

TABLE 11. BEAUFORT SCALE OF WIND FORCE

BEAUFORT NUMBER		NAUTICAL MILES PER HOUR
Zero.....	Calm.....	0- 1
One.....	Light airs.....	2-
Two.....	Light breeze.....	- 6
Three.....	Gentle breeze.....	7-10
Four.....	Moderate breeze.....	11-16
Five.....	Fresh breeze.....	17-21
Six.....	Strong breeze.....	22-27
Seven.....	High wind (moderate gale)....	28-33
Eight.....	Gale (fresh gale).....	34-40
Nine.....	Strong gale.....	41-47
Ten.....	Whole gale.....	48-55
Eleven.....	Storm.....	56-65
Twelve.....	Hurricane.....	above 65

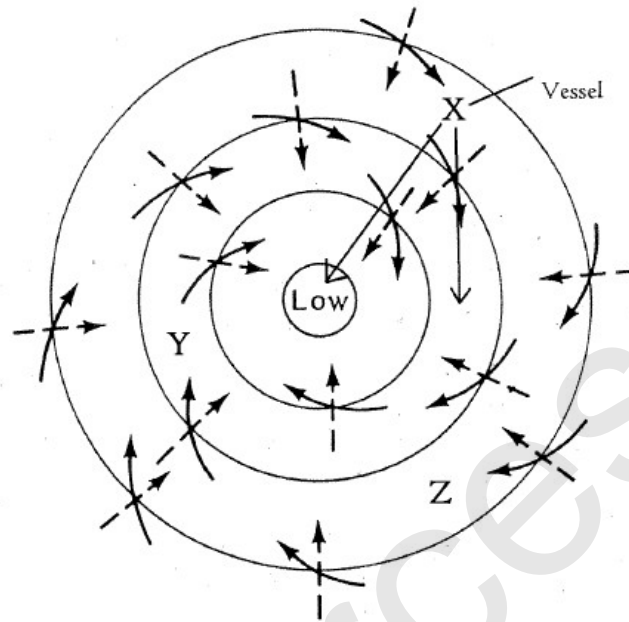
TABLE 12. SCALES ON STATE OF SEA, OF SWELL,
AND VISIBILITY

STATE OF SEA	
Description	Height of wave crest to trough
Calm.....	0.....
Smooth.....	Less than 1 foot.....
Slight.....	1 to 3 feet.....
Moderate.....	3 to 5 feet.....
Rough.....	5 to 8 feet.....
Very rough.....	8 to 12 feet.....
High.....	12 to 20 feet.....
Very high.....	20 to 40 feet.....
Precipitous.....	Over 40 feet.....
Confused.....

CHARACTER OF SWELL			
Scale	Description	Scale	Description
0	No swell.	5	Moderate swell, long.
1	Low swell, short or average length.	6	Heavy swell, short.
2	Low swell, long.	7	Heavy swell, average length.
3	Moderate swell, short.	8	Heavy swell, long.
4	Moderate swell, average length.	9	Confused swell.

beaufortscale_wm

Cyclonic Rotation in the Southern Hemisphere



→ Direction of Wind
 ---→ Center of low relative to wind

X - designates the vessel in the question facing northwest wind

Y and Z - are provided as examples to show center of low when experiencing different winds





