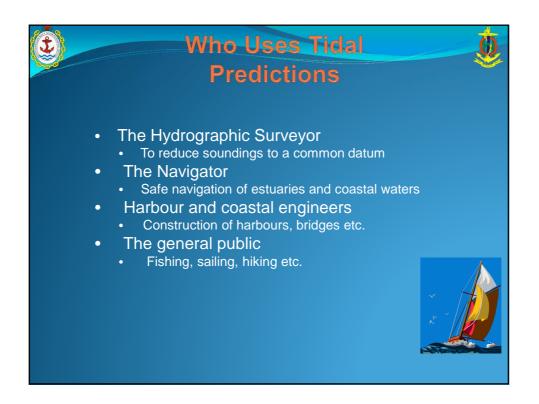
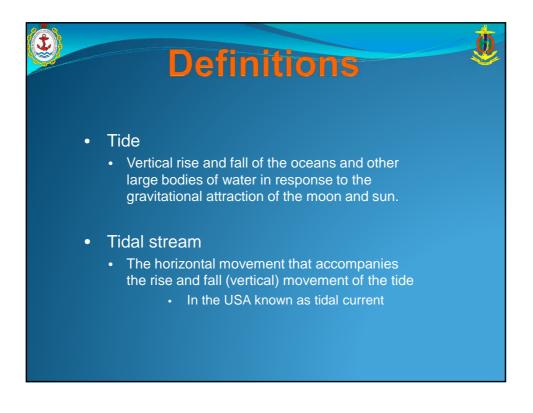
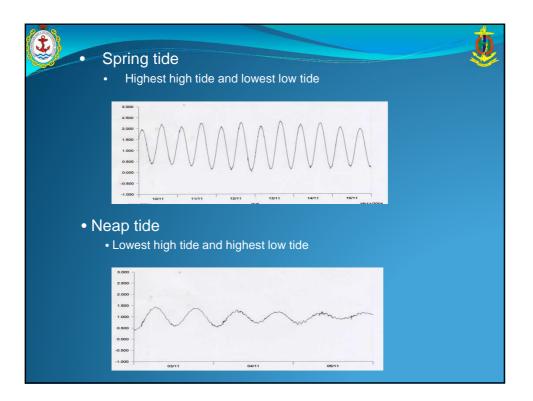
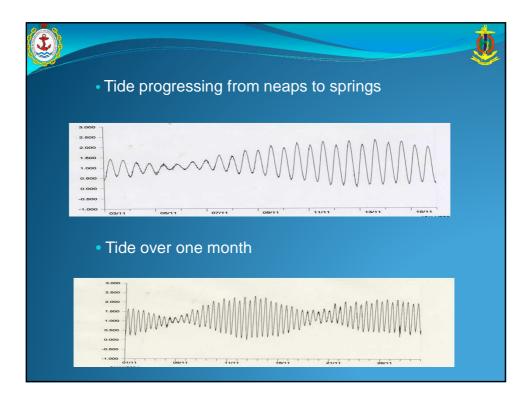


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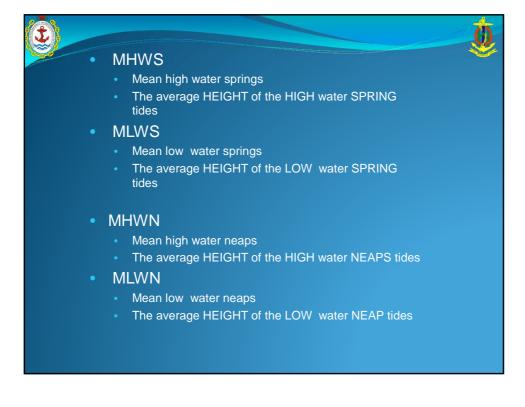


