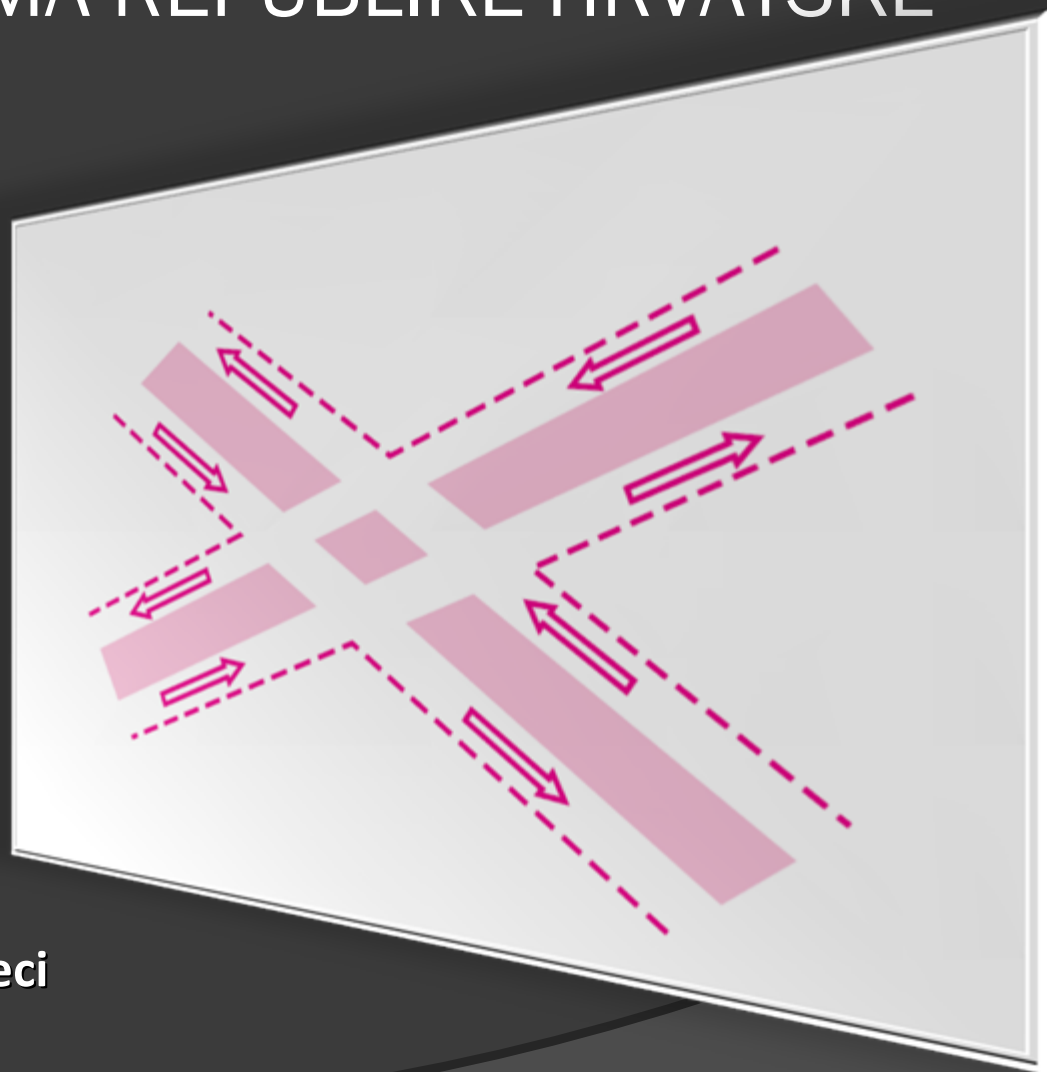


SIGURNOST PLOVIDBE U MORSKIM PODRUČJIMA REPUBLIKE HRVATSKE



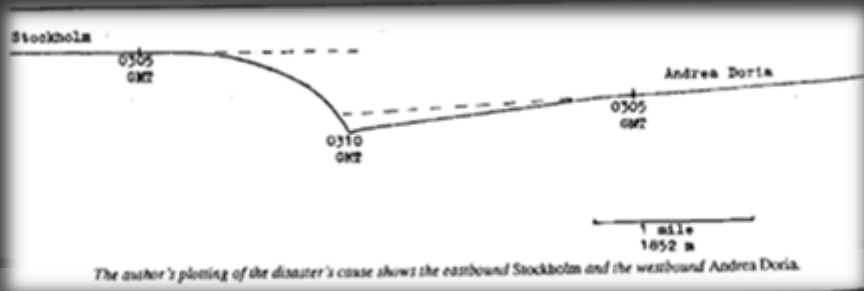
dr.sc. Damir Zec

Sveučilište u Rijeci
Pomorski fakultet u Rijeci

Bakar, 23. studeni 2011.

Nastanak sustava usmjerene plovidbe

- o 1854. *Vesta* i *Arctic* – prvi prijedlog odvojenog prometa
- o 1857. *The Nautical Magazine* – pisani prijedlog odvojenog prometa u Engleskom kanalu;
- o 1898. *North Atlantic Track Agreement* – dobrovoljni ugovor putničkih brodara o plovidbi unaprijed određenim plovnim putevima sjevernog Atlantika;
- o 1957. *Andrea Doria* i *Stockholm* – početak intenzivne pripreme
- o 1967. sustav odvojene plovidbe u Engleskom tjesnacu (obvezan od 1971)



Pravni temelji

IMO

- SOLAS '74 – Pravilo V/10
- COLREG '72 - Pravilo 10
- Rezolucija A.572(14), kako je izmijenjena

EU

- Direktiva 2002/59/EC

HR