buysballot

Coastal Warning Display Signals

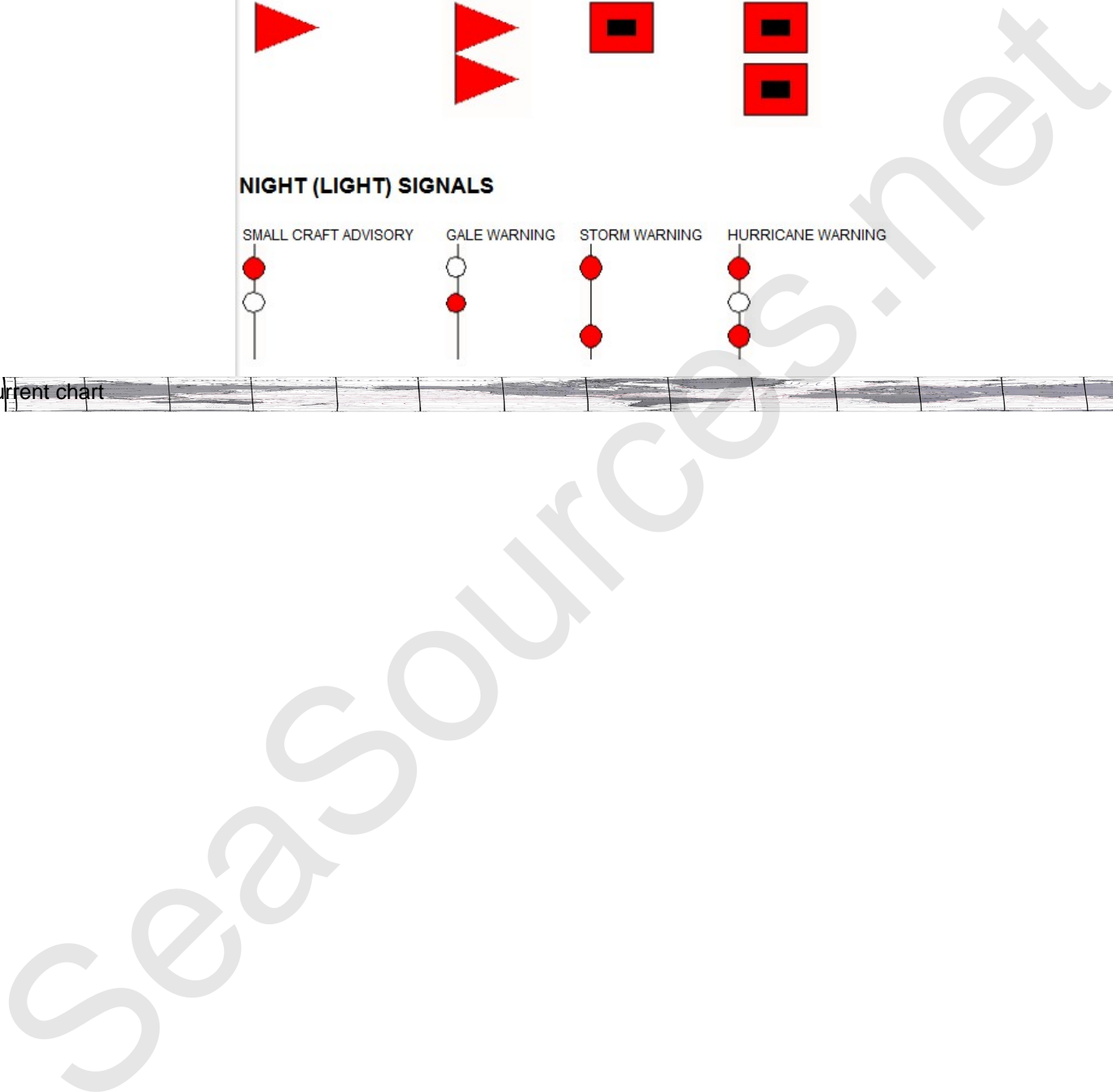
DAYTIME SIGNALS

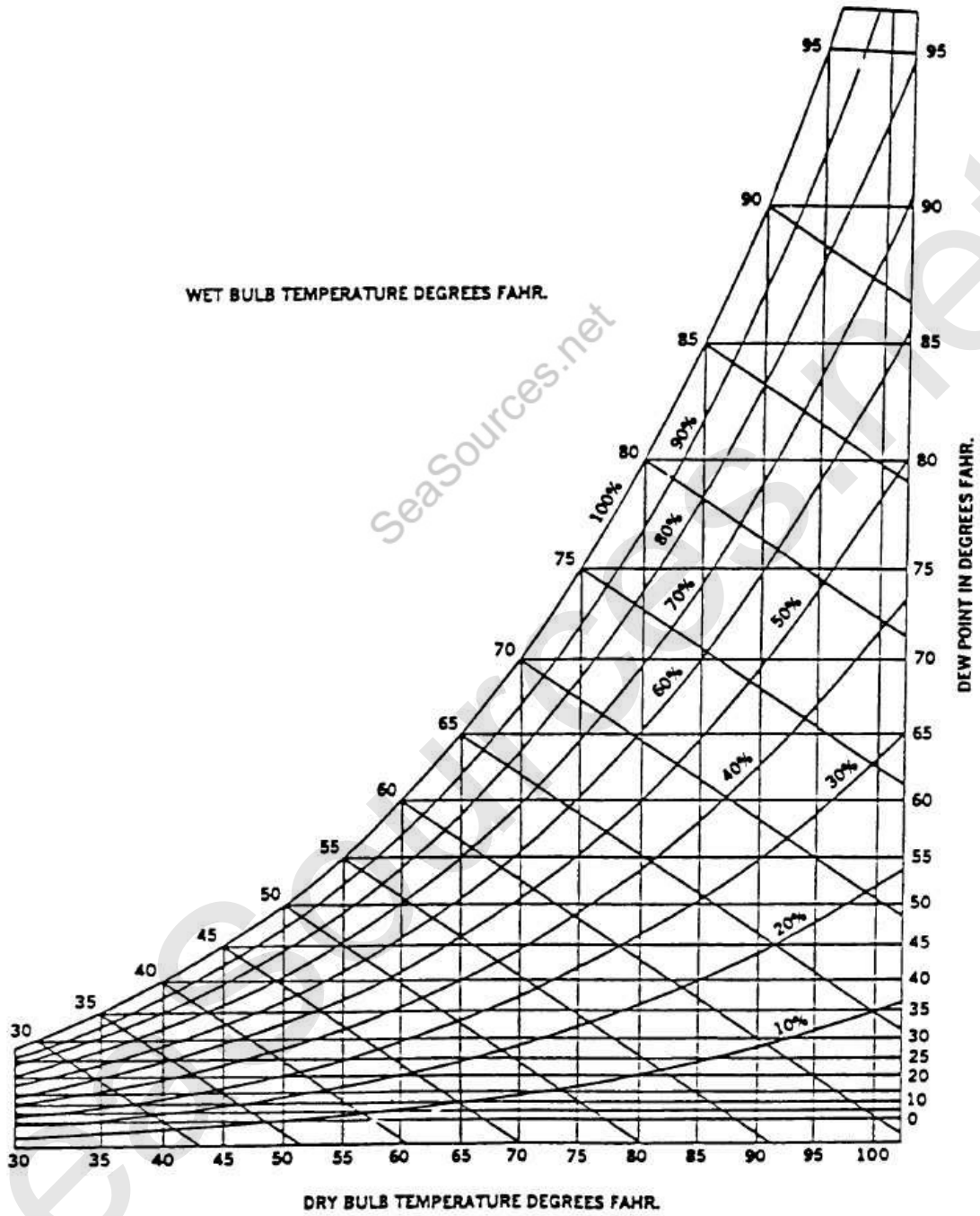
SMALL CRAFT ADVISORY	GALE WARNING	STORM WARNING	HURRICANE WARNING
			

NIGHT (LIGHT) SIGNALS