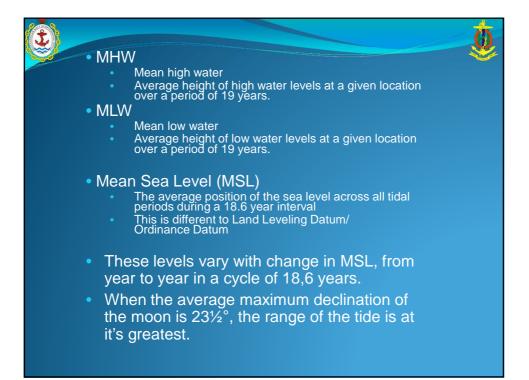


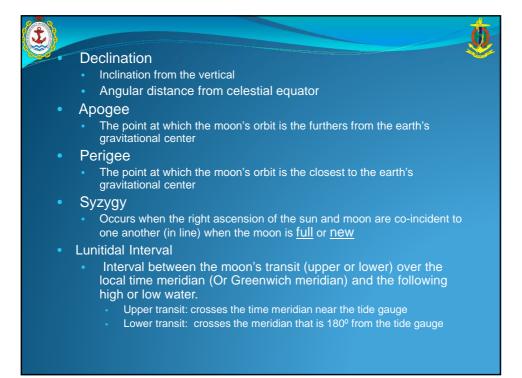


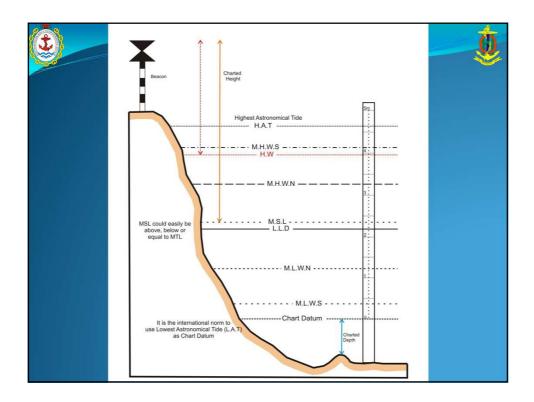


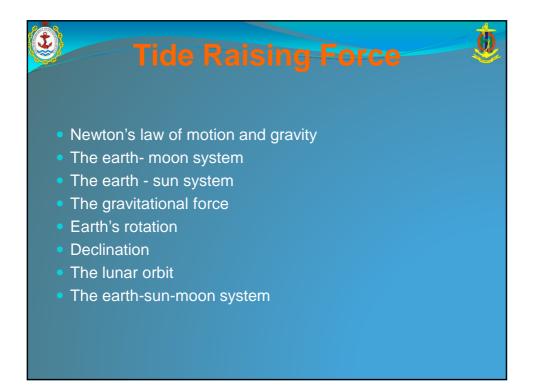


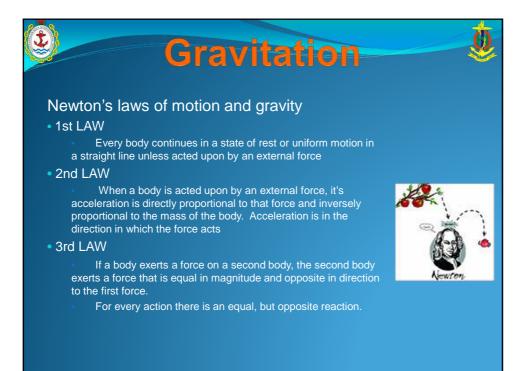


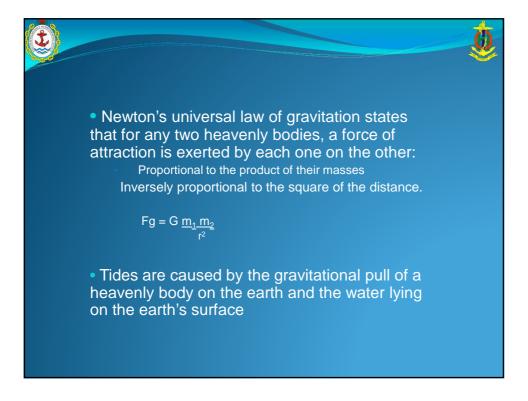




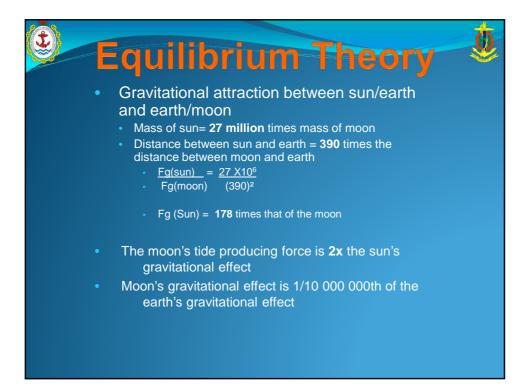


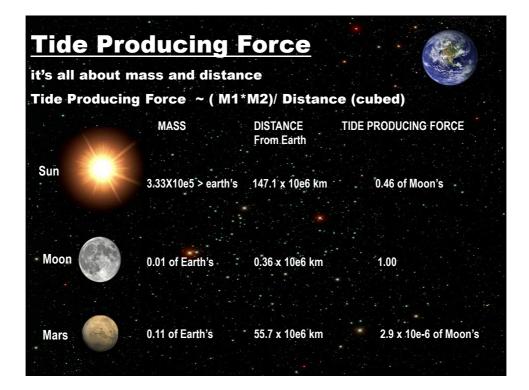


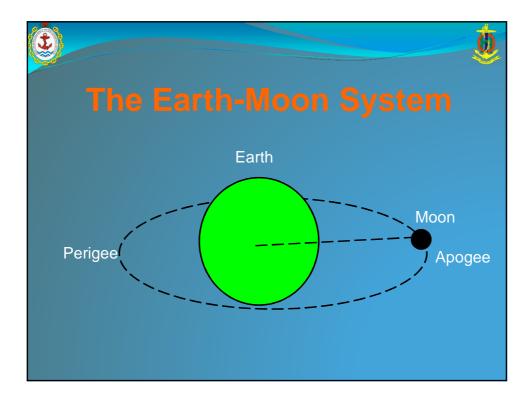


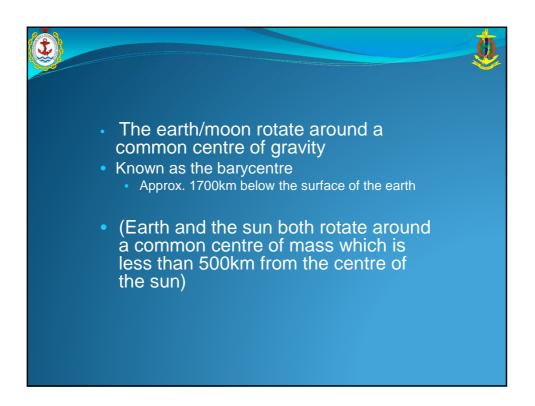


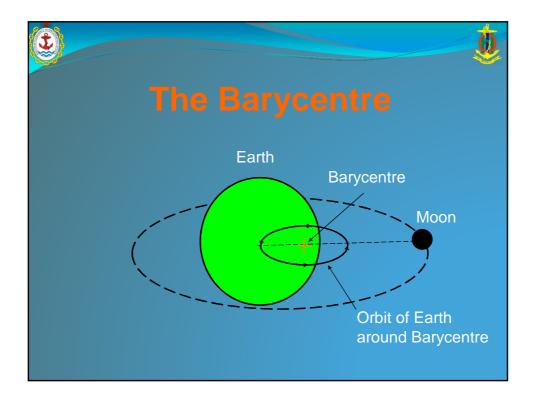


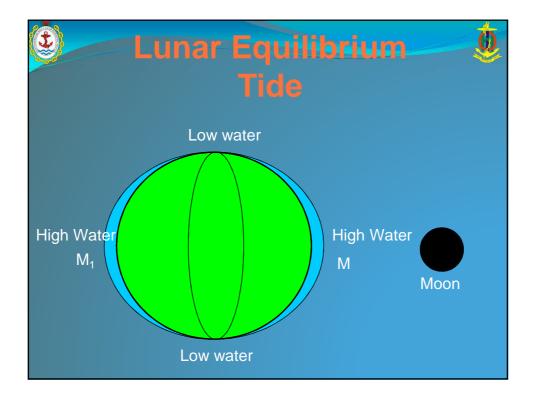


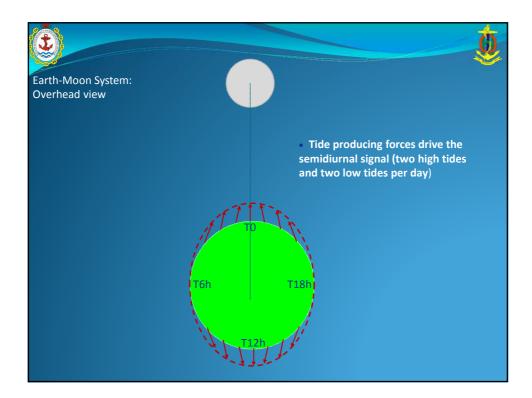


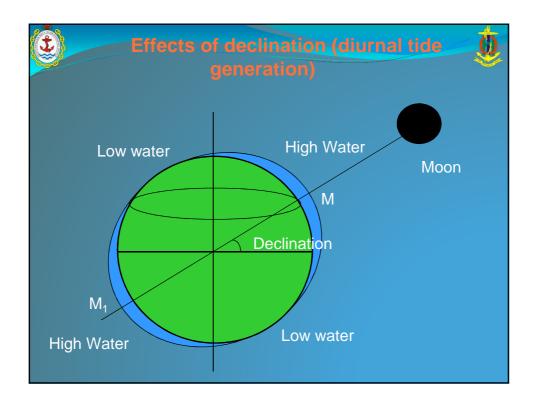


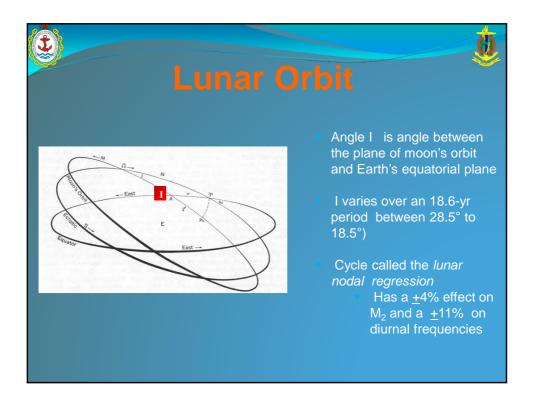


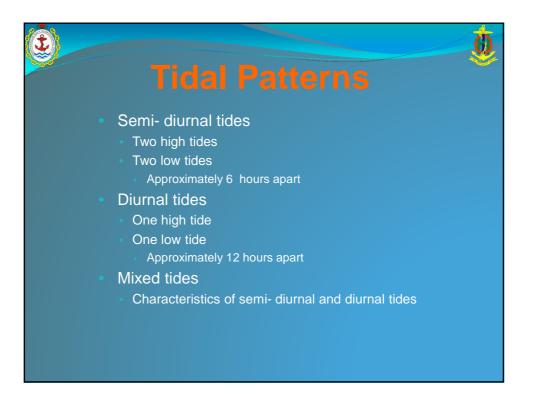


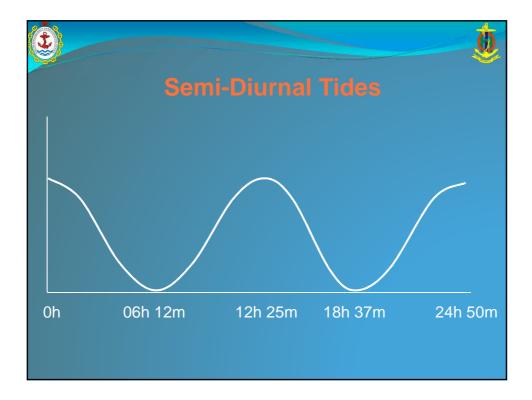


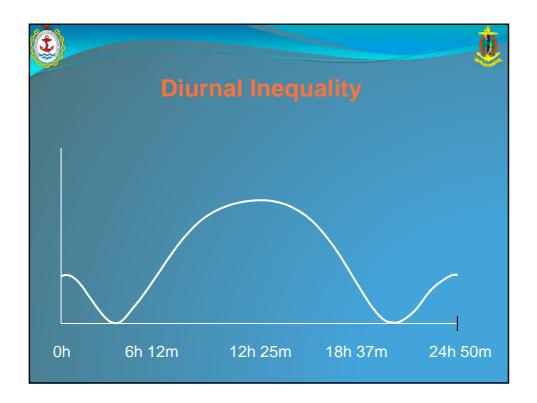




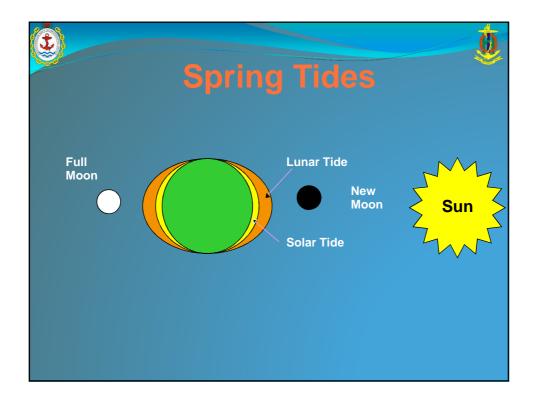


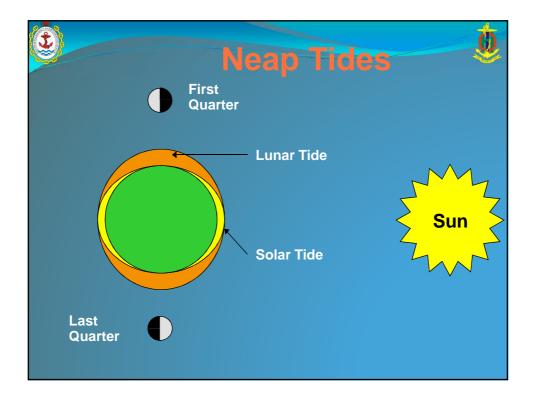


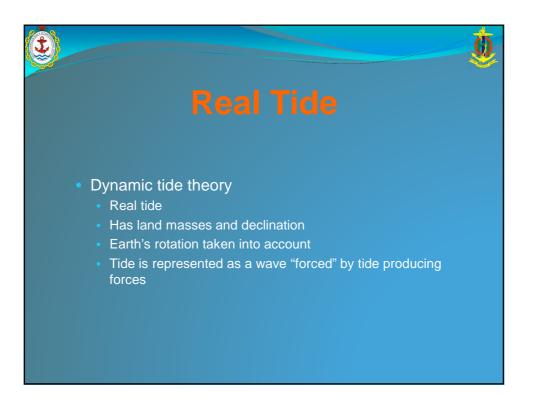




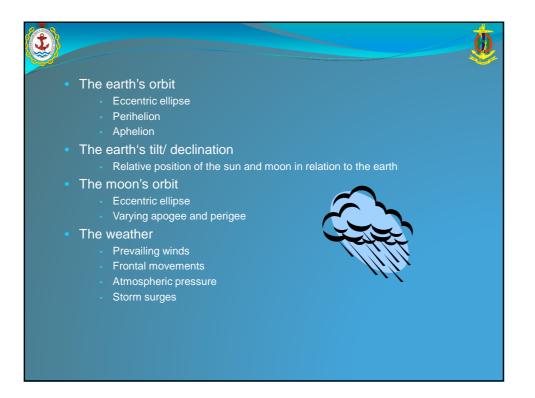


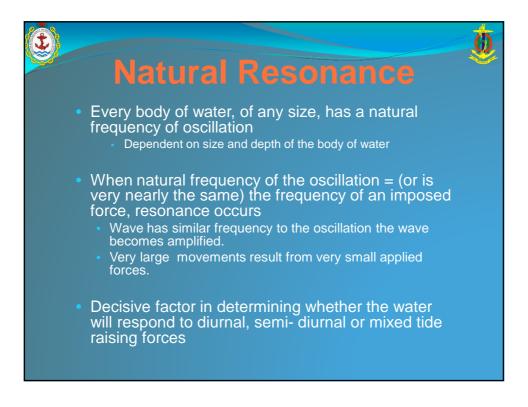


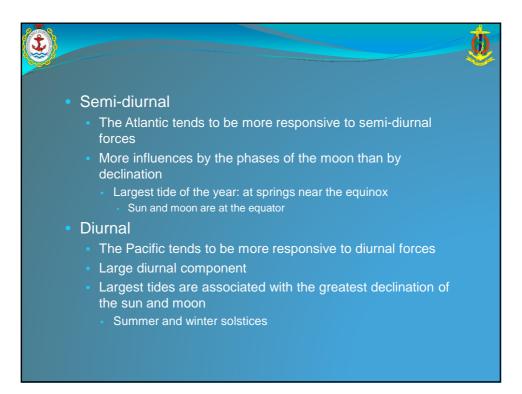


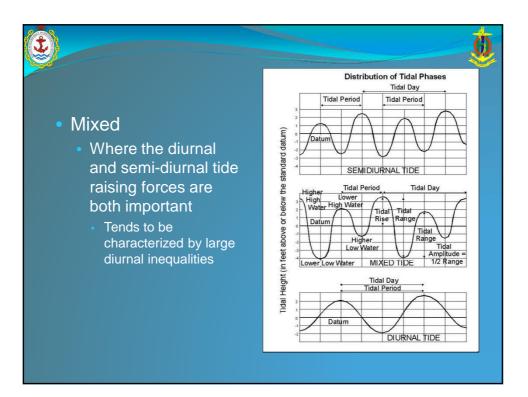