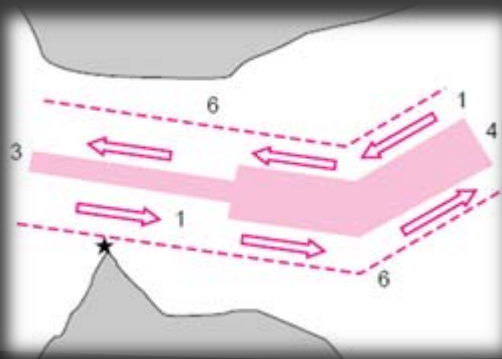
- Memorandum o uspostavi zajedničkog sustava plovidbenih pravaca i sustava usmjerene i odijeljenje plovidbe u **sjevernom dijelu sjevernog Jadrana** i Memorandum o uspostavi zajedničkog sustava plovidbenih pravaca i sustava usmjerene i odijeljenje plovidbe na području **sjevernog i srednjeg Jadrana**;
- Naredba o plovidbi u prolazu u šibensku luku, u Pašmanskome tjesnacu, u prolazu Mali Ždrelac i Vela Vrata, rijekama Neretvom i Zrmanjom, te o zabrani plovidbe Pelješkim, Koločepskim, Unijskim kanalom i kanalom Krušija, dijelovima Srednjega kanala, Murterskoga mora i Žirjanskoga kanala.

Osnovne mjere usmjeravanja plovidbe

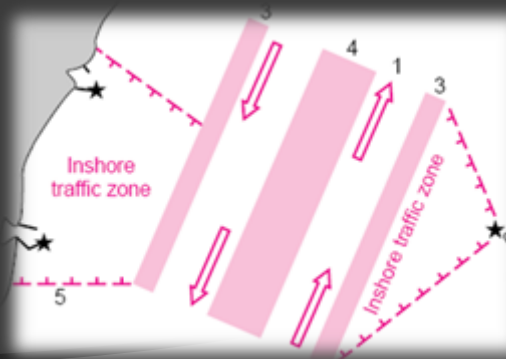
Upravljanje u cilju poboljšanja sigurnosti plovidbe:

- područjima konvergencije plovidbenih pravaca,
- područjima velike gustoće prometa,
- ograničenim manevarskim prostorima, dubinom ili drugim uvjetima.

