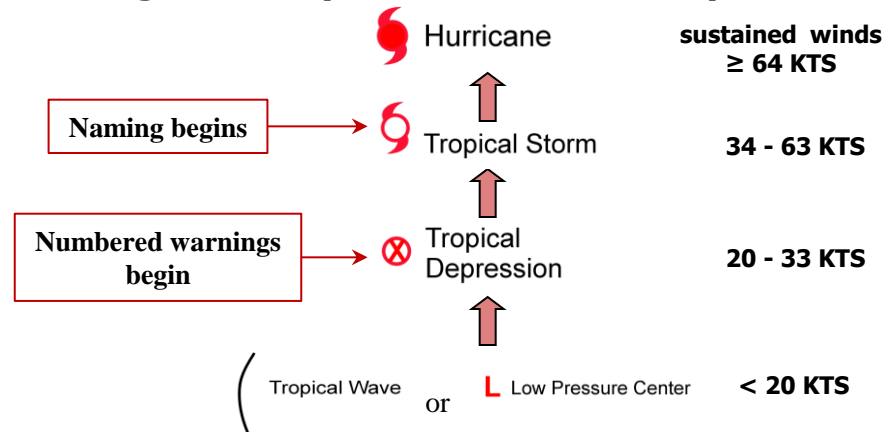
<b>Alberto</b>	<b>Leslie</b>
<b>Beryl</b>	<b>Michael</b>
<b>Chris</b>	<b>Nadine</b>
<b>Debby</b>	<b>Oscar</b>
<b>Ernesto</b>	<b>Patty</b>
<b>Florence</b>	<b>Rafael</b>
<b>Gordon</b>	<b>Sara</b>
<b>Helene</b>	<b>Tony</b>
<b>Isaac</b>	<b>Valerie</b>
<b>Joyce</b>	<b>William</b>
<b>Kirk</b>	

## Saffir-Simpson Scale Hurricane Destruction Potential

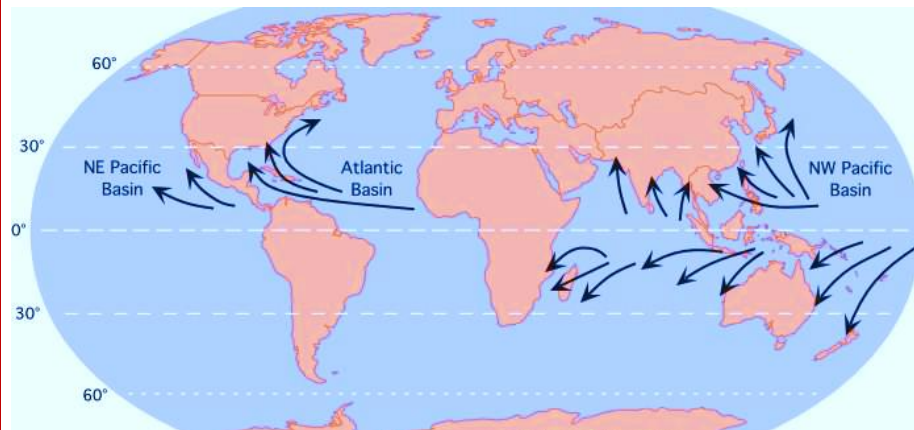
Category	Sustained Wind Speed (knots)	Sustained Wind Speed (mph)	Damage
1	64 - 82	74 - 95	Minimal
2	83 - 95	96 - 110	Moderate
3	96 - 112	111 - 129	Extensive
4	113 - 136	130 - 156	Extreme
5	≥ 137	≥ 157	Catastrophic

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

## Stages of Tropical Cyclone Development

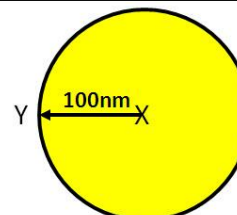
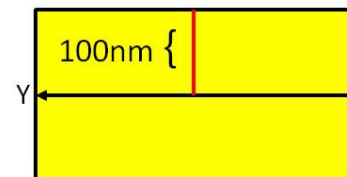