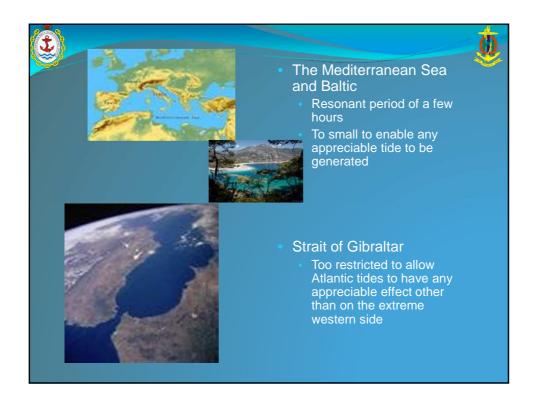


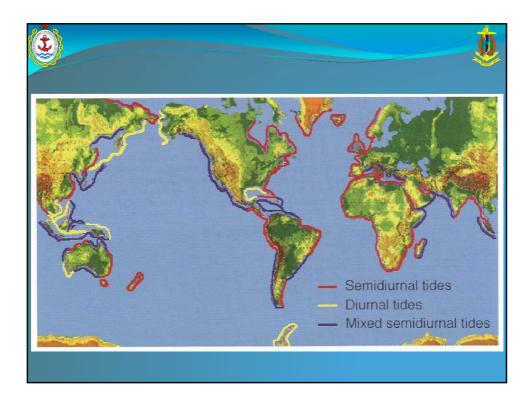


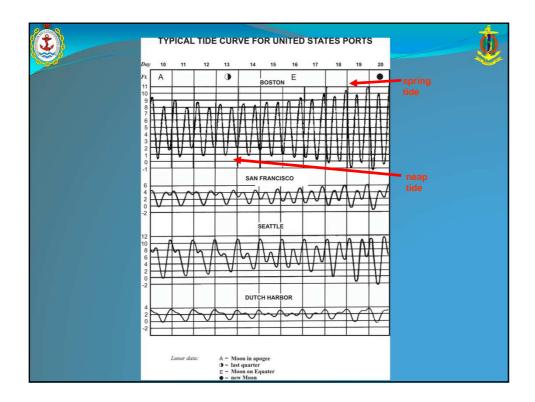


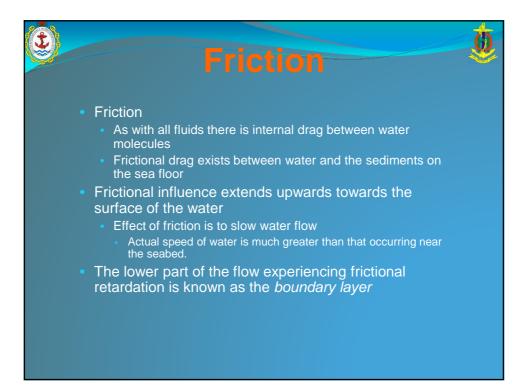


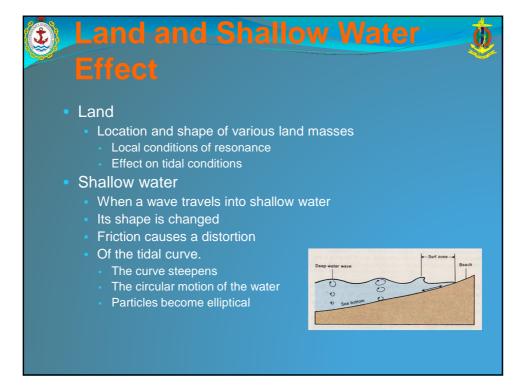


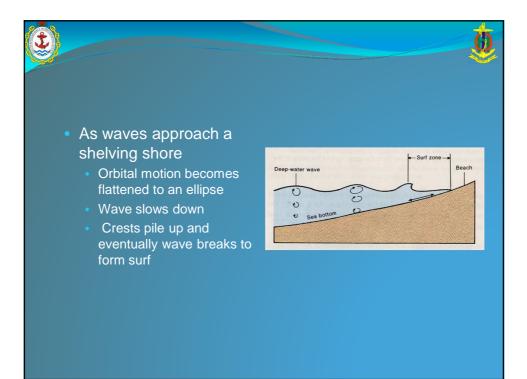


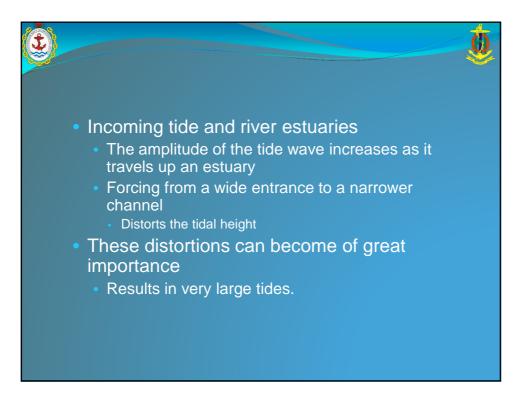












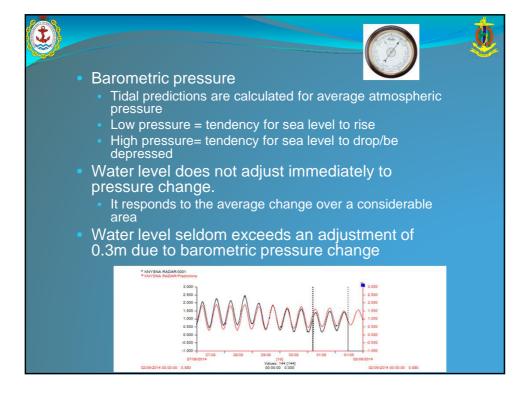


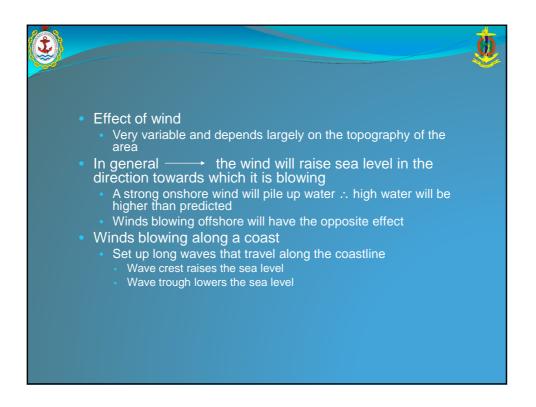
Meteorological Effects

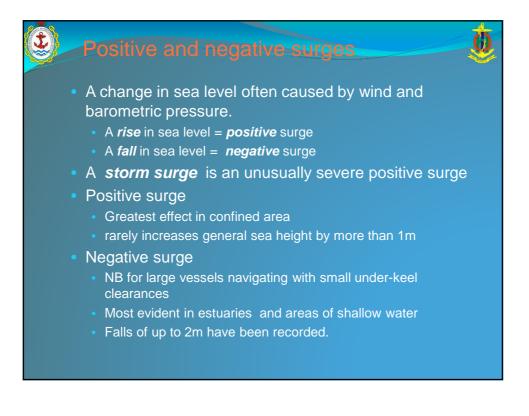
 Meteorological conditions which differ from the average will cause corresponding differences between actual and predicted tides

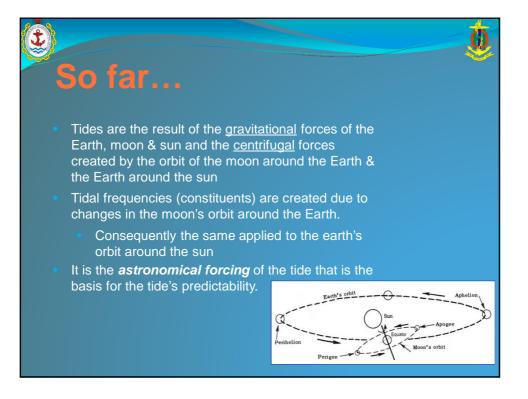
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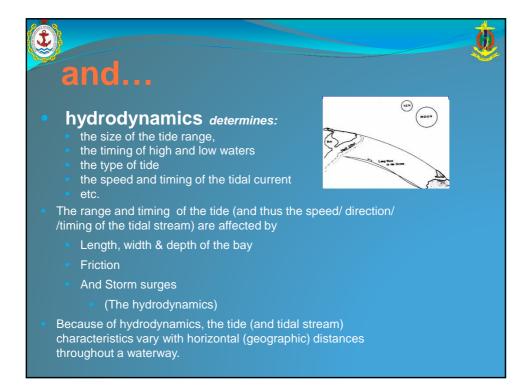
- Variations are mainly caused by strong/prolonged winds and unusually high or low barometric pressures
- Differences between predicted and actual tide heights are mainly due to wind
- Statistical analysis indicates
 1 std deviation of differences between predicted and actual heights and times = 0.2m and 10 minutes respectively





