

MSDI NATIONAL REPORT CROATIA

14th MEETING OF THE IHO MARINE
SPATIAL DATA INFRASTRUCTURES
WORKING GROUP



Hydrographic Institute of
the Republic of Croatia



Ena Sarajlić
Daniela Staničić
Goran Strinić

STANDARDS

01

TECHNICAL STANDARDS

02

OGC STANDARDS

03

**ISO 19100 GEOGRAPHIC
INFORMATION STANDARDS**

04

**NATIONAL GEOSPATIAL
STANDARDIZATION**

05

INSPIRE

European geospatial harmonization

06

IHO S-57

07

IHO S-100



CURRENT DEVELOPEMENTS



NIPP (National SDI)

The State Geodetic
Administration of the
Republic of Croatia



Central access point
to open data

Metadata
(descriptions,
specifications and
conditions for access)



NDSI website

Search.
Show.
Share!

Anyone can easily find, understand and use
spatial data!



Enter keywords

[NDSI METADATA CATALOGUE >](#)



Explore the spatial data
around you!



[GEODHRVATSKA VIEWER](#)

865

METADATA RECORDS

438

NETWORK SERVICES

80

NDSI SUBJECTS

Contributions to NSDI

11

Datasets

19

Services

Pretraga ...

Usluga Skup podataka Niz

✕ Poništi zadanu pretragu

FILTER

Subjekti NIPP-a

Hrvatski hidrografski institut (30)

Vrsta izvora

Usluga (19)

Skup (9)

Niz (2)

Vrsta usluge

Preuzimanje (16)

Pregled (3)

Teme prostornih podataka

Sea regions (22)

Elevation (16)

Area management/restriction/regulation zones and reporting units (14)

Transport networks (13)

Geographical names (10)

prikaži više (2)

Ključna riječ

Sea regions (22)

Elevation (16)

Area management/restriction/regulation zones and reporting units (14)

Transport networks (13)

National (13)

prikaži više (10)

Mjerilo

5000 (4)

820 (2)



Male karte (Jadransko more – istočna obala) - WMTS



Male karte jedne su od izdanja Hrvatskog hidrografskog instituta službenih navigacijskih pomorskih karata, te prikazuju područje istočne obale Jadranskog mora od Tršćanskog zaljeva do Boke kotorske. Konstruirane su u mjerilu 1:100 000. Službene papirnatne pomorske navigacijske karte prikazuju određeno plovidbeno područje sa svim elementima za navigaciju. Njihova je upotreba obavezna u svrhu osiguravanja hidrografsko-navigacijske sigurnosti plovidbe. Zbog malog formata prikladne za manja plovila. Prodaju se u kompletima MK 1. i MK 2. te kao ma...

Hrvatski hidrografski institut

Zadnje ažuriranje: 19.07.2022



Male karte (Jadransko more – istočna obala)



Male karte jedne su od izdanja Hrvatskog hidrografskog instituta službenih navigacijskih pomorskih karata, te prikazuju područje istočne obale Jadranskog mora od Tršćanskog zaljeva do Boke kotorske. Konstruirane su u mjerilu 1:100 000. Službene papirnatne pomorske navigacijske karte prikazuju određeno plovidbeno područje sa svim elementima za navigaciju. Njihova je upotreba obavezna u svrhu osiguravanja hidrografsko-navigacijske sigurnosti plovidbe. Zbog malog formata prikladne za manja plovila. Prodaju se u kompletima MK 1. i MK 2. te kao ma...

Hrvatski hidrografski institut

Zadnje ažuriranje: 15.07.2022



Katalog pomorskih karata HHI-a - WFS



Katalog pomorskih karata pruža uvid u sve izdane pomorske karte HHI prostorne i tekstualne informacije o njihovoj izradi, izdavanju i održavanju hidrografskog instituta prodaju isključivo ovlašteni distributeri (www.hhi.hr)

Hrvatski hidrografski institut

Zadnje ažuriranje: 15.07.2022



Katalog pomorskih karata HHI-a



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Hrvatski hidrografski institut

Zadnje ažuriranje: 15.07.2022



INSPIRE

Croatian MSDI relates to the INSPIRE Directive and the International Hydrographic Organization (IHO) initiative