SMALL CRAFT ADVISORY	GALE WARNING	STORM WARNING	HURRICANE WARNING
			

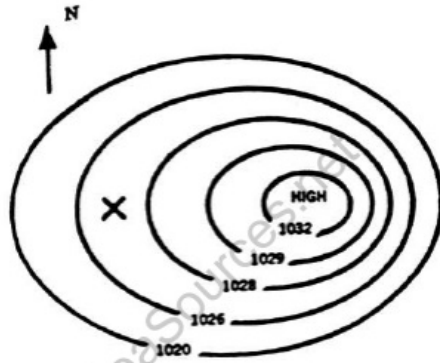
current chart





D008DG

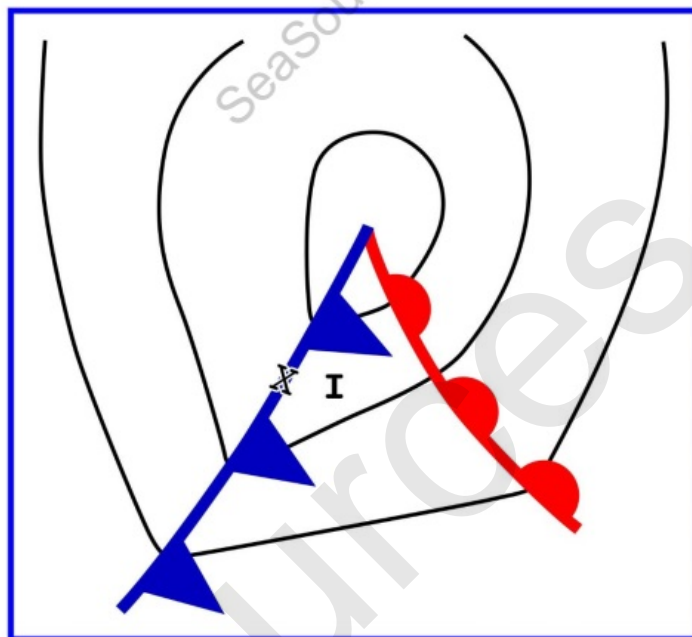
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D009NG