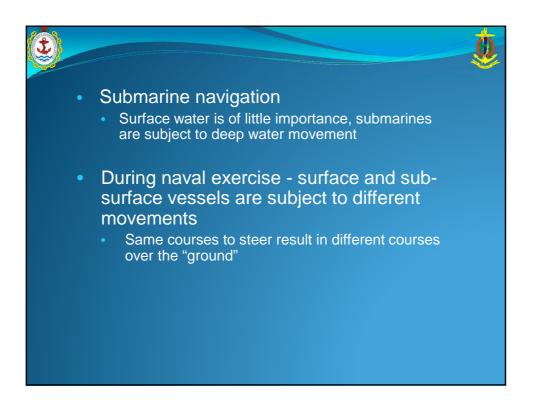


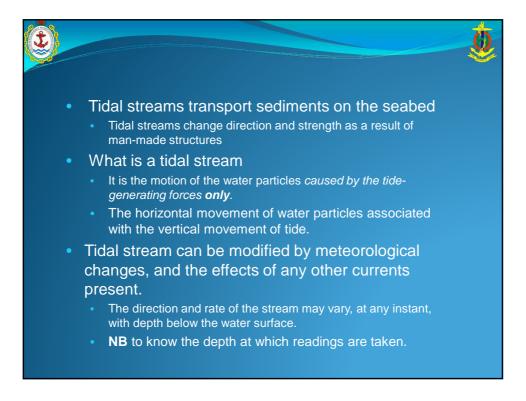


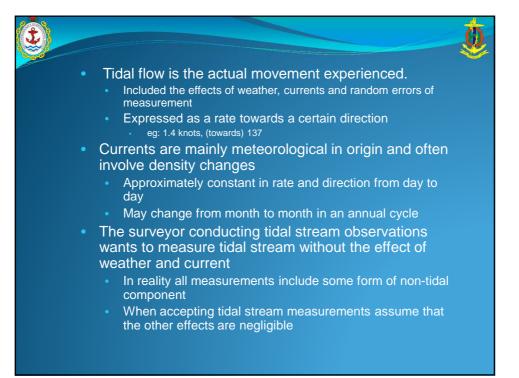


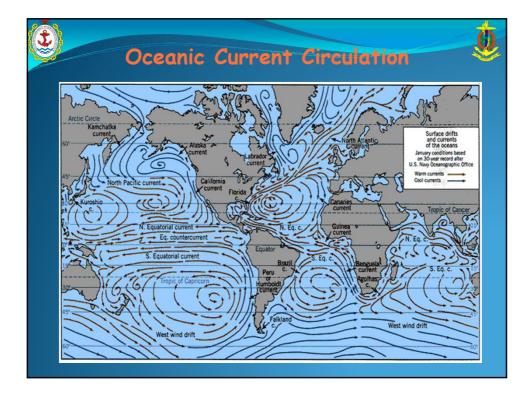


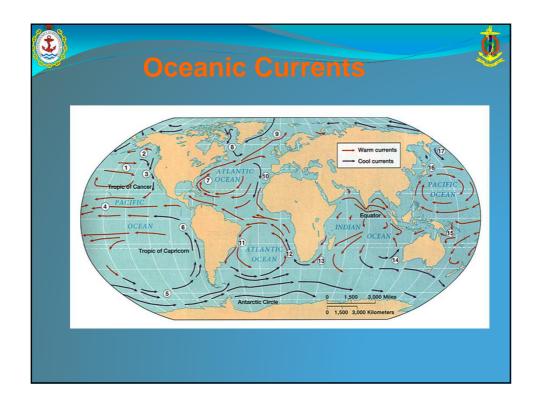


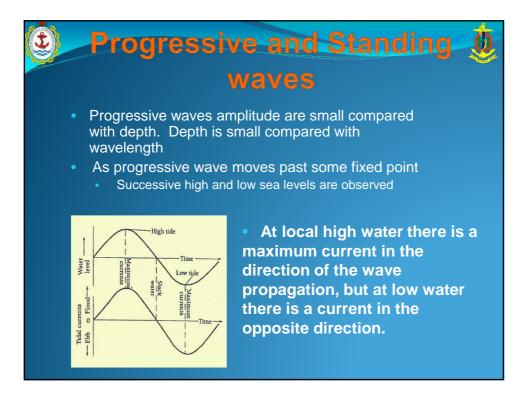


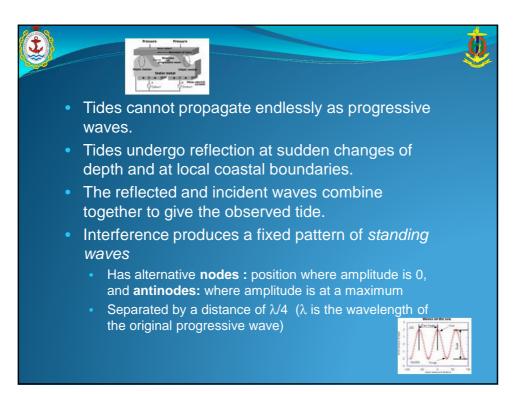


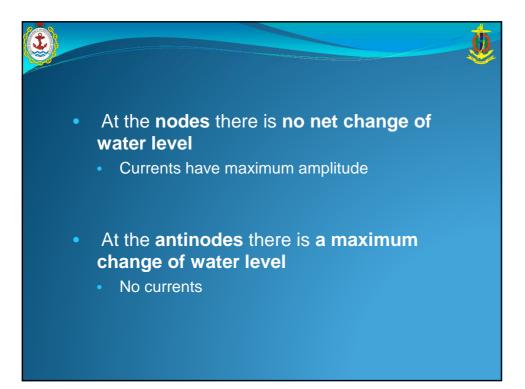


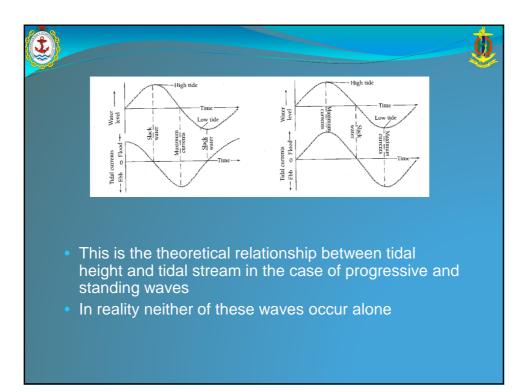


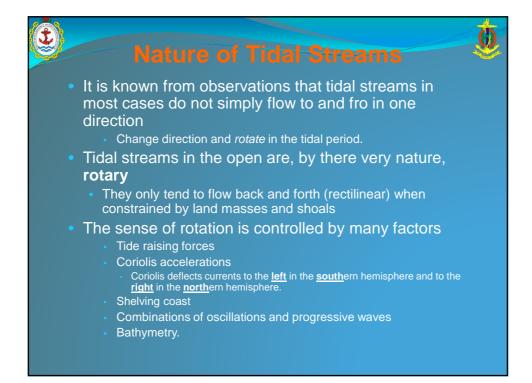


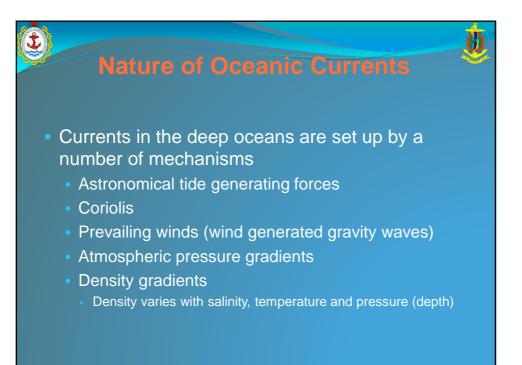


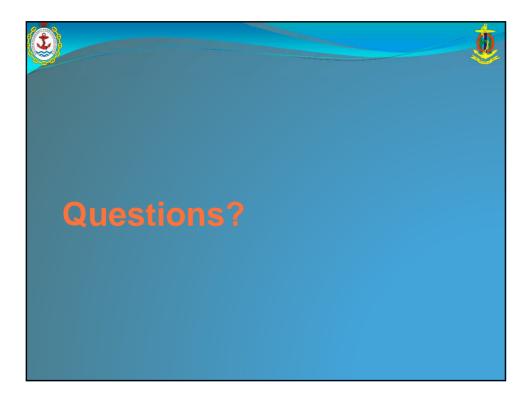


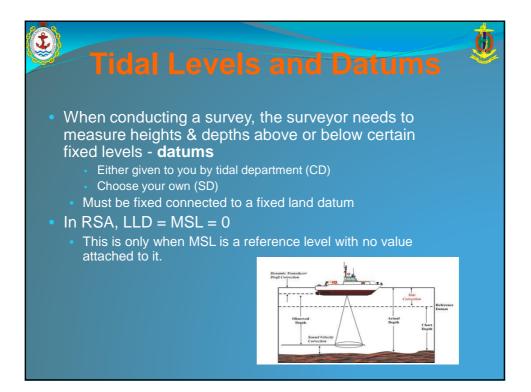


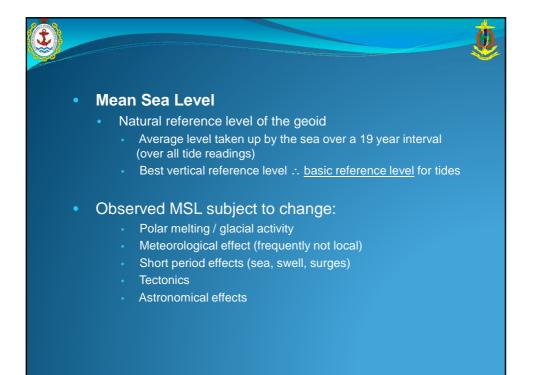




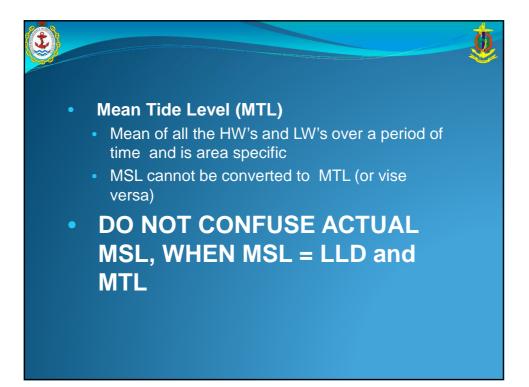


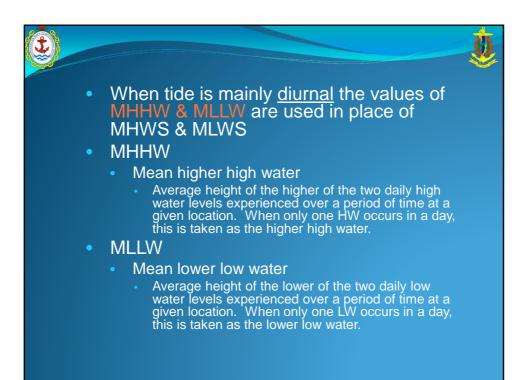


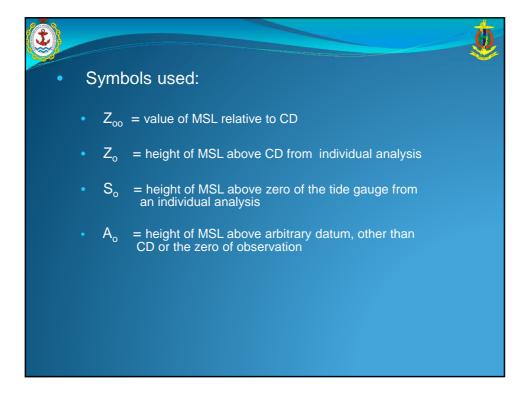












Sounding datum (SD)

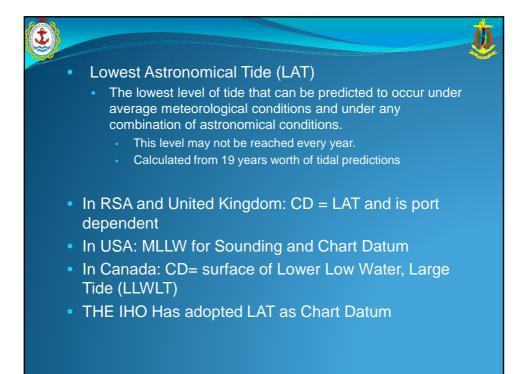
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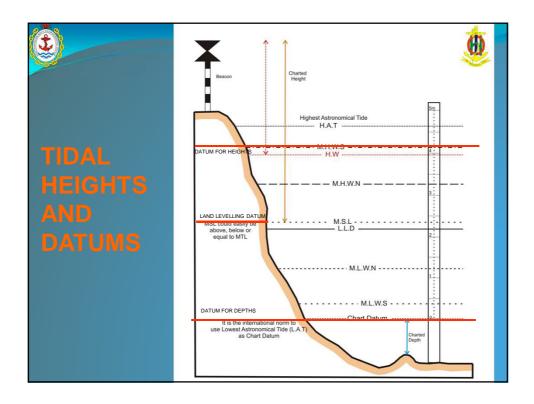
- The low-water plane to which soundings are reduced and above which drying heights are given on a bathymetric sheet.
 - Datum that is established in the field by the surveyor

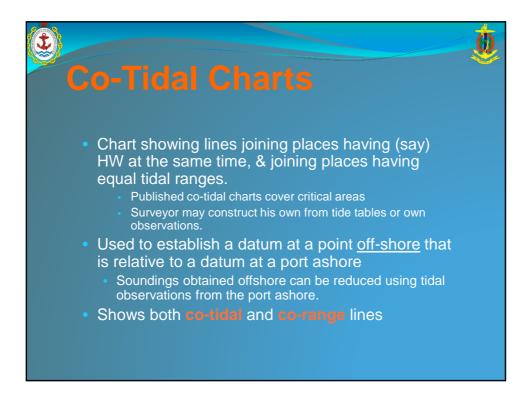
Chart datum (CD)

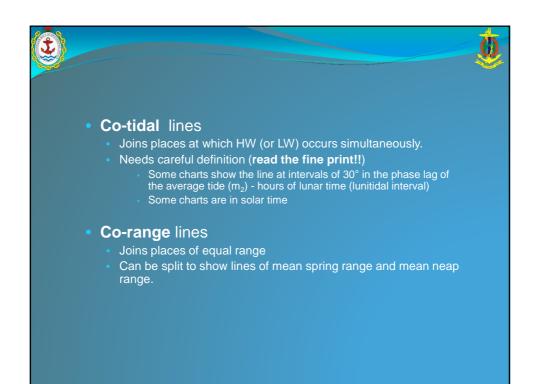
- The datum to which all soundings on large scale navigational charts of an area are reduced
- The datum to which tidal heights are referred
- Lowest astronomical tide in RSA
- The water level will seldom fall below this level
- Should vary gradually from area to area
 Avoid errors of discontinuities with adjoining charts

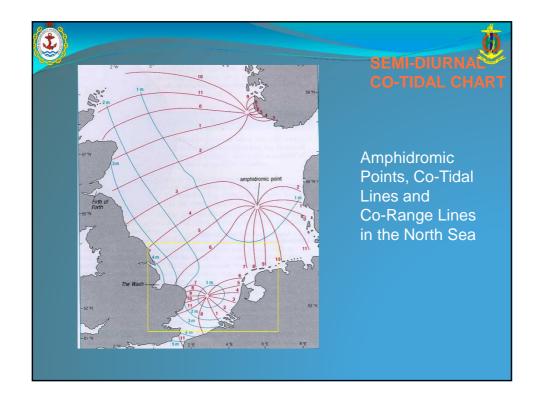
The surveyor does not establish CD in the field