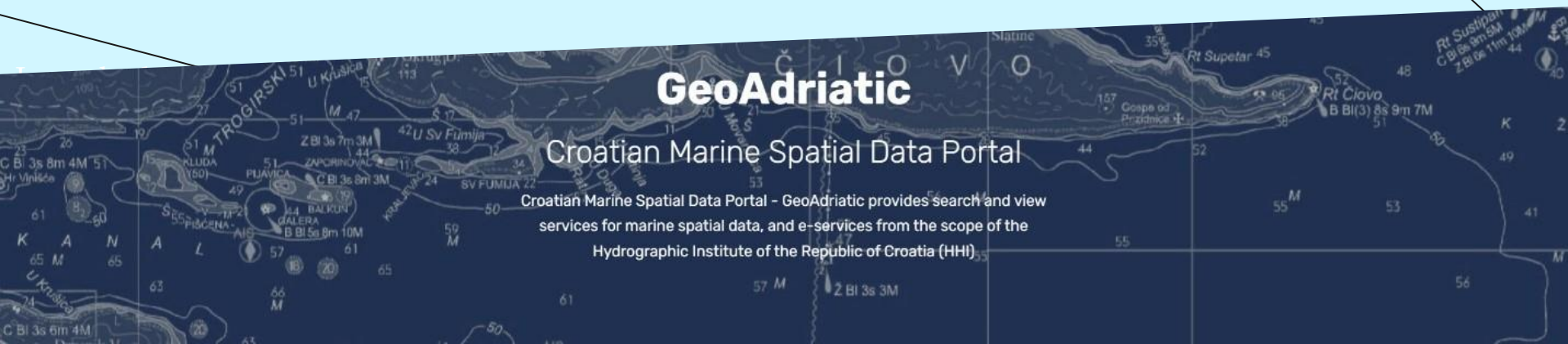
The screenshot shows the INSPIRE Geoportal interface. At the top, there is a navigation bar with the European Commission logo and the text 'INSPIRE GEOPORTAL Enhancing access to European spatial data'. Below this is a breadcrumb trail: 'European Commission > INSPIRE > Geoportal'. A secondary navigation bar contains links for 'Home', 'Priority Data Sets Viewer', 'Thematic Viewer', 'Harvesting status', and 'Find out more about'. The main content area is titled 'Morska područja Jadranskog mora' and includes a 'Metadata' button and a 'Country: Croatia' filter. A 'Show metadata fields in:' dropdown is set to 'original MD language'. The metadata details are organized into sections: 'Download Options', 'View Options', and 'Data set Metadata'. The 'Data set Metadata' section is divided into two columns. The left column contains: 'Resource Title' (Morska područja Jadranskog mora), 'Resource Abstract' (a detailed description of the maritime boundaries dataset), 'Lineage' (Temeljna baza Hrvatskog hidrografskog instituta), 'Unique Resource Identifier' (Code: https://geoportal.nipp.hr/hr/nipp/pp/0948, Namespace: [not available]), 'Spatial Data Theme' (Geographical names, Sea regions), and 'Topic Category' (location, oceans). The right column contains: 'Reporting Tags' (Priority Dataset, Spatial Scope), 'Conditions Applying To Access And Use' (Bez ograničenja uz navođenje izvora), 'Limitations On Public Access' (nema ograničenja javnom pristupu), 'Geographic Bounding Box' (with a map of the Adriatic region), 'Responsible Party' (Organisation name: Hrvatski hidrografski institut, E-mail: office@hhi.hr), and 'Metadata Point Of Contact' (Organisation name: Hrvatski hidrografski institut, E-mail: nipp@hhi.hr).

APPLICATIONS



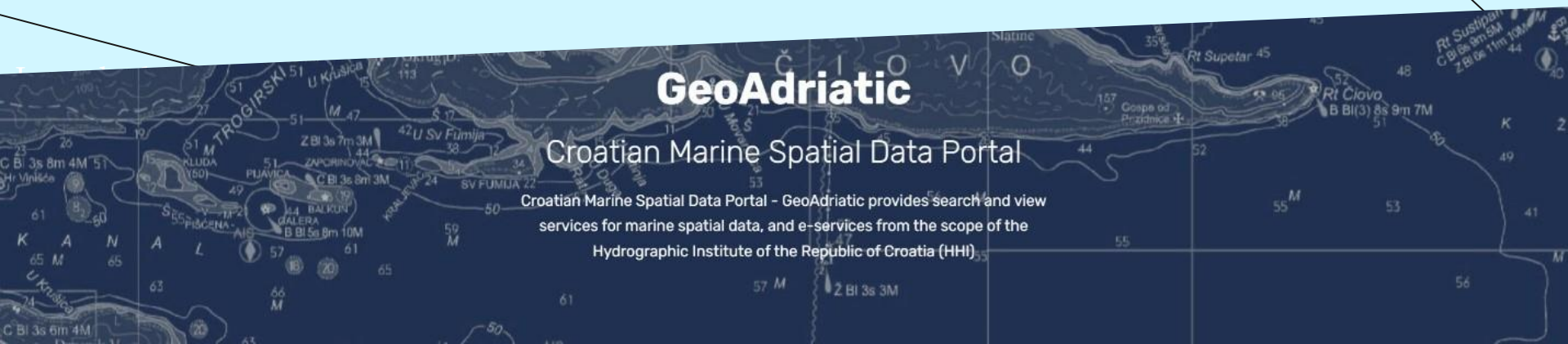
GeoAdriatic

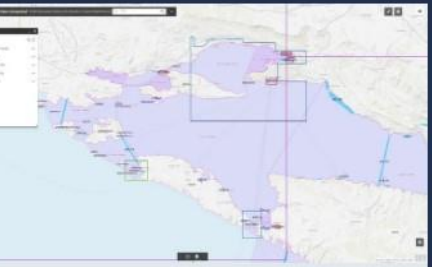
- Launched on 5.12.2019.
- Searching and viewing marine data services
- E-services



GeoAdriatic

- Traffic Separation Scheme
- Marine Geographical Names
- Coastline
- Sea Regions
- Navigational Warnings
- Official Hydrographic Survey Browser
- Small Craft Charts
- Port Authority
- Navigational Chart Coverage Catalogue
- Etc.

