

Anglo-Eastern Group

MARINE SPATIAL PLANNING

A SHIP MASTER'S PERSPECTIVE

Capt. Shashi Khanna





MARINE SPATIAL PLANNING

Recreation

Food

Economic & environmental objectives

Marine life protection

Offshore aquaculture

HOW DOES IT AFFECT ME AS A **MASTER?**

Mineral extraction

Conserve nature

Environment

Sustainable economic development

Ecosystem based

Shipping / transportation





- May not be on a consultative body
- Expected to operate efficiently in a changed environment





TYPICAL CHALLENGES

CONGESTED PORT APPROACHES













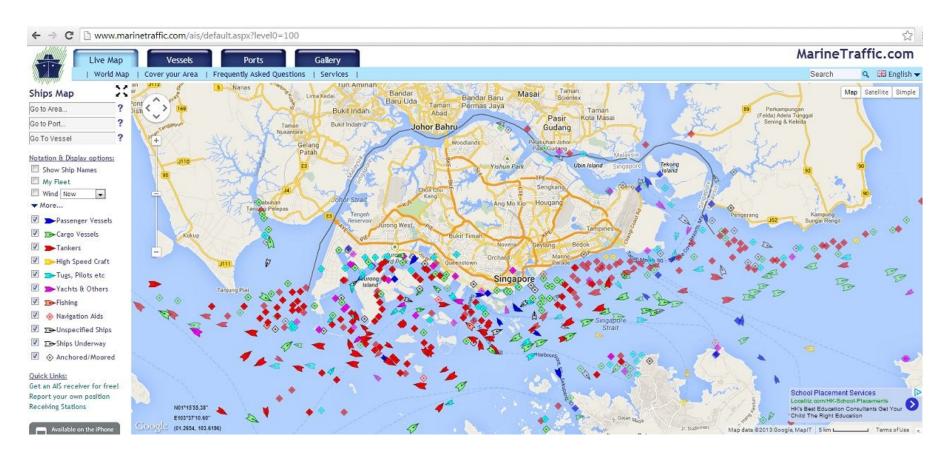
APPROACHES TO HONG KONG







SINGAPORE







CONGESTED ANCHORAGES







Do you have the stomach for this manoeuvre?!!













TYPICAL CHALLENGES

PILOT BOARDING POINT IN THE MIDST OF FISHING GROUNDS































COMPLETE RELIANCE ON PILOT







TYPICAL CHALLENGES

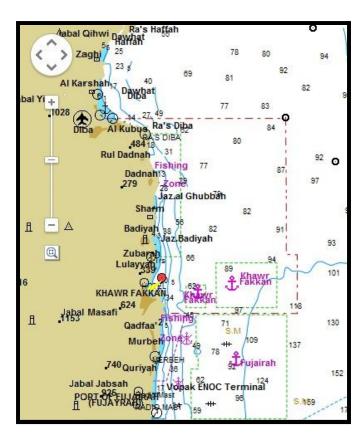
SAFE BERTHS

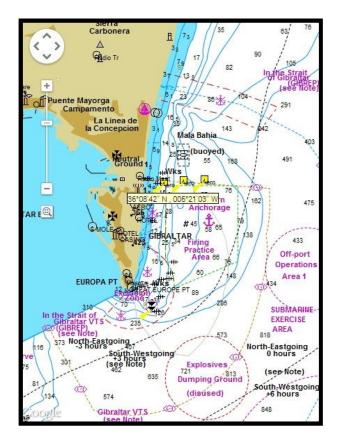




UNSUITABLE ANCHORAGES

CONVENTIONAL WINDLASS DESIGN FOR ANCHORAGE DEPTHS OF 82.5 MTRS











UNSUITABLE ANCHORAGES

ANCHOR DAMAGES









UNSUITABLE ANCHORAGES

 Distance between vessels < 2 cables at times

Strong currents











UNPROTECTED BERTHS













UNSAFE BERTHS





UNSAFE DISTANCE BETWEEN VESSELS





UNSAFE BERTHS

 Ships passing close by at high speeds induce high peak loads which may result in mooring failures

Enforce speed restrictions









UNSAFE PORT

23 Oct 13 - 16:37

Redefining the 'safe' port Article written by Watchkeeper, BIMCO

We all think we know what is meant by a "safe" port; one where a ship may lie safely alongside and, aided by an "always afloat" clause, with sufficient water under the keel at all stages of the tide. But ships are getting bigger and deeper, longer and wider, and the "envelope" of a ship often finds itself being squeezed into spaces that will only just accommodate her.

We might also be considering the manoeuvrability of big modern ships. When we consider the performance, we note that the new ship has managed to perform at the contracted speed on her trials, but there will be less attention paid to the performance of the vessel at slow speed, when she is arriving and departing from a port, making her way through a crowded anchorage. We might consider that it is the performance of the ship that is the critical issue here, but how much does the port manage to accommodate the difficulties of handling bigger ships, which may struggle to stay in an approach channel if there are crosswinds? Is the channel wide enough for the size of ships it is trying to attract? Have the facilities expanded in line with the bigger vessels?





UNSAFE PORT

 Most embarrassing if you don't even know the location of the port!





TYPICAL CHALLENGES

TRAFFIC SEPARATION SCHEMES





LAND - SPEED LIMITS IN LANES

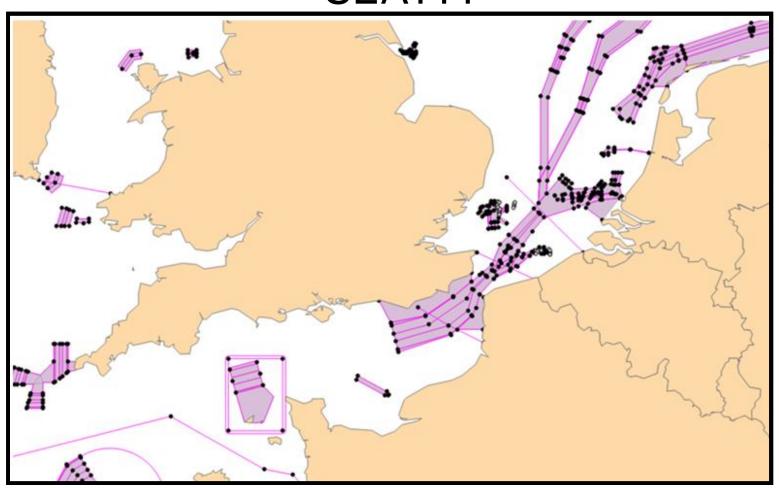








SEA???







CONCLUSION

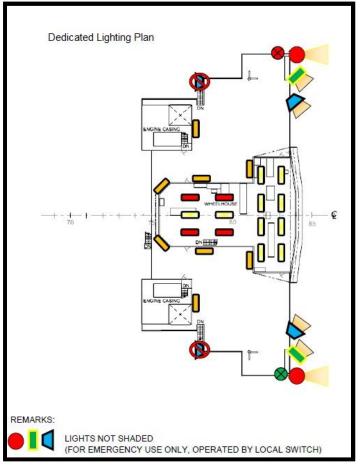








CONCLUSION













CONCLUSION





Spare a thought for the men and the women who brave the seas!



Anglo-Eastern Group

THANK YOU!