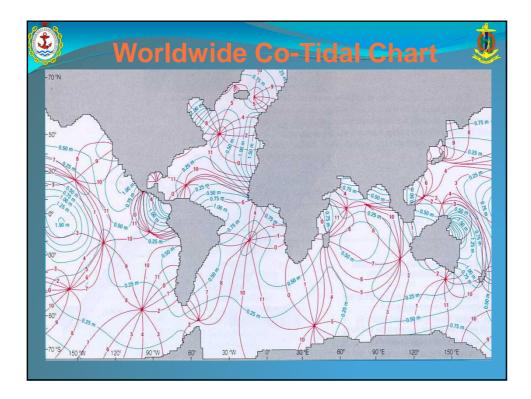


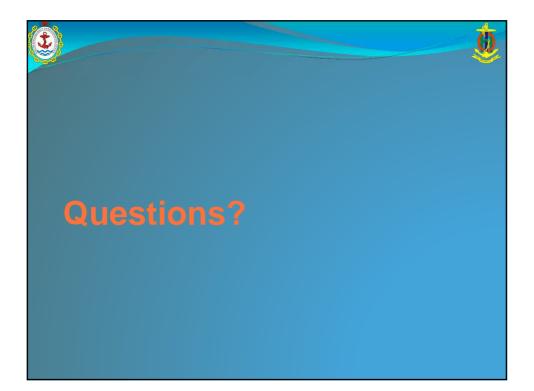


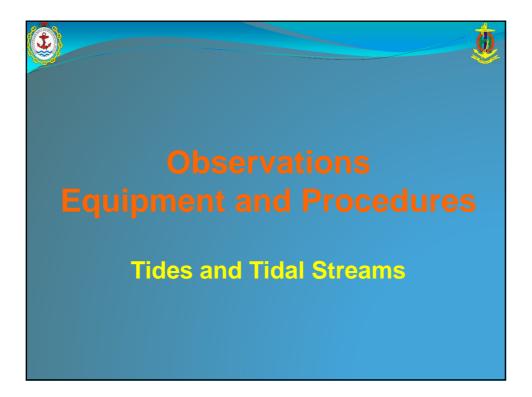


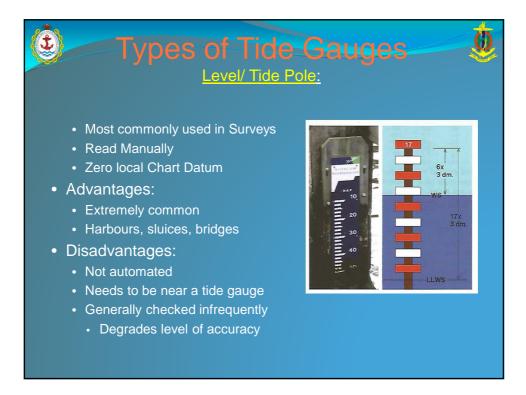




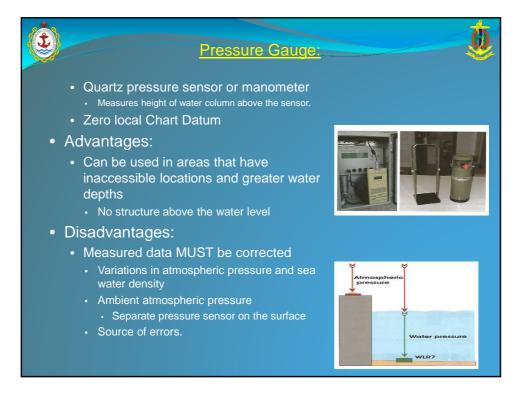




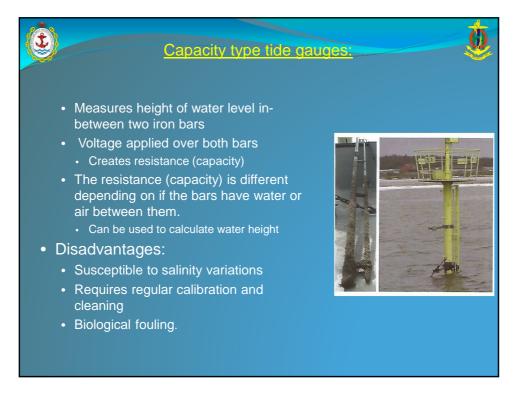




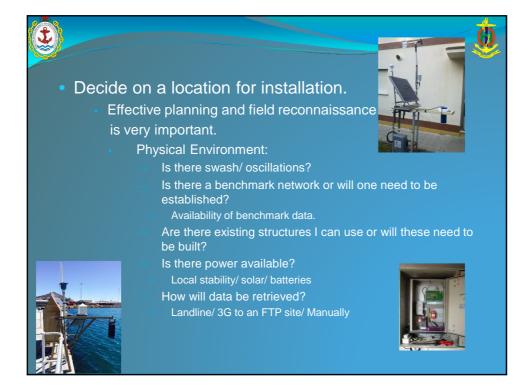




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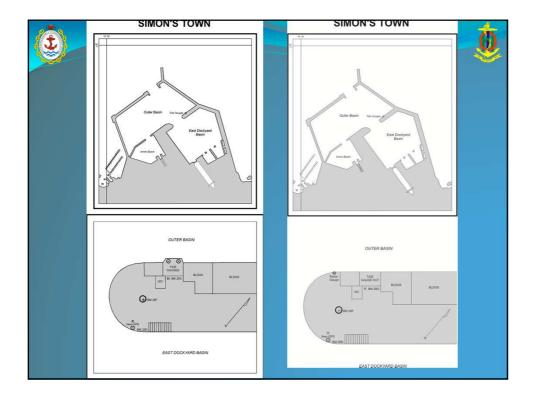




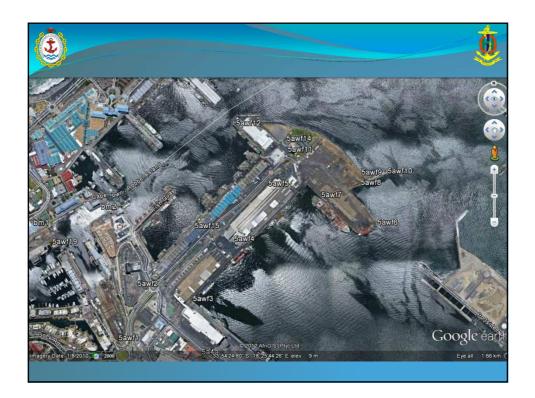


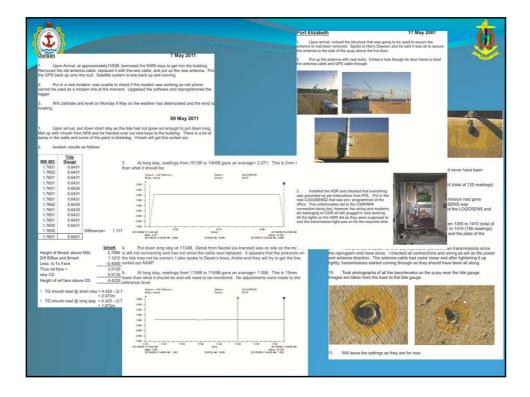


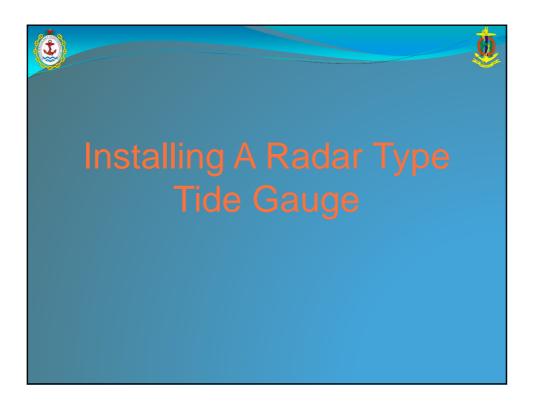




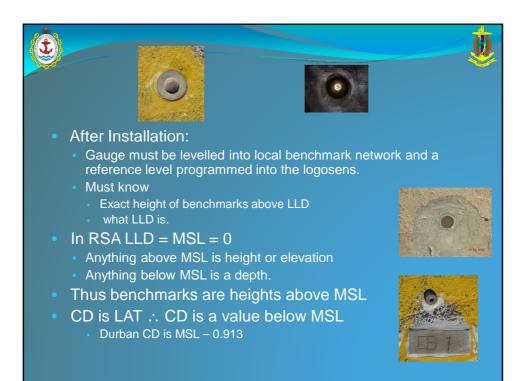
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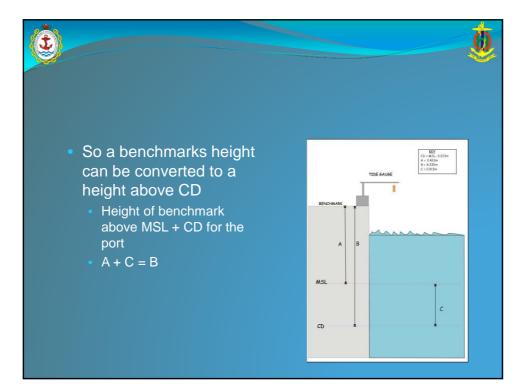


