

Visual Notices to mariners & Navigational Warnings

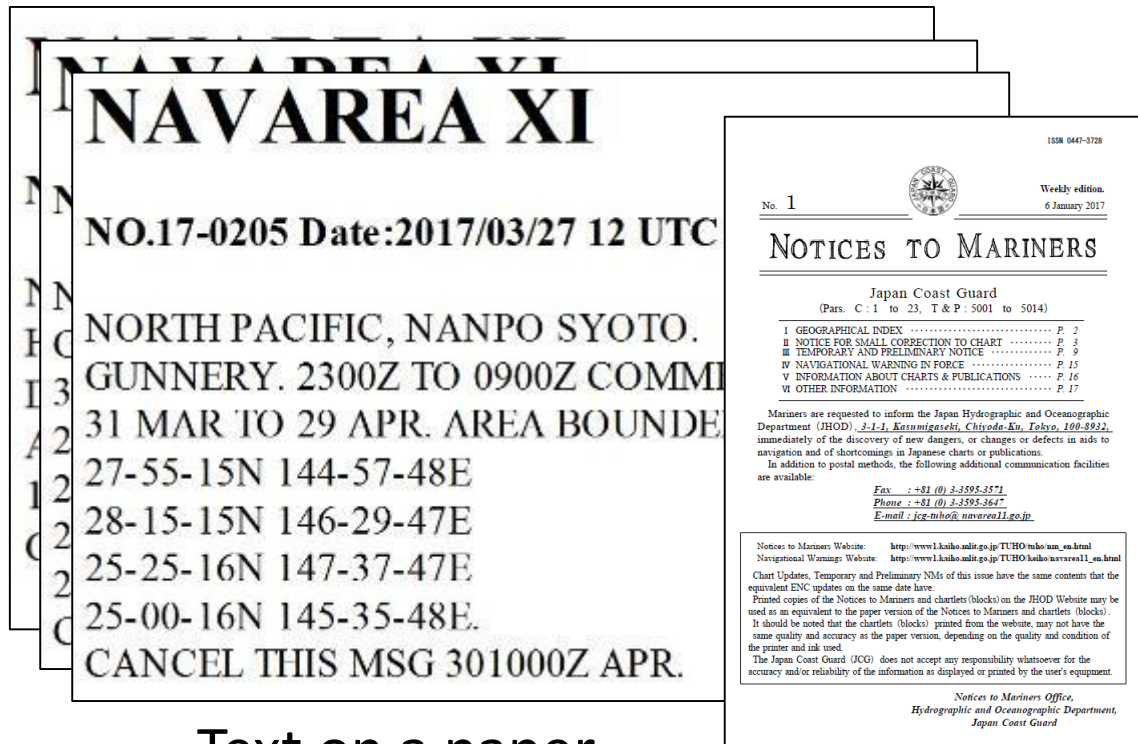
29 AUG, 2017



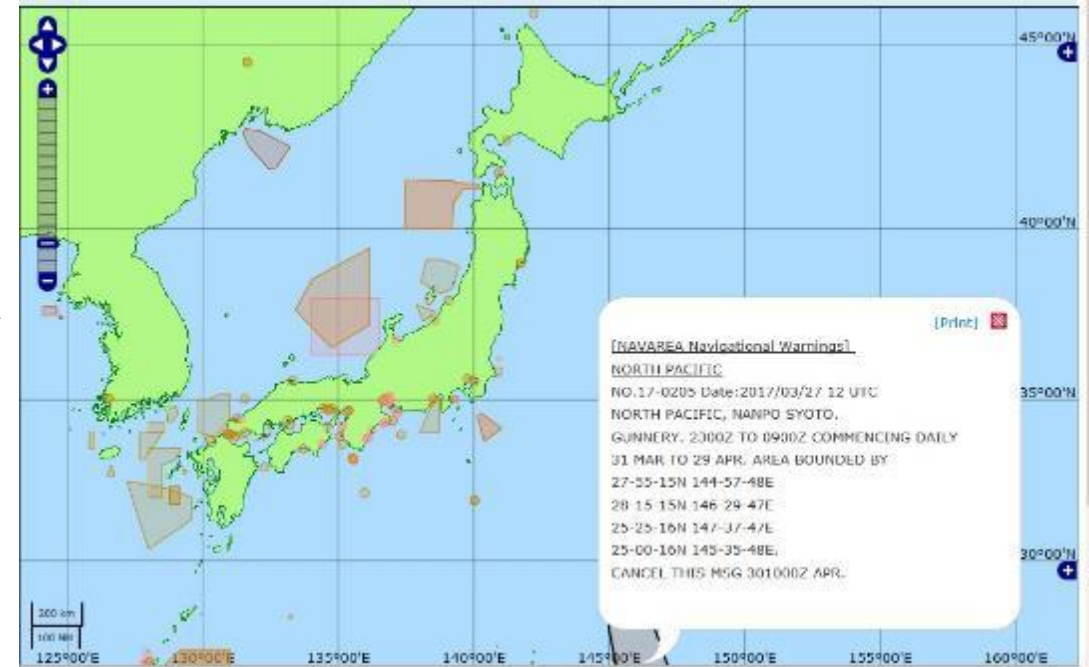
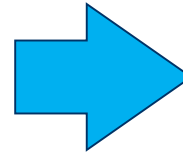
Hydrographic and Oceanographic Department