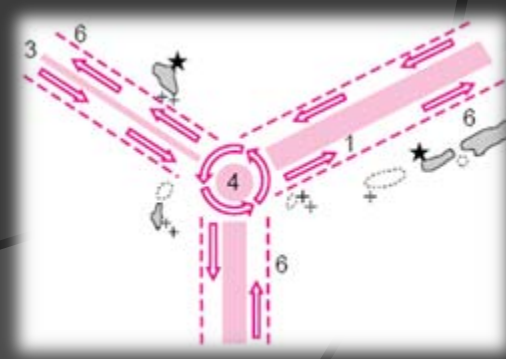
Sustav odvojenog prometa
Traffic separation scheme



Područje priobalnog prometa
Inshore traffic zone

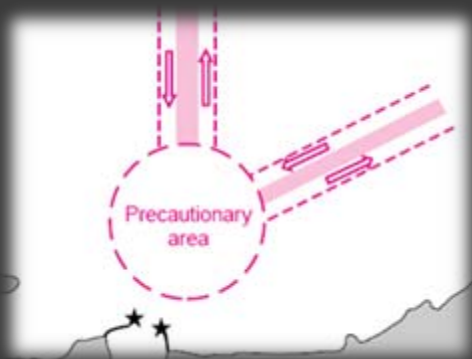


Kružni tok
Roundabout

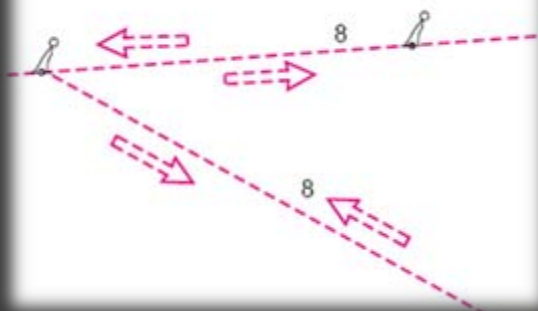


Osnovne mjere usmjeravanja plovidbe

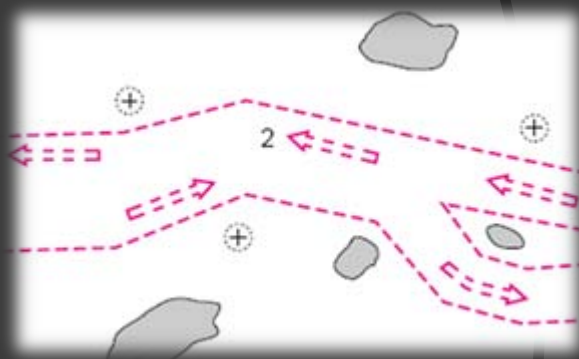
Područje povećana opreza
Prcautionary area



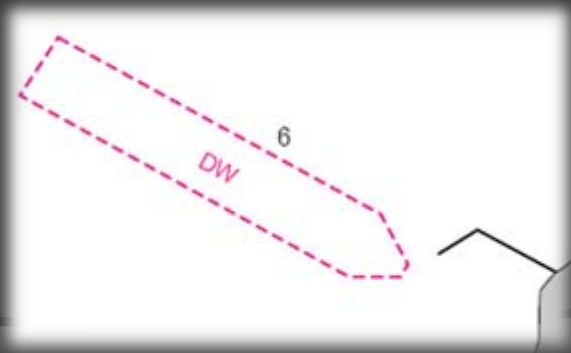
Preporučeni plovidbeni pravac
Recommended route



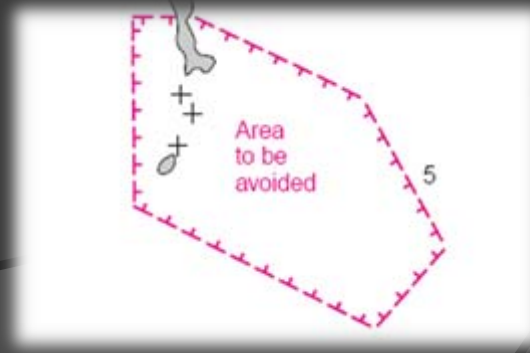
Dvosmjerni plovidbeni pravac
Two-way route