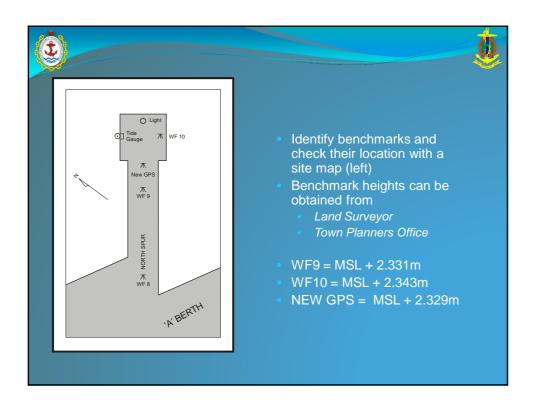


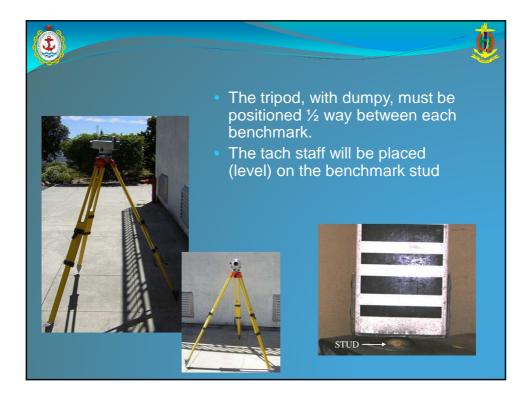


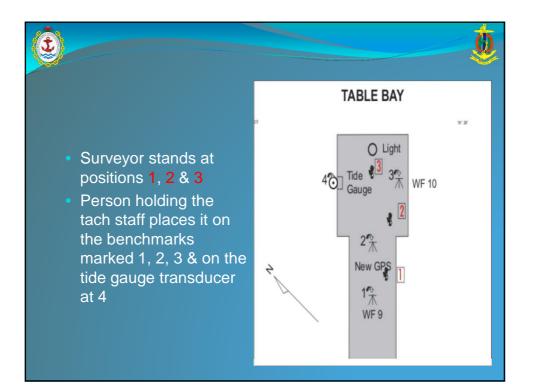


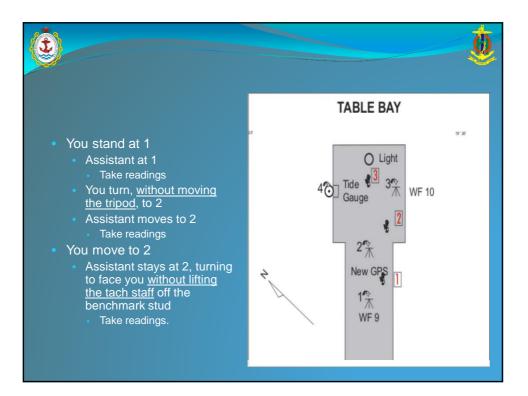


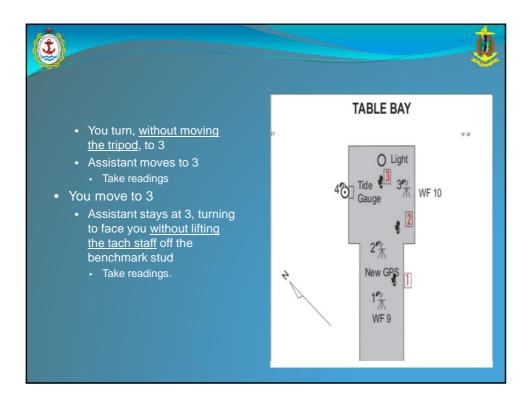


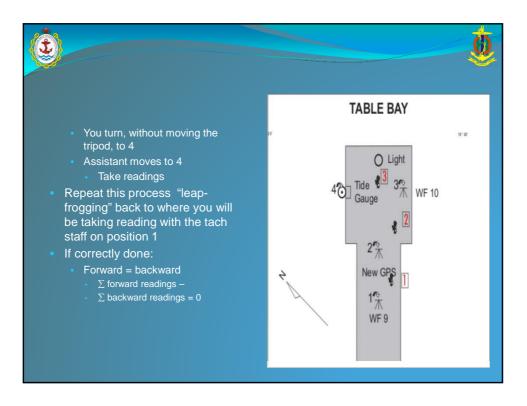






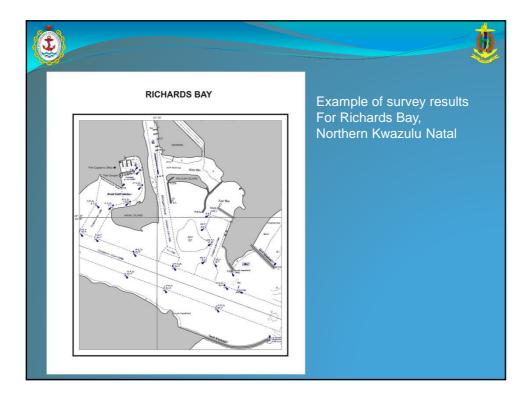


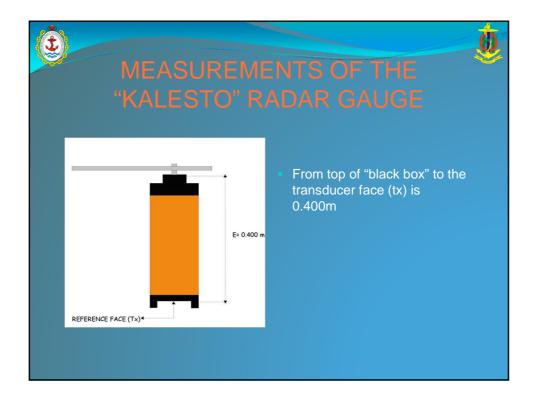


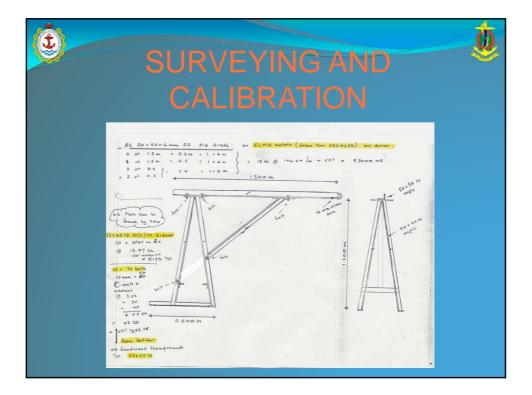


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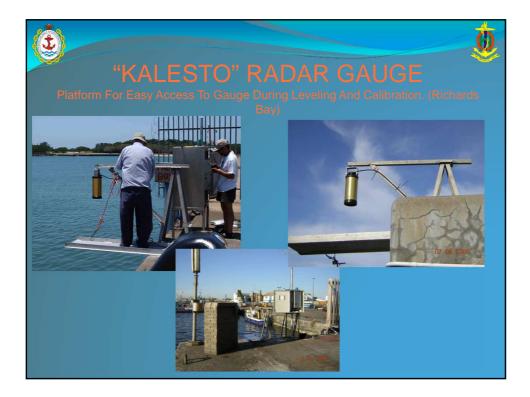




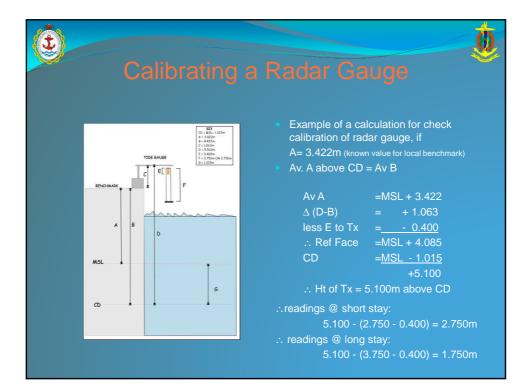












SCH3	SAN84.2	Tide Gauge		
1.7207	1.7271	0.6649		
1.7207	1.7271	0.6649		
1.7207	1.7271	0.6649		
1.7208	1.7271	0.6649		
1.7207	1.7271	0.6649		
1.7207	1.7271	0.665		
1.7207	1.7271	0.6649		
1.7206	1.7271	0.6649		5 C
1.7207	1.7270	0.6649		
1.7207	1.7271	0.6649		AL MAEY
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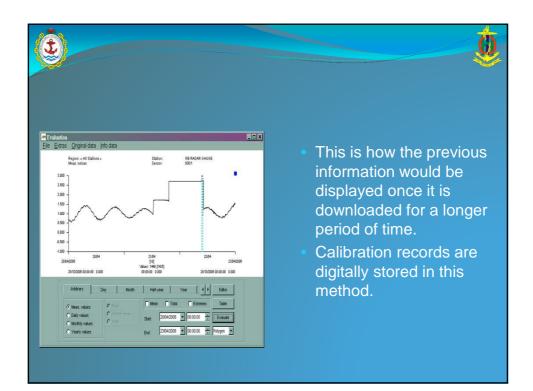
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Tide G	Gauge	
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	≈ 1.059m	

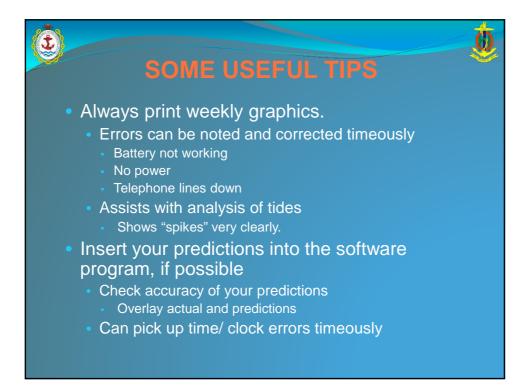


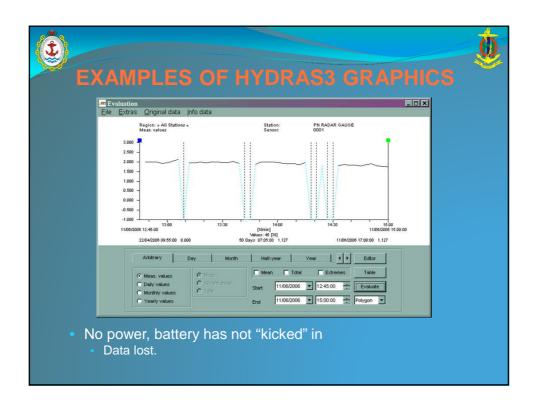
<u>į</u>	00B to 1900B s: 125 715m above CD	
	 No values: 7 Mean: 1.71 This is 0.03 	LOGOSEN
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	14/20 15/20	Day Morth C (Hean C Vicity Lincen C Total
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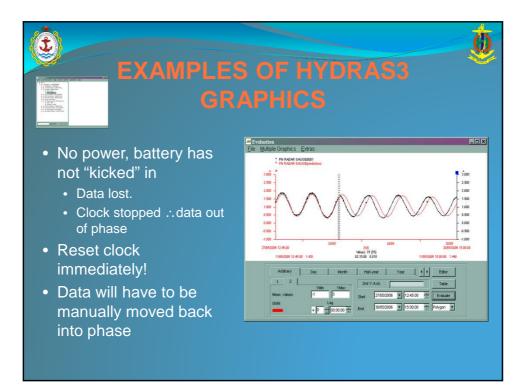
Frances	• At long stay:
Elle Entres Organis data Info data Fage: x /s literature Base: 10 MAXM Salotit 100: 1 100: 1	 From 1925B to 0900B next day
200 - 100 - 100 - 800 -	 No values: 272
0.00 - 0.00 - 1.00 -	 Mean: 2.718m above CD
Treaded in the time time time the time time time time time time time tim	 This is 0.032m <u>LOW</u>
C Note: value: P non- P non- P non- Pair Table Table <thtable< th=""></thtable<>	Add 0.032m to ref in LOGOSENS

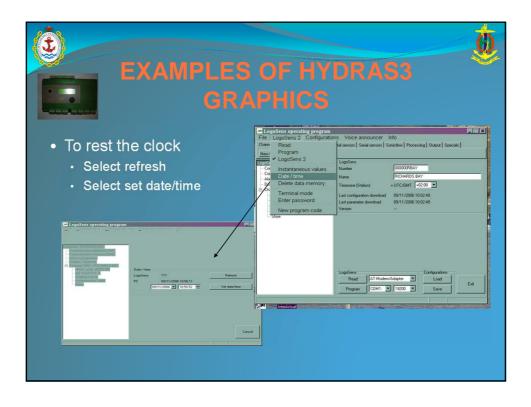
±	
Ele Botas (grand data jr/o data Ele Botas (grand data jr/o data Regin + Al Béleine Mata Value Mata Value Des States (grand data jr/o data Secure	 After resetting the reference level in the LOGOSENS At long stay: From 0935B to 0955B No values: 7 Mean: 2.753m above CD This is 0.003m <u>HIGH</u> This 3mm is perfectly acceptable to be out by.