JAPAN COAST GUARD

Talking about:
Visual Notices to Mariners & Navigational Warning System



Text on a paper



Text information shown on map

http://www1.kaiho.mlit.go.jp/TUHO/vpage/visualpage_en.html

How to use text info of Navigational Warnings(NW) and Notices to Mariners(NtM)

**** (T)/17. Keihin ko, Tokyo Ku, Section 4
Entry Prohibited Area designated.
Until 31 March 2018

Bounded by line joining five positions and by the shore

(1) 35-35-20.2N 139-49-55.9E

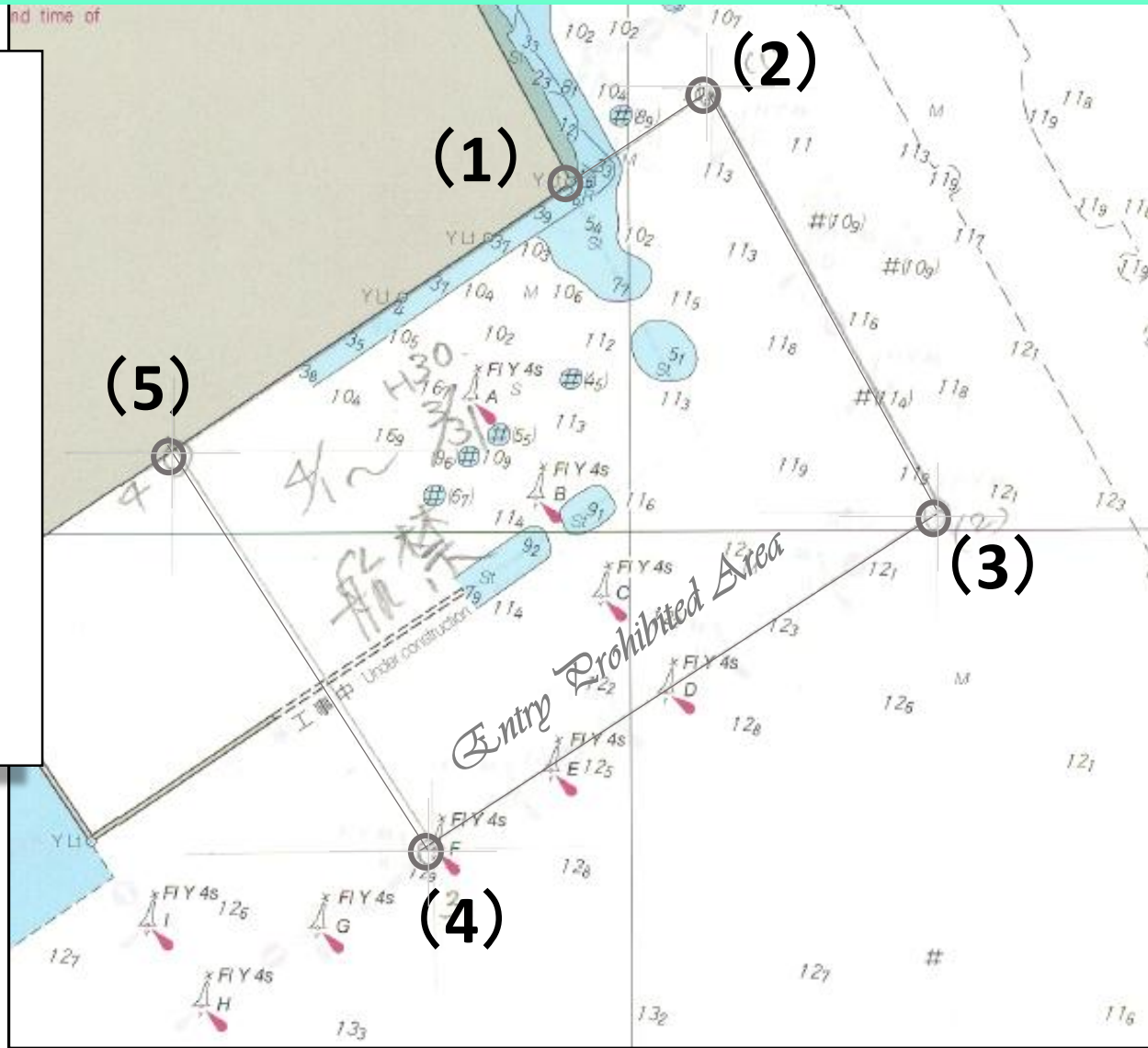
(2) 35-35-25.6N 139-50-05.9E

(3) 35-35-01.0N 139-50-21.7E

(4) 35-34-41.6N 139-49-45.9E

(5) 35-35-04.6N 139-49-27.2E

Harbour construction works are in progress in the area above.



Plotting to chart with triangles and dividers and maintenance of warnings on chart is troublesome for mariners.