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D013NG



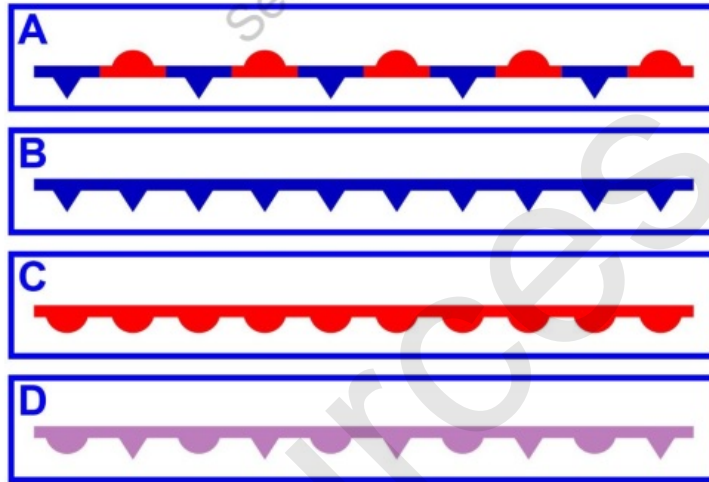
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D014NG

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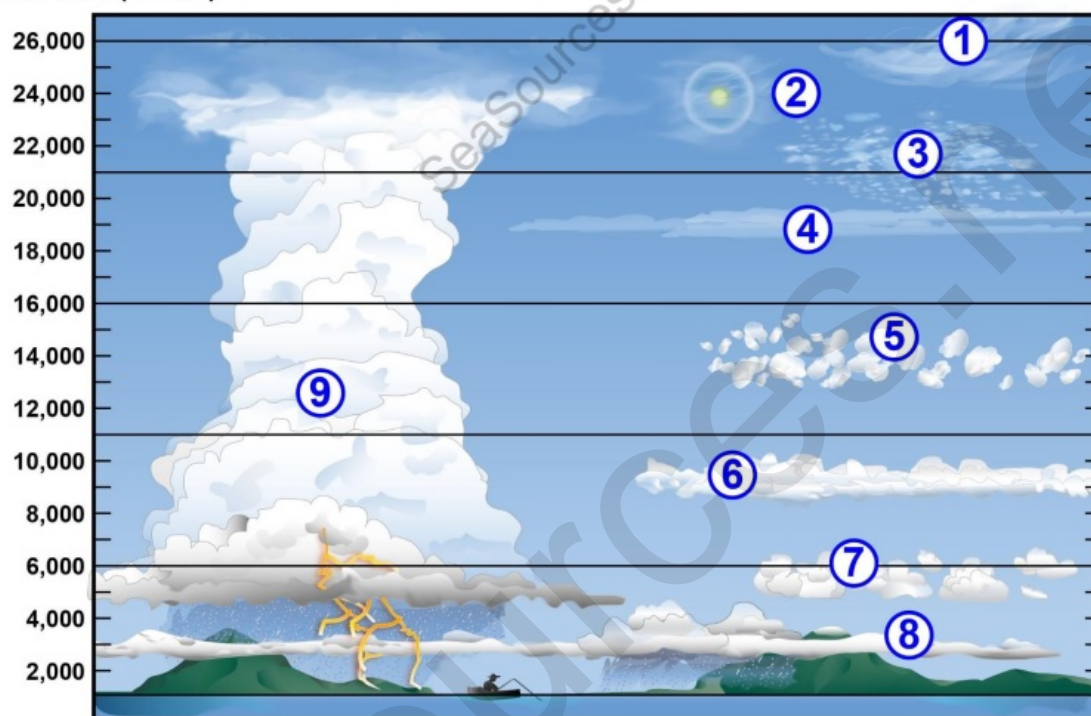
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D039NG