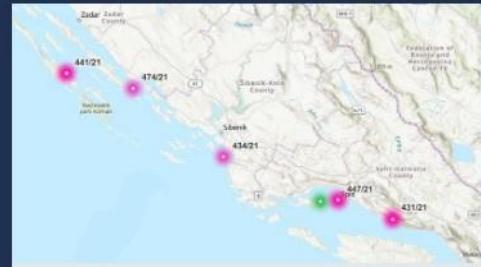




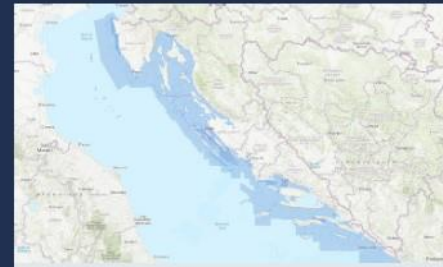
Croatian Marine Data Geoportal
Cro MSDI



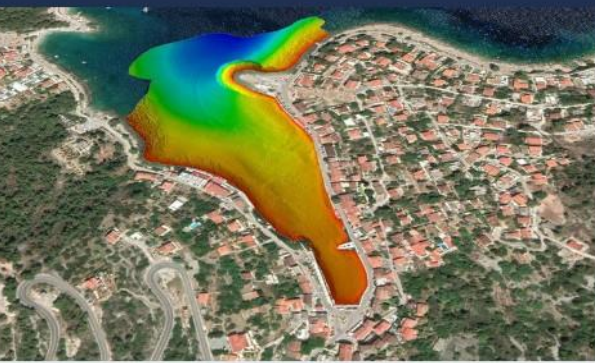
Geoportal for Mariners and Sailors



Navigational Warnings



Official Hydrographic Survey Browser



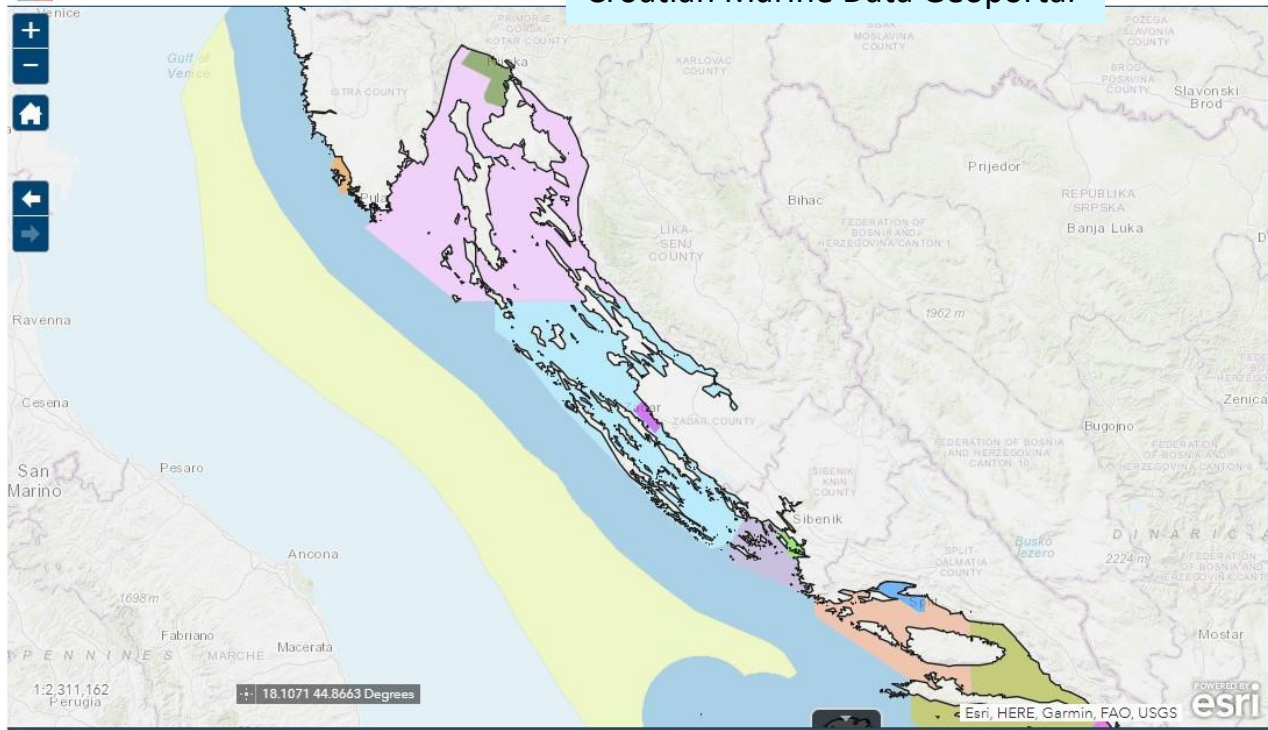
Register of Hydrographic Surveys by Authorized Legal Entities



Adriatic Sea - Operational Oceanography Portal

| Chart No. | Chart Name | Scale | Year | Depth | Chart Type |
|-----------|------------|-----------|------|-------|------------|
| 100 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 101 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 102 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 103 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 104 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 105 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 106 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 107 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 108 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 109 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |
| 110 | Čakmačnik | 1:100,000 | 1984 | 100 | Chart |

Croatian Navigational Chart Coverage Catalogue



Legend

Layers

- Obalna crta
- Lučke kapetanije i ispostave
- Područja nadležnosti lučkih kapetanija
- VTS
 - Sektor A
 - Sektor B
 - Sektor manevriranja Dubrovnik
 - Sektor manevriranja Ploče
 - Sektor manevriranja Pula
 - Sektor manevriranja Rijeka
 - Sektor manevriranja Split
 - Sektor manevriranja Zadar
 - Sektor manevriranja Šibenik
 - Sektor upravljanja Dubrovnik
 - Sektor upravljanja Ploče
 - Sektor upravljanja Rijeka
 - Sektor upravljanja Split
 - Sektor upravljanja Zadar
 - Sektor upravljanja Šibenik
- Adriatic Traffic System ATS (ADRIREP)
- Morska područja
- Katalog - Navigacijske karte
- Katalog - Elektroničke navigacijske karte
- Registar HI OPO v2