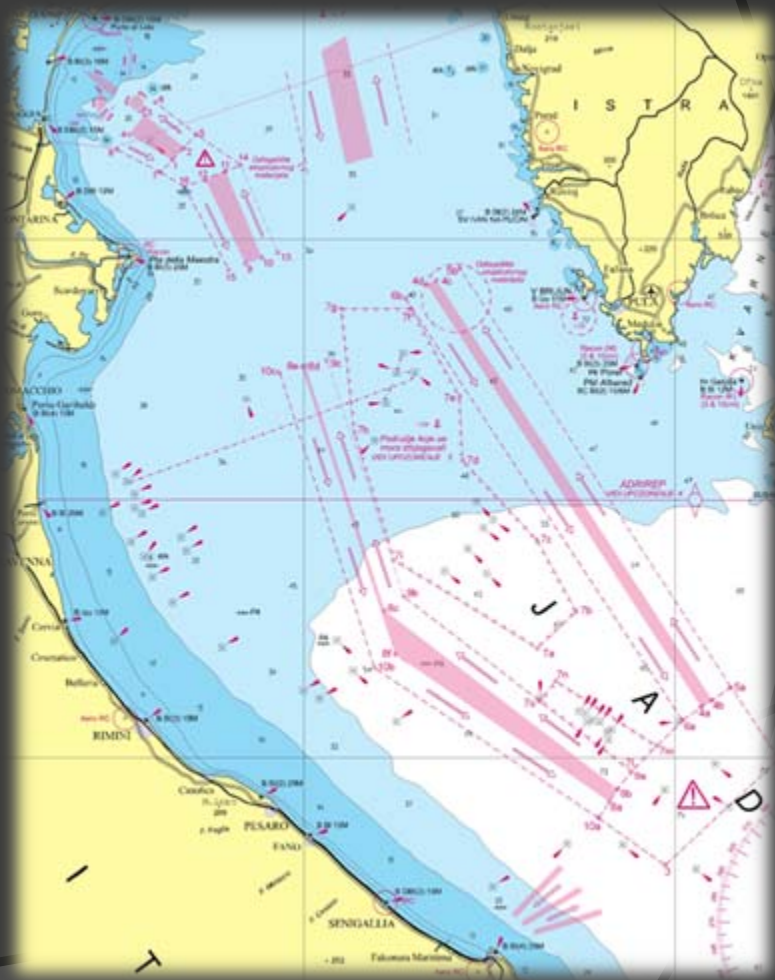
Plovidbeni pravac za brodove duboka gaza
Deep water route



Područja koja treba izbjegavati
Area to be avoided



Razvoj sustava usmjerene plovidbe na Jadranu



Mjere usmjeravanja plovidbe

Načela

- ⦿ Routes should follow **as closely as possible** existing patterns of traffic flow,
- ⦿ course alterations along the route should be **as few as possible**, and
- ⦿ convergence areas and route junctions should **be kept to a minimum** and should be **as widely separated from each other** as possible.
- ⦿ Route junctions and convergence areas **should not be placed** where crossing traffic is expected to be heavy.

Obveznost mjera usmjerene plovidbe

- ⦿ The proposal should clearly state whether the routing system is **being proposed as recommendatory or mandatory**. In submitting a proposal for a mandatory system, the Government concerned must provide the following additional information:
 - ⦿ .1 **Proper and sufficient justification** for making the system mandatory;
 - ⦿ .2 Whether the ports and harbours of littoral States would be **adversely affected by the system**; and
 - ⦿ .3 Whether the mandatory routing system is **limited to what is essential** in the interest of safety of navigation and protection of the marine environment.