Altitude (in feet)



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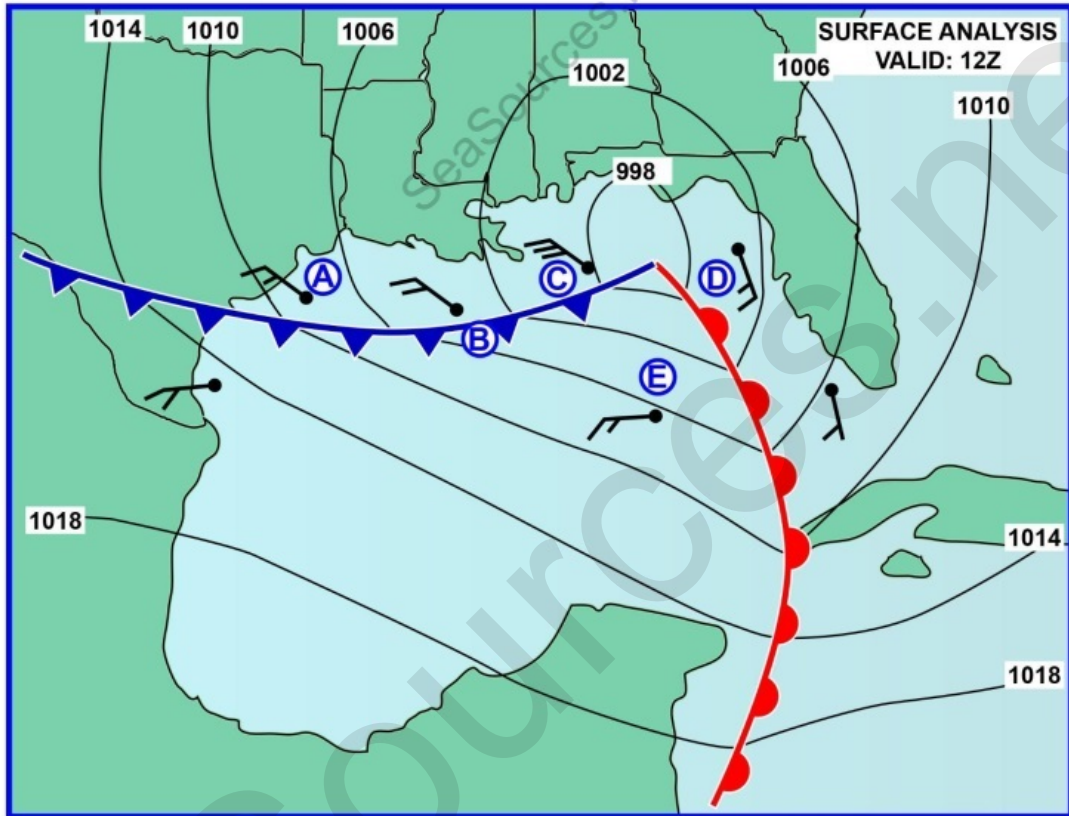
D041NG