VTS

Options Filter by map extent Zoom to Clear selection Refresh

| Identifikator | Naziv | IS | TOS | Pozivni | VHS kanal (glavni) |
|---------------|----------------------------|------------|-----|----------------|--------------------|
| | Sektor A | po potrebi | ne | VTS CROATIA | 10 |
| | Sektor B | da | ne | VTS CROATIA | 10 |
| | Sektor manevriranja Ploče | po potrebi | ne | PLOČE TRAFFIC | 9 |
| | Sektor manevriranja Pula | po potrebi | ne | PULA TRAFFIC | 9 |
| | Sektor manevriranja Rijeka | po potrebi | ne | RIJEKA TRAFFIC | 9 |

Navigational Warnings

Navigacijski radiooglasji

The Service of Radio Navigational Warnings on this website cannot be a substitute for monitoring Radio Navigational Warnings through coastal radio stations or via other IMO/IHO approved broadcast systems, nor does it relieve masters and/or crew members of their responsibility to monitor these.

Radio Navigational Warnings and all other information published on this page shall not be considered as official information for the safety of navigation.

Hydrographic Institute of the Republic of

17/2023 - in-force

Category: local navigational warning
Region: MIDDLE ADRIATIC - ŠIBENSKI KANAL
Charts: 100-21; PLAN 533
Date: 2023-01-11T07:40:19

FROM JANUARY 11TH UNTIL JANUARY 16TH 2023., R/V HIDRA PERFORMS BATHYMETRIC SURVEY IN AREA FROM PRIMOŠTEN TO KRAPANJ ISLAND. NAVIGATION IN 200 METERS RADIUS FROM VESSEL PROHIBITED. WIDE BERTH REQUESTED.

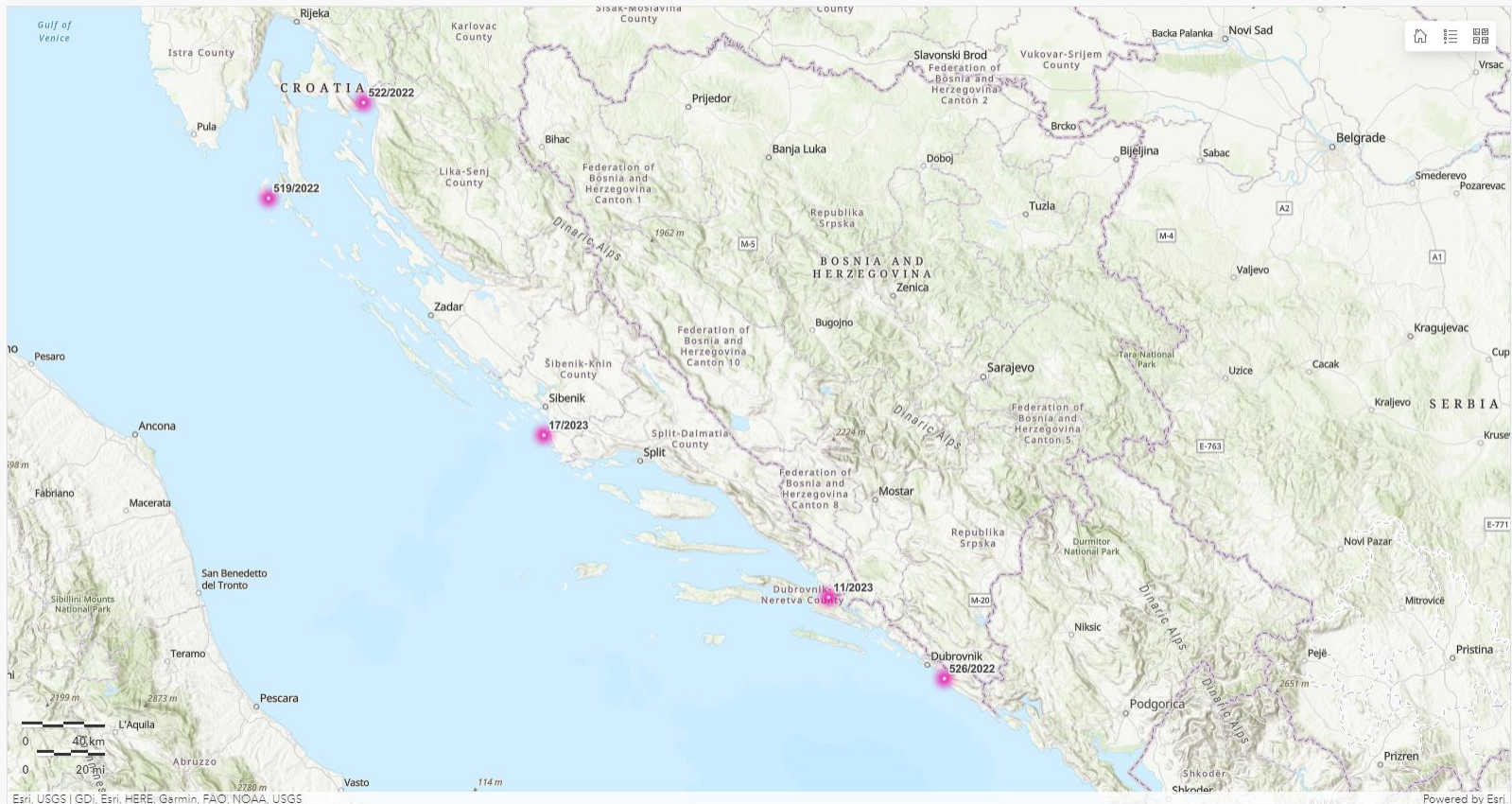
11/2023 - in-force

Category: local navigational warning
Region: MIDDLE ADRIATIC - MALI STON-MALO MORE
Charts: 100-27
Date: 2023-01-10T07:45:05

BRIDGE COAST - PELJEŠAC, APPROACH LIGHT BOUY NUMBER 7, STARBOARD HAND, LL 675,17 MISSING. WIDE BERTH REQUESTED.