SOLAS V/10

- 7 A ship shall use a mandatory ships' routeing system adopted by the Organization as required for its category or cargo carried and in accordance with the relevant provisions in force **unless there are compelling reasons** not to use a particular ships' routeing system. Any such reason **shall be recorded in the ships' log**.
- 8. Mandatory ships' routeing systems shall be reviewed by the Contracting Government or Governments concerned in accordance with the guidelines and criteria developed by the Organization.

Mjere usmjeravanja plovidbe u Jadranu

INTERNATIONAL MARITIME ORGANIZATION



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SUB-COMMITTEE ON SAFETY OF
NAVIGATION
49th session
Agenda item 3

NAV 49/3/7
27 March 2003
Original: ENGLISH

ROUTEING OF SHIPS, SHIP REPORTING AND RELATED MATTERS

Establishment of new recommended Traffic Separation Schemes and other new Routeing Measures in the Adriatic Sea

Submitted by Albania, Croatia, Italy, Slovenia and Serbia and Montenegro

SUMMARY

Executive summary: This document contains the joint proposal of Albania, Croatia, Italy, Slovenia and Serbia and Montenegro on the establishment of new recommended Traffic Separation Schemes/Recommended Routes system and other new Routeing Measures in the Adriatic Sea

Action to be taken: Paragraph 8

Related documents: Resolutions A.572(14) as amended, A.851(20) and A.857(20)

Sigurnosne zone

- ◉ Every coastal State which is aware of an infringement of the regulations relating to safety zones around offshore installations or structures under its jurisdiction **should take action in accordance** with international law and, where it considers necessary, **notify the flag State of the infringement allegedly committed by a vessel flying its flag** and provide available factual evidence to substantiate the allegation as follows:
 - ...

ATBA

- ⦿ A routeing measure comprising an area within defined limits in which either
 - navigation is particularly **hazardous** or
 - it is exceptionally important **to avoid casualties** and which should be avoided by all ships, or certain classes of ship .