## Tropical Cyclones: Development Areas and Movement



## 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



Tropical cyclone formation possible between positions X and Y within 24 hrs



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(PKI) <https://weather.navy.mil/NepocSupport/> (SIPR) <https://weather.navy.smil.mil/NepocSupport>



## Tropical Cyclone Conditions of Readiness (TC-CORs)

(time until the forecast onset of destructive winds\*)

<b>COR V</b>	<b>96 hours</b>
<b>COR IV</b>	<b>72 hours</b>
<b>COR III</b>	<b>48 hours</b>
<b>COR II</b>	<b>24 hours</b>
<b>COR I</b>	<b>12 hours</b>

\* 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)

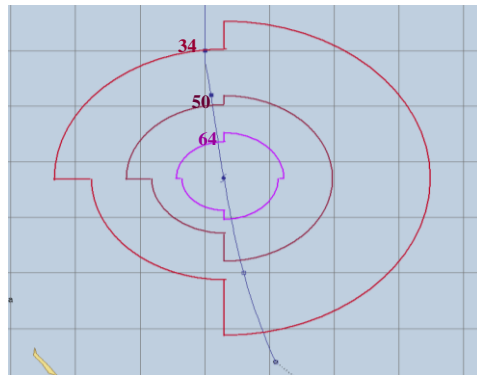
<b>72 hours</b>
<b>48 hours</b>
<b>24 hours</b>
<b>12 hours</b>



## KEY TO TROPICAL CYCLONE WARNING GRAPHICS

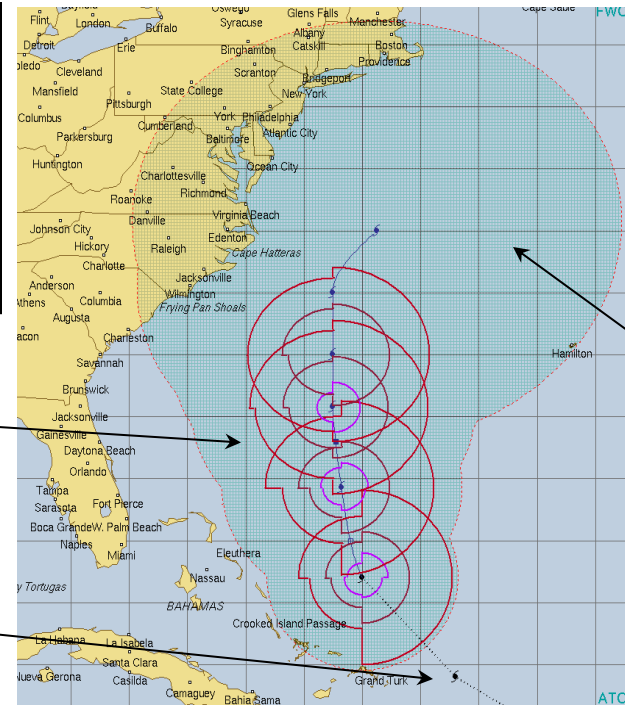


The lines around a projected tropical cyclone track indicate the **34-knot, 50-knot, and 64-knot wind radii** associated with the storm at a given point. The outermost line indicates the **34-knot** radius; the next line indicates the **50-knot** radius; and the inner line shows the **64-knot** radius.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



Forecast tropical cyclone positions and wind radii indicated in magenta and burgundy.

Past six-hourly tropical cyclone positions indicated in black.



The shaded area outlined by a dashed line represents **forecast uncertainty**. This "cone" depicts the track and intensity forecast uncertainty for days 1 through 5 based on the National Hurricane Center's five-year average forecast error. Statistical data indicates that the entire 5-day path of tropical storm force winds (winds > 34 knots) will occur within the cone about 70% of the time.