526/2022 - in-force

Category: local navigational warning
Region: SOUTH ADRIATIC - CAVTAT
Charts: 100-28
Date: 2022-12-29T10:06:45



Register of Hydrographic Surveys by Authorized Legal Entities



REGISTAR HIDROGRAFSKIH IZMJERA OVLAŠTENE PRAVNE OSOBE

Status:

[NESLUŽBENO](#)

[OBAVIJEST](#)

[PREKID](#)

[SLUŽBENO](#)

[U POSTUPKU](#)

Razdoblje:

5/31/1996 and after

OPO:

SVI

OPO ELABORATI

2022_076 - (11.20 ha) **U POSTUPKU**

Hidrografska izmjera stvarnog stanja na dan 06.12.2022. Luka Stari Grad - otok Hvar

2022_075 - (1.17 ha) **OBAVIJEST**

Hidrografska izmjera postojećeg stanja uvala Mrtovac - otok Kaprije

2022_075 - (2.16 ha) **OBAVIJEST**

Hidrografska izmjera postojećeg stanja uvala Mrtovac - otok Kaprije

2022_075 - (2.29 ha) **OBAVIJEST**

Hidrografska izmjera postojećeg stanja uvala Nozdra Vela - otok Kaprije

2022_074 - (24.54 ha) **OBAVIJEST**

Hidrografska izmjera postojećeg stanja luke Rabac u svrhu projektiranja i aužuriranja službenih izdanja HHI-a

2022_073 - (1.47 ha) **OBAVIJEST**

Hidrografska elaborat podorskog ispusta u turističkom naselju Alan - Starigrad Paklenica

2022_072 - (12.35 ha) **SLUŽBENO**

Hidrografska izmjera stvarnog stanja na dan 18.10.2022 Sustav odvodnje fekalnih voda naselja Maslinica - otok Šolta (podloga za projektiranje)

2022_071 - (0.94 ha) **SLUŽBENO**

Geodetsko-hidrografska izmjera stvarnog stanja lučkog područja na dan 05.10.2022. Luka otvorena za javni promet-Trsteno

2022_070 - (0.45 ha) **SLUŽBENO**

Geodetsko-hidrografska izmjera stvarnog stanja lučkog područja na dan 05.10.2022. Luka otvorena za javni promet-Orašac

2022_069 - (0.38 ha) **SLUŽBENO**

Izvedeno stanje lučkog iskopa veza br. 2 - Cemex Kaštel Sućurac

2022_068 - (23.90 ha) **U POSTUPKU**

Hidrografska izmjera za trasu polaganja - ZAMJENA PKB 20 kV TS SRAKANE VELE - TS UNIJE

2022_067 - (0.50 ha) **U POSTUPKU**

Geodetska i hidrografska izmjera područja ispusta UPOV-a

[ELABORATI](#)

[IZMJERENE POVRŠINE](#)