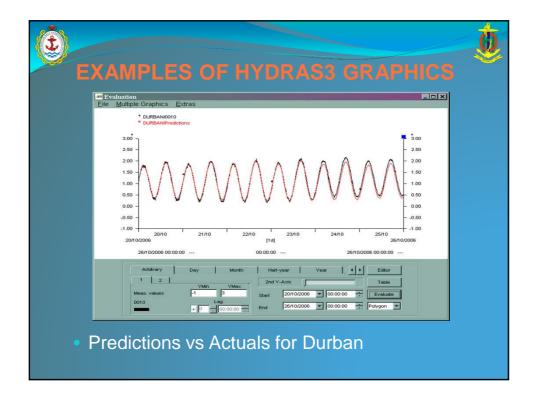


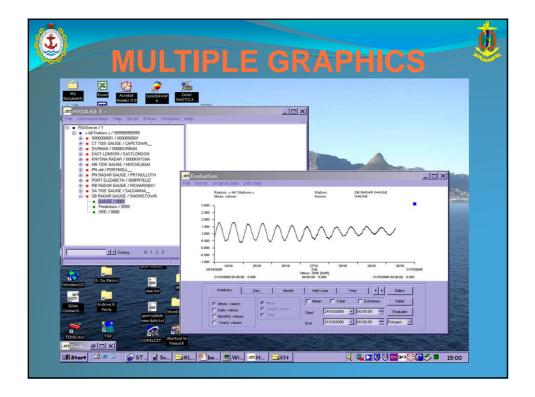


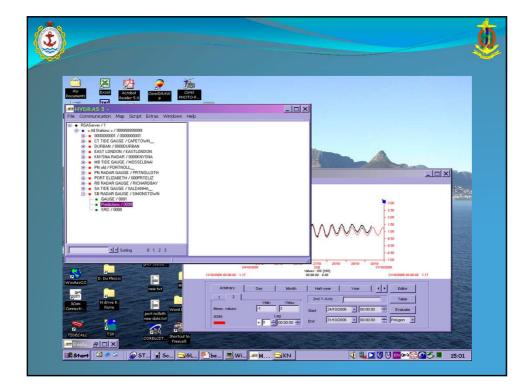




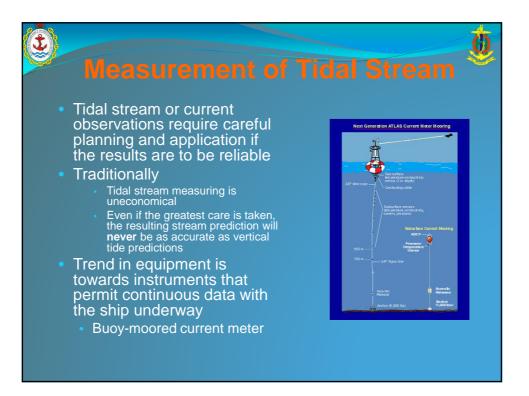


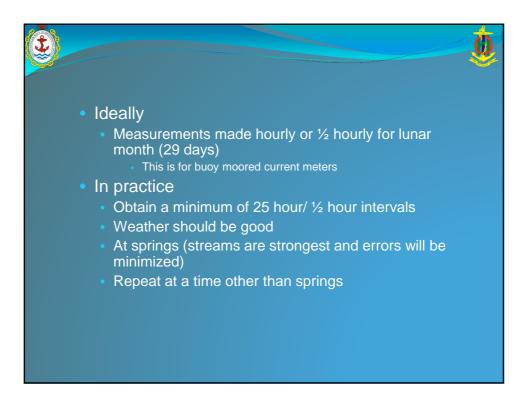


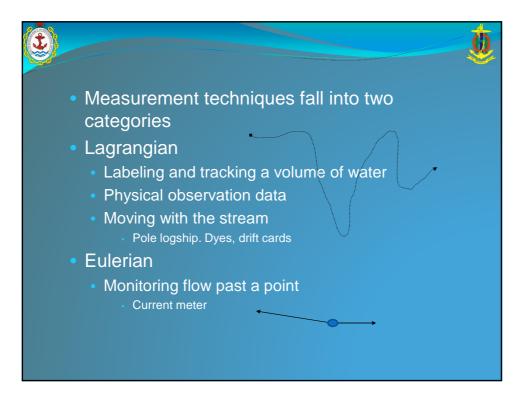


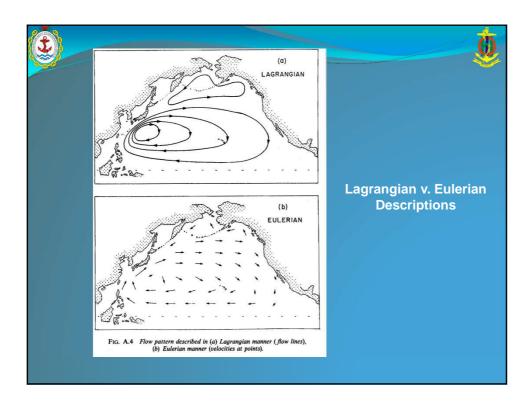


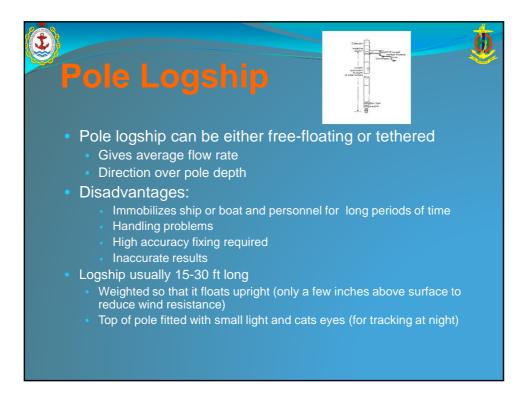


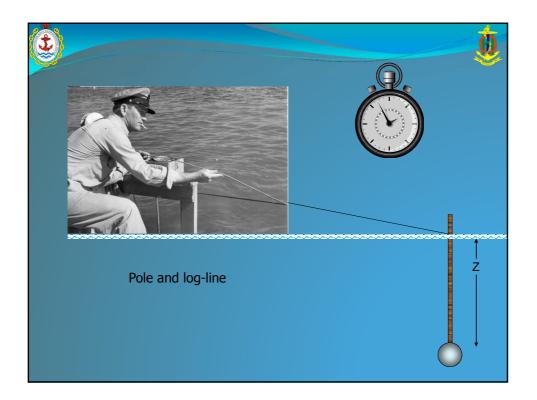


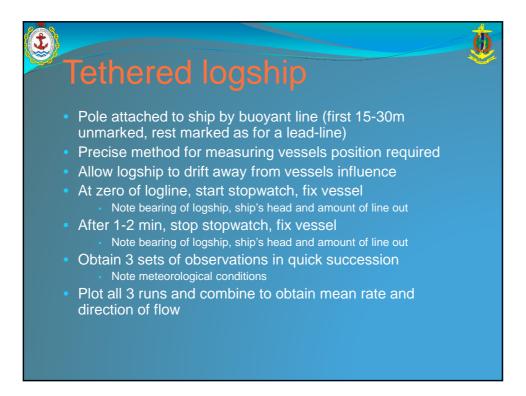




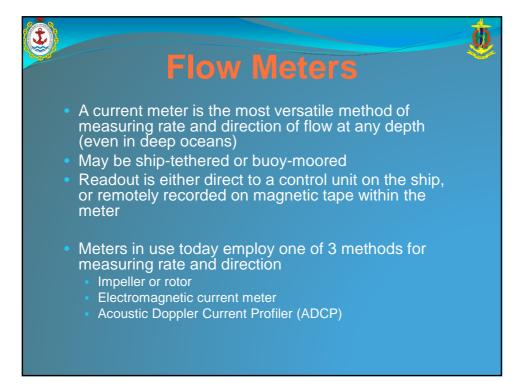


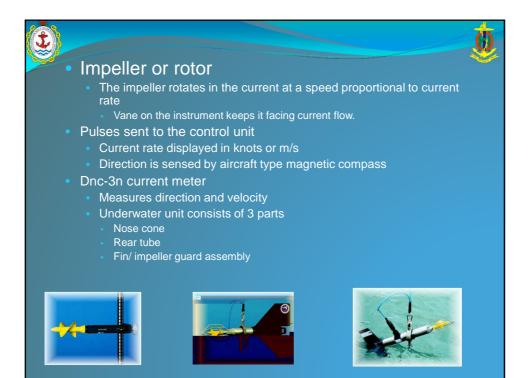


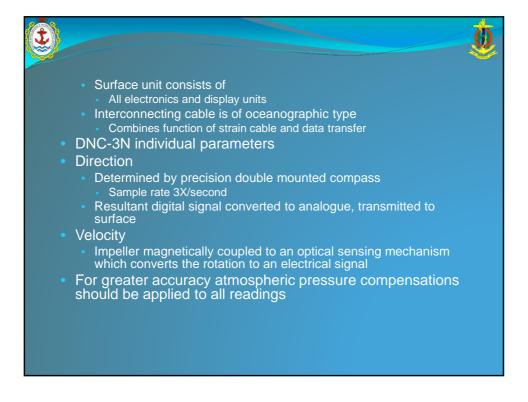




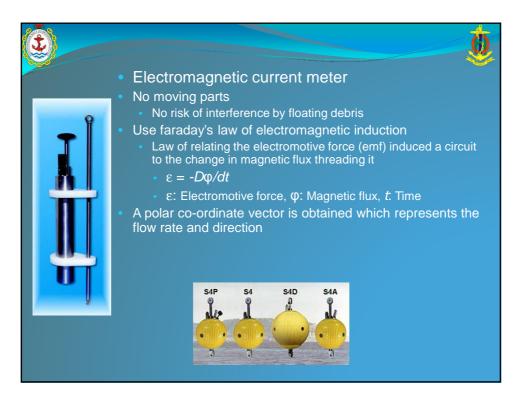
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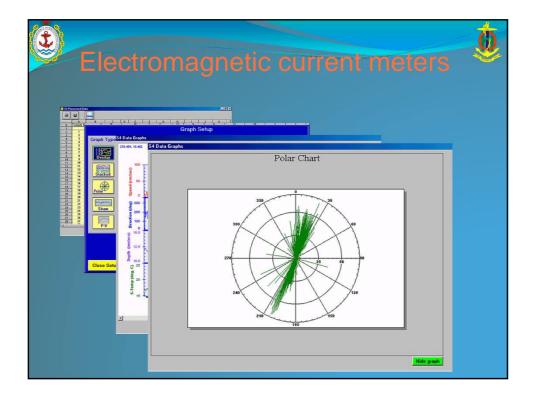


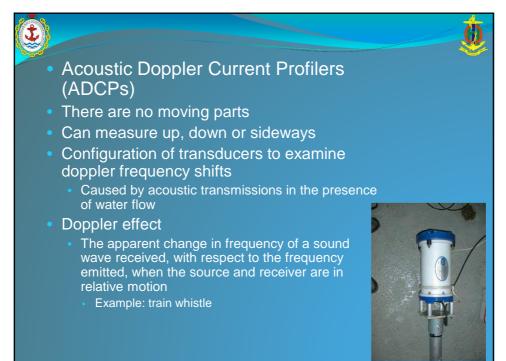


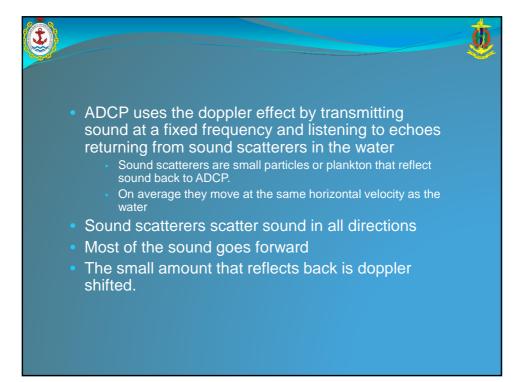


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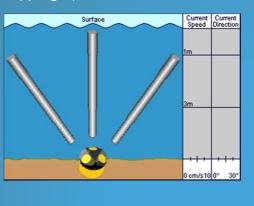
Acoustic Doppler Current Profilers

Example shows the display of data corresponding to the various depth cells within the water column. Each depth cell contains the average of the data collected by a series of transmitted sound pulses ("pings").