WS FORM 9-80 (5-94) PRES. BY WMO DIRECTIVES				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE		
WEATHER REPORT FOR IMMEDIATE TRANSMISSION						
NO.	SHIP NAME	DATE SENT (UTC)	TIME SENT (UTC)	STA. CALLED	FREQUENCY	
ADDRESSES						
U.S. Coast Guard: No address needed, start with BBXX indicator and ship's call sign.						
INMARSAT Standard A: Select—Coast Earth Station (CES), routine priority, duplex telex channel, and initiate call. When GA + is received, select 41 +. Upon receipt of answerback, NWS OBS MHTS, send the weather report starting with the BBXX indicator and ship's call sign. End the report with 5 periods. Try to limit INMARSAT call time to 30 seconds. Standard C: To establish special access code 41, see manufacturers recommended instructions for set-up, or the Mariners Weather Log Summer, 1994, or later editions.						
U.S. commercial and foreign radio stations: To: OBS METEO (get address from "Radio Stations Accepting. . . ."). Start with BBXX indicator and ship's call sign and combine the remaining numbers into 10-character groups.						
INDICATOR	CALL SIGN	YYGG _w	99L ₂ L ₁ L ₂	QL ₅ L ₄ L ₃ L ₂ L ₁	i _R i ₁ hVV	Nddff
BBXX			99		4	
00ff	1s _n TTT	2s _n T _d T ₂ T _d	4PPPP	5a _{ppp}	7wwW ₁ W ₂	8N ₁ C ₁ C ₂ M ₁ C _H
222D _v V ₂	0s _n T _w T _w T _w	2P _w P _w H _w H _w	3d _{w1} d _{w1} d _{w2} d _{w2}	4P _{w1} P _{w1} H _{w1} H _{w1}	5P _{w2} P _{w2} H _{w2} H _{w2}	6I ₁ E ₁ E ₂ R ₁
8S _w T _b T _b T _b	ICE	c ₁ S _b D ₁ Z ₁	PLAIN LANGUAGE			TRANSMITTED BY
No Government Administration, or Company or person employed in the forwarding and delivery of this message shall be liable for any loss or damage arising from failure to transmit or to deliver the said message or from any neglect, delay, error or omission in the transmission thereof.						

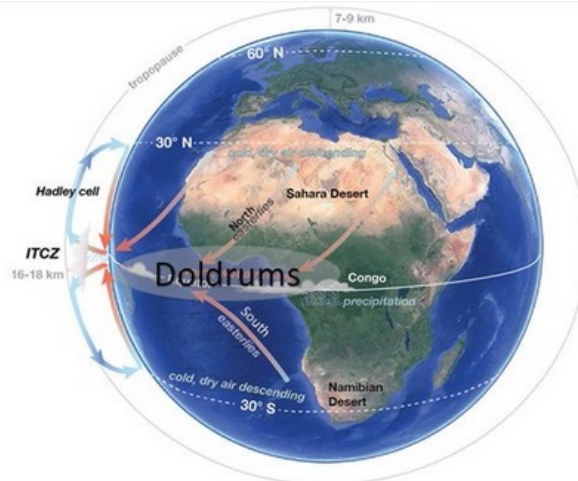
Supersedes NOAA Form 72-4A (1-82) which should be destroyed.

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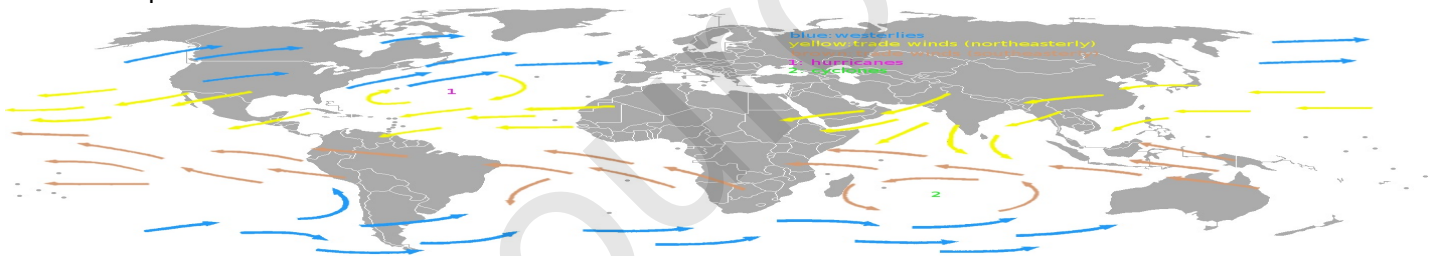


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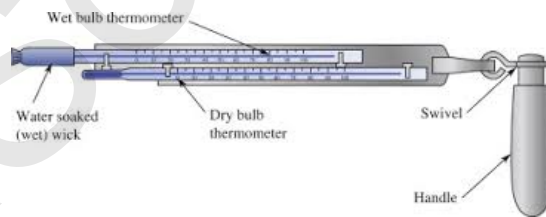


*Doldrums (ITCZ) the basics: The area close to the equator where the northeast trade winds meet southeast trade winds, sort of cancelling each other out and creating an area of unstable weather
ITCZ= Inter Tropical Convergence Zone*

doldrummap



map_prevaling_winds_on_earth



sling psychrometer