SLUŽBENO: 322

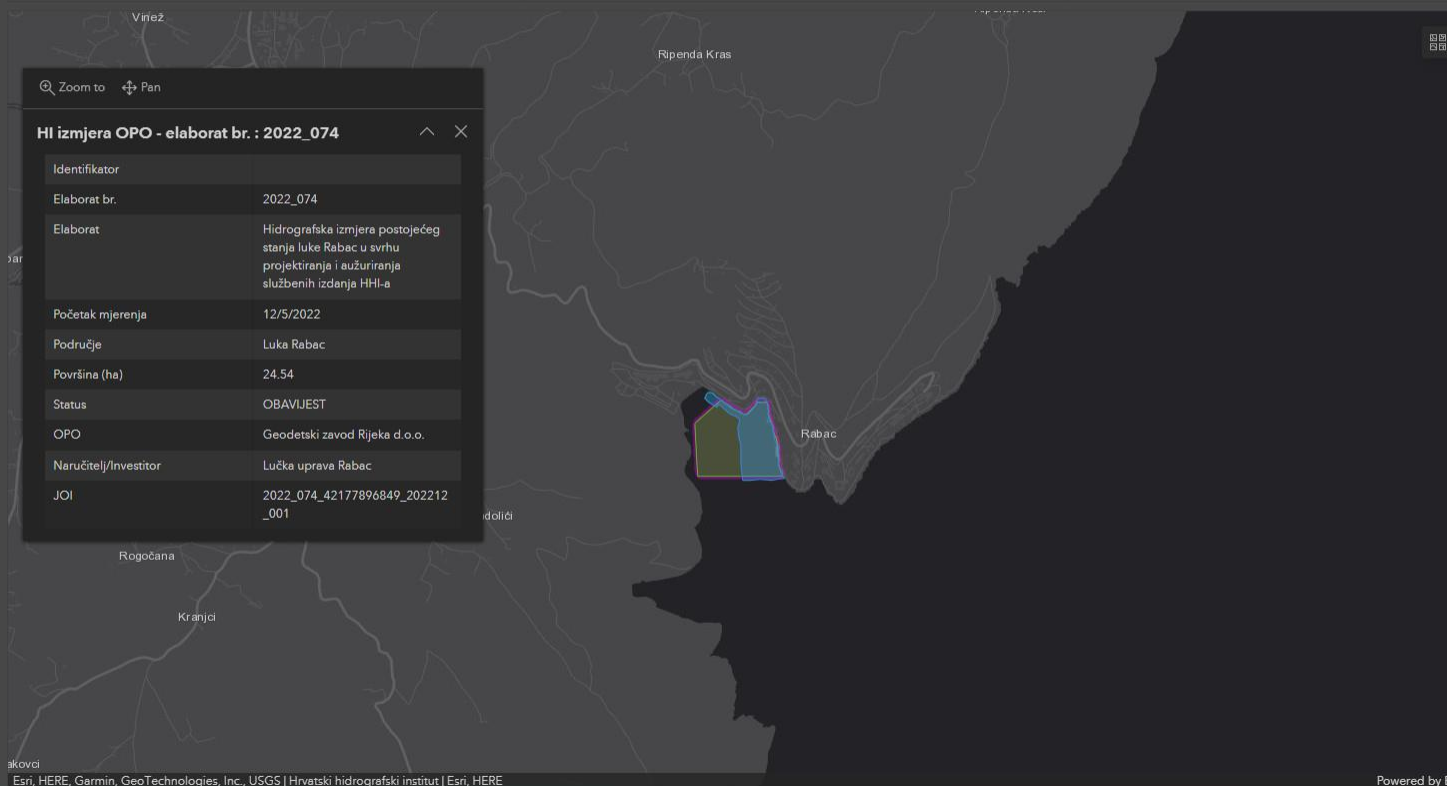
NESLUŽBENO: 489

U POSTUPKU OVJERE: 4

OBAVIJEST : 10

PREKID: 7

UKUPNO: 832



CNS

- Cro Nav Support
- Mobile app
- Notice to Mariners
- Radio Navigational Warnings



Notice to Mariners - NtM



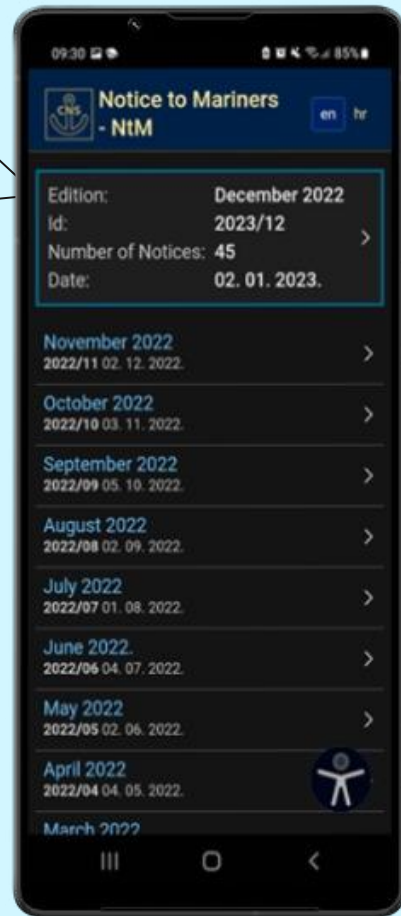
Radio Navigational Warnings



Share application



Info



Adriatic Sea

- Real-time Oceanographic data application
- Tides and Tide prediction
- Waves
- Wind
- Pressure


Entrance for unregistered users

Registered users

Username

Password

Login



Adriatic Sea
**Portal of operational
oceanography**

Tide Gauge Stations – Real Time Data

ADRIATIC SEA



Station

MP Ploče

REFERENCE LEVEL

Hidrografska nula / H0

High and Low waters [m]

| | | | |
|------------------|----|-------|---|
| 12.01.2023 13:17 | LW | 0.074 | ↕ |
| 12.01.2023 06:06 | HW | 0.396 | ↕ |
| 11.01.2023 23:52 | LW | 0.197 | ↕ |
| 11.01.2023 19:09 | HW | 0.287 | ↕ |
| 11.01.2023 12:50 | LW | 0.066 | ↕ |
| 11.01.2023 05:40 | HW | 0.430 | ↕ |
| 10.01.2023 23:10 | LW | 0.175 | ↕ |
| 10.01.2023 18:30 | HW | 0.274 | ↕ |