Problem and way to solve

- Problem:

- Problem of the users of navigational warnings
 - It is troublesome to check a navigational warning manually.
 - It is troublesome to maintain what warning is in force or not.
- Problem of the officer of providing navigational warnings
 - The officers have to make the visual file spending a lot of time.

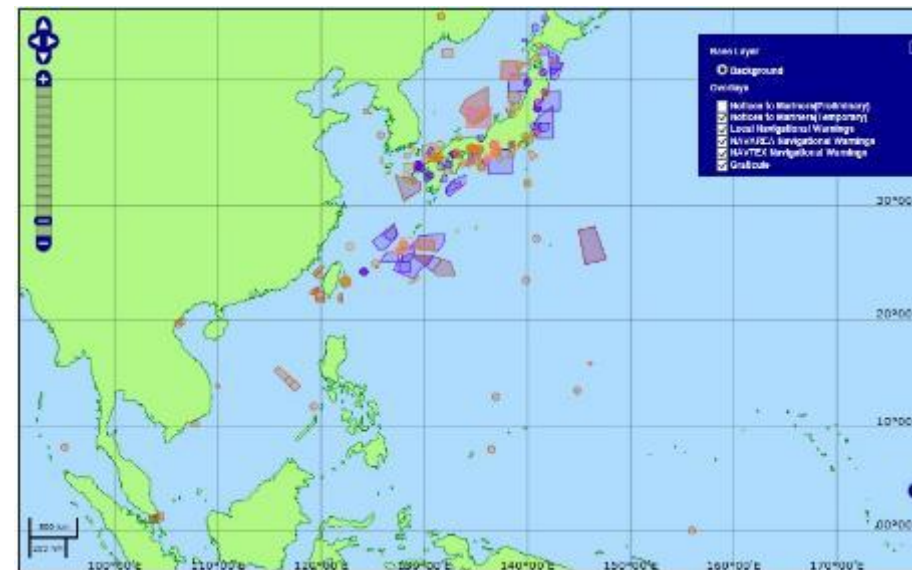


- Way to solve:

- Install a system of Navigational Warnings on a map on website easy to access with usual web browser on Internet.
- The map shows navigational warnings in force
- Design that a step to edit the location (type of shape, latitude and longitude) is just addition to the task.

The Overview of visual system