(a) Several pings are transmitted by the ADP each second.

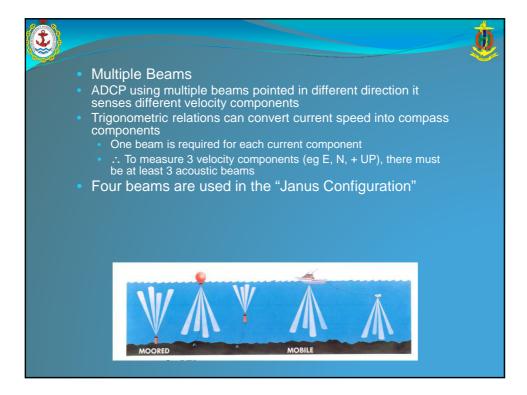
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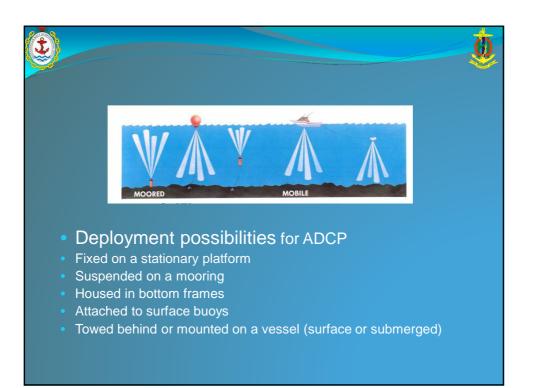
- (b) Pings are reflected back to the ADP after bouncing off particulate matter in the water.
- (c) Pings are processed (i.e. "averaged") by the ADP for recording and display.

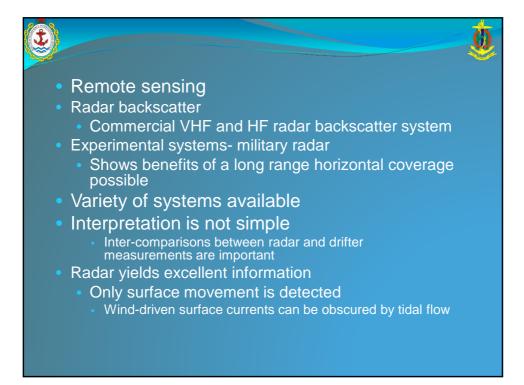


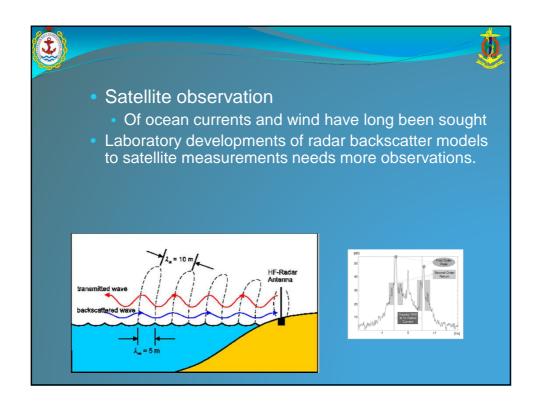


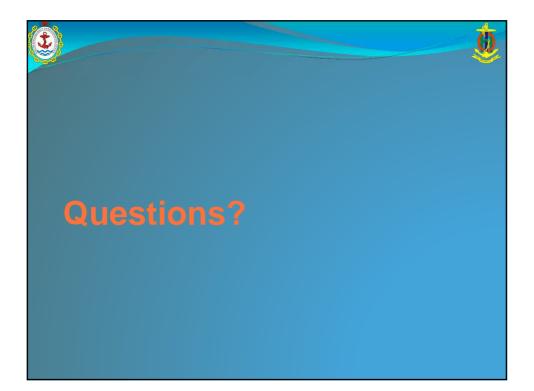




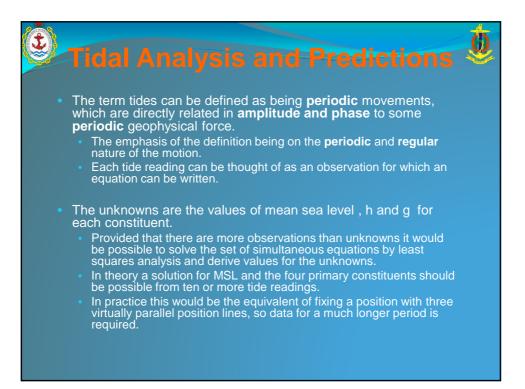


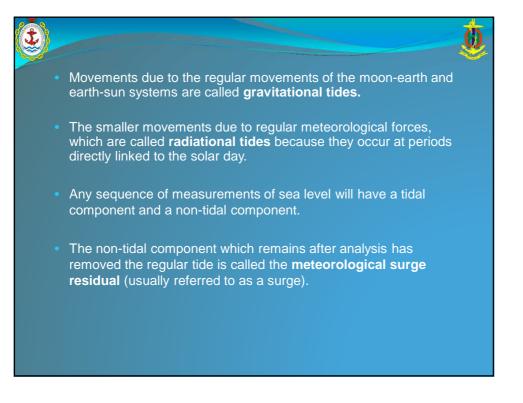


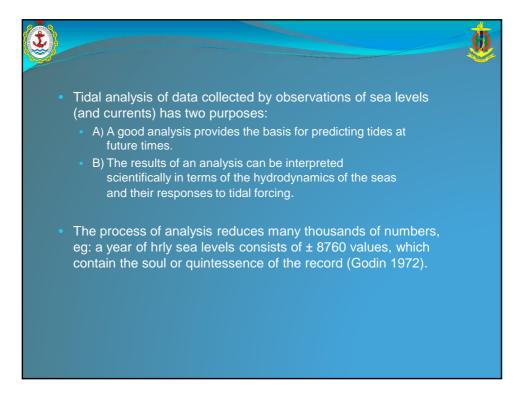


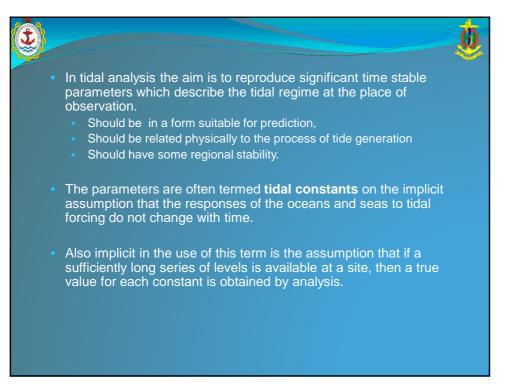


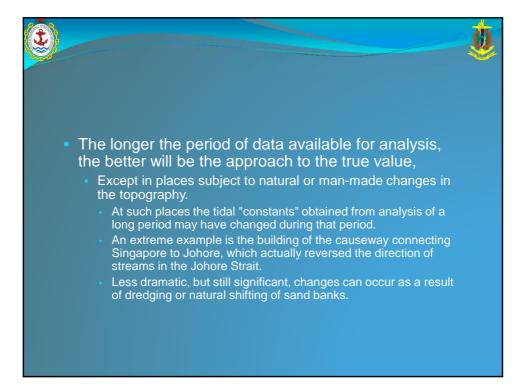


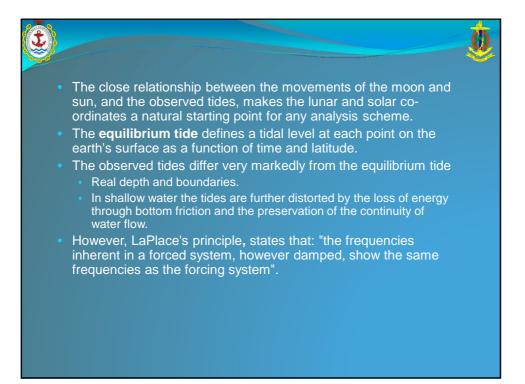


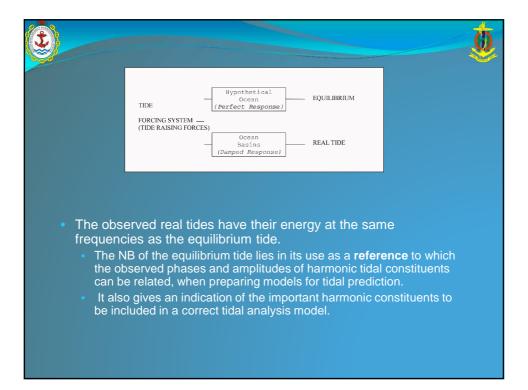


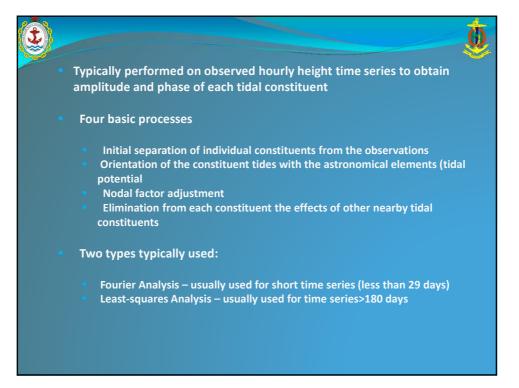


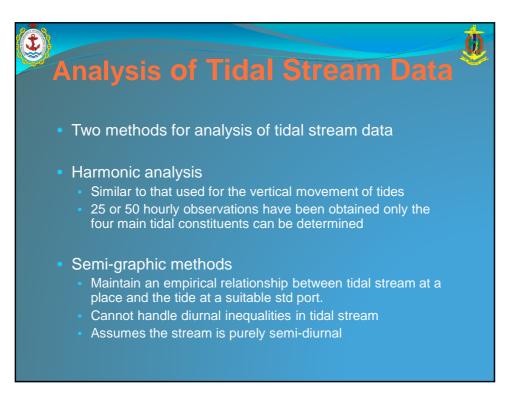


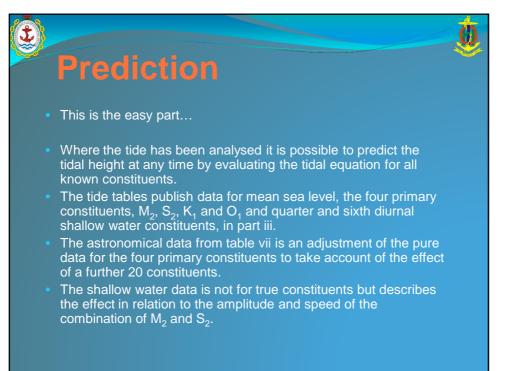


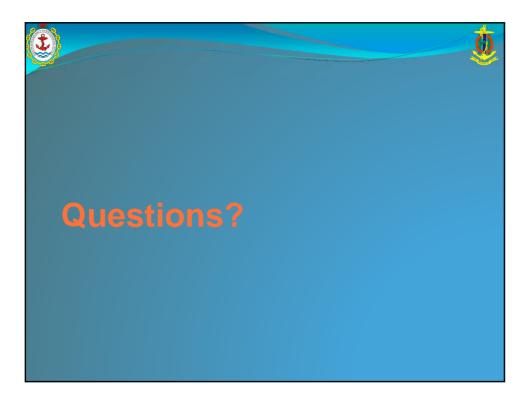












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