MP Ploče, Tide gauge station

Last data
11.01.2023 15:00

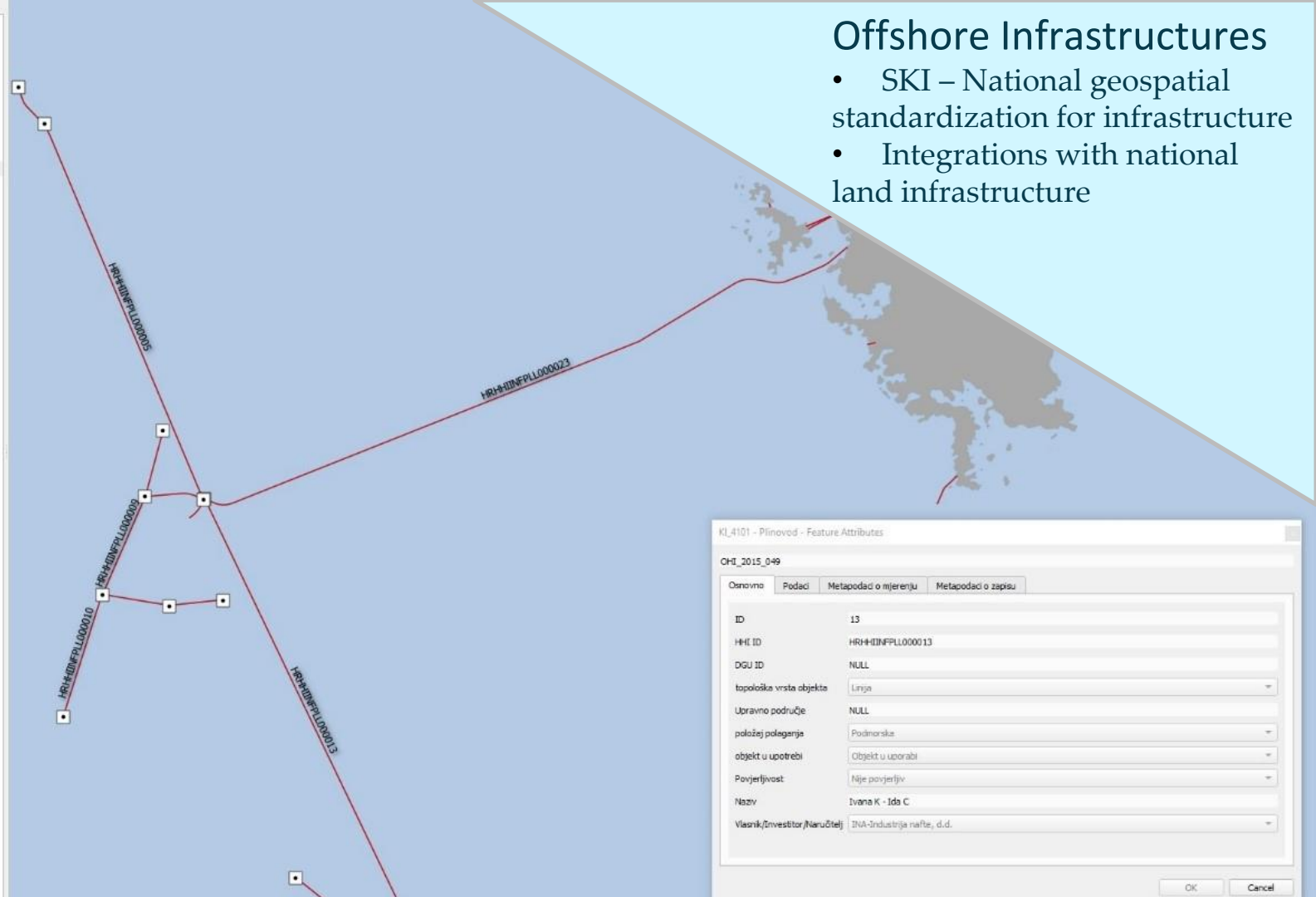
Station time
11.01.2023 15:06



Sva vremena odnose se na srednjoeuropsko vrijeme (UTC + 1)

Hrvatski hidrografski institut

- OSOBE
- Nafta
 - KL_9102 - NF Detaljne točke
 - KI_5101 - Naftovod
 - KL_9105 - NF Priobalna zaštita
- Plin
 - KI_4112 - Pl Bušotina
 - KI_4104 - Pl Stanica (Platforma)
 - KI_4103 - Pl Spremišta plina
 - KL_9102 - Pl Detaljne točke
 - KI_4101 - Plinovod
 - KL_9105 - Pl Priobalna zaštita
- Odvodnja
 - KL_9102 - OD Detaljne točke
 - KI_7101 - Odvodni vod
 - KL_9105 - OD Priobalna zaštita
- Vodoopskrba
 - KL_9102 - VC Detaljne točke
 - KI_6101 - Vodoopskrbni cjevovod
 - KL_9105 - VC Priobalna zaštita
- Telekomunikacije
 - KL_9102 - EK Detaljne točke
 - KI_2103 - Elektroničke komunikacije
 - KL_9105 - EK Priobalna zaštita
- Elektroenergetika
 - KL_9102 - EE Detaljne točke
 - KI_1101 - Elektroenergetski vod
 - KL_9105 - EE Priobalna zaštita
- Ostala infrastruktura
- Hidrografske izmjere
- Odobalni uređaji
 - Za eksport
 - ENC - HHl
 - Opća karta
- Podloge
 - HCK
 - DOF 2017, 2018
 - DOF
 - TK25
 - OpenStreetMap
 - Bing Aerial
 - Google Satellite



Offshore Infrastructures

- SKI – National geospatial standardization for infrastructure
- Integrations with national land infrastructure

KI_4101 - Plinovod - Feature Attributes

OH1_2015_049

| Osnovna | Podaci | Metapodaci o mjerenju | Metapodaci o zapisu |
|-------------------------------|----------------------------|-----------------------|---------------------|
| ID | 13 | | |
| HHI ID | HRH4IDNFPL000013 | | |
| DGU ID | NULL | | |
| topološka vrsta objekta | Linija | | |
| Upravno područje | NULL | | |
| položaj poleganja | Podmorska | | |
| objekt u upotrebi | Objekt u uporabi | | |
| Povjerljivost | Nije povjerljiv | | |
| Ime | Ivana K - Ida C | | |
| Vlasnik/Investitor/Naručitelj | INA-Industrija nafte, d.d. | | |