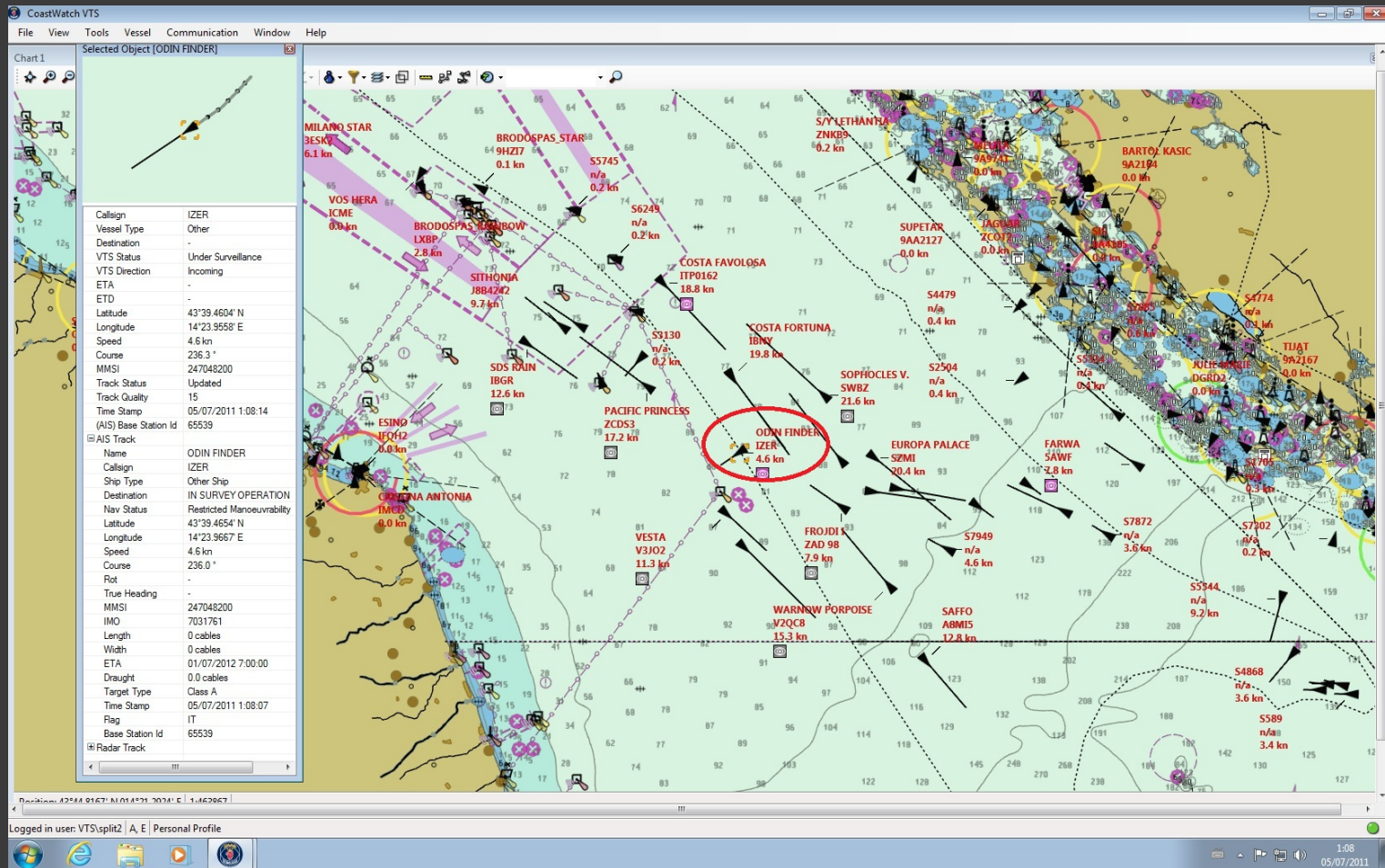
ATBA

- ⦿ When establishing areas to be avoided by all ships or by certain classes of ship, the necessity for creating such areas **should be well demonstrated** and the reasons stated.
- ⦿ In general, these areas should be established only in places where:
 - **inadequate survey or insufficient provision of aids** to navigation may lead to danger of stranding, or

ATBA

- where **local knowledge** is considered essential for safe passage, or
 - where there is the possibility that **unacceptable damage** to the environment could result from a casualty, or
 - where there might be **hazard to a vital aid** to navigation.
-
- ⦿ These areas **shall not be regarded as prohibited areas** unless specifically so stated;
 - ⦿ the classes of ship which should avoid the areas should be considered in each particular case.

VTS



VTS (SOLAS V/12)

- ◉ Vessel traffic services (VTS) **contribute to** safety of life at sea, safety and efficiency of navigation and protection of the marine environment, adjacent shore areas, work sites and offshore installations from possible adverse effects of maritime traffic.
- ◉ Contracting Governments undertake to arrange for the establishment of VTS where, in their opinion, the volume of traffic or the degree of risk justifies such services.

VTS (SOLAS V/12)

- ④ Contracting Governments planning and implementing VTS shall, wherever possible, follow the guidelines developed by the Organization. The **use of VTS** may only be made **mandatory in sea areas within the territorial seas** of a coastal State.
- ④ Contracting Governments **shall endeavour** to secure the participation in, and compliance with, the provisions of vessel traffic services by ships entitled to fly their flag.
- ④ Nothing in this regulation or the guidelines adopted by the Organization shall prejudice the rights and duties of Governments under international law or the legal regimes of straits used for international navigation and archipelagic sea lanes.

Mogući pravci razvoja

- ◎ Općenito, nema naznaka da će IMO bitno mijenjati postojeća načela usmjeravanja plovidbe.
- ◎ Na Jadranu je moguće razmotriti:
 - **proširenje** sustava usmjerene plovidbe prema:
 - području južnog Jadrana
 - području teritorijalnog mora i
 - unutrašnjih morskih voda,
 - **proglašavanje** postojećeg sustava obveznim, s mogućim uvođenjem mjera prisile.

Hvala na pažnji!

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