OK Cancel

WEB ANALYTICS IN 2022

13.049

Navigational Warnings

9.595

Register of Hydrographic
Surveys by ALE-s

1.860

Croatian Marine Spatial
Data Portal

1.360

Croatian Navigational Chart
Coverage Catalogue

1.218

Geoportal for Mariners
and Sailors

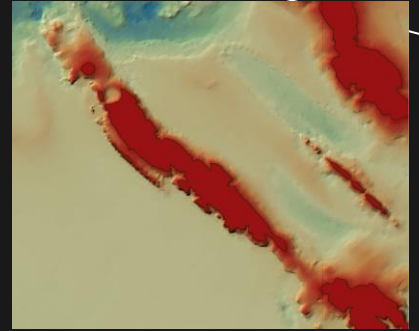
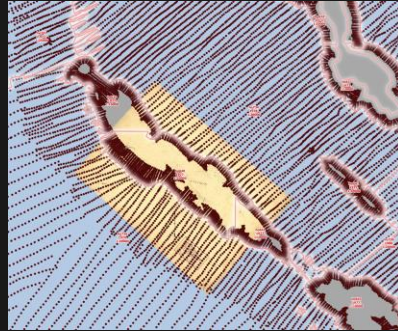
858

Official Hydrographic
Survey Browser

**DISCOVERING AND
ORGANISING DATA
AND METADATA**

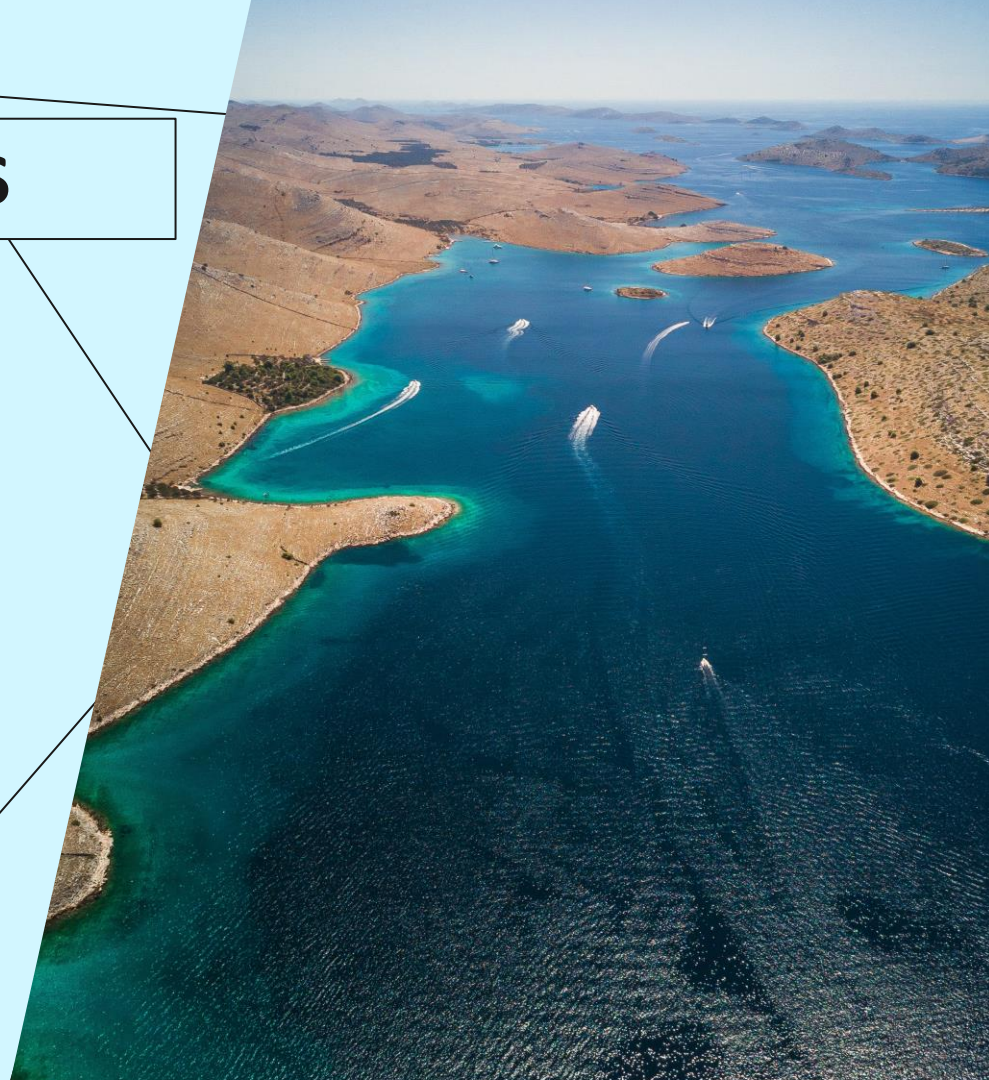


- Vectorizing data
- Metadata discovery
- Work in progress



FUTURE DEVELOPMENTS

- New advanced map application
- New data sources and services
- S-100 ready



Links

<https://www.hhi.hr/>

<https://geoadriatic.hhi.hr/>

<https://adriaticsea.hhi.hr/>

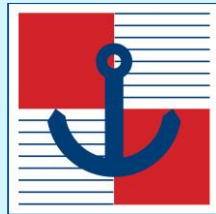
<https://cns.hhi.hr/>

Contact

ena.sarajlic@hhi.hr

daniela.stanicic@hhi.hr

goran.strinic@hhi.hr



Hydrographic Institute of
the Republic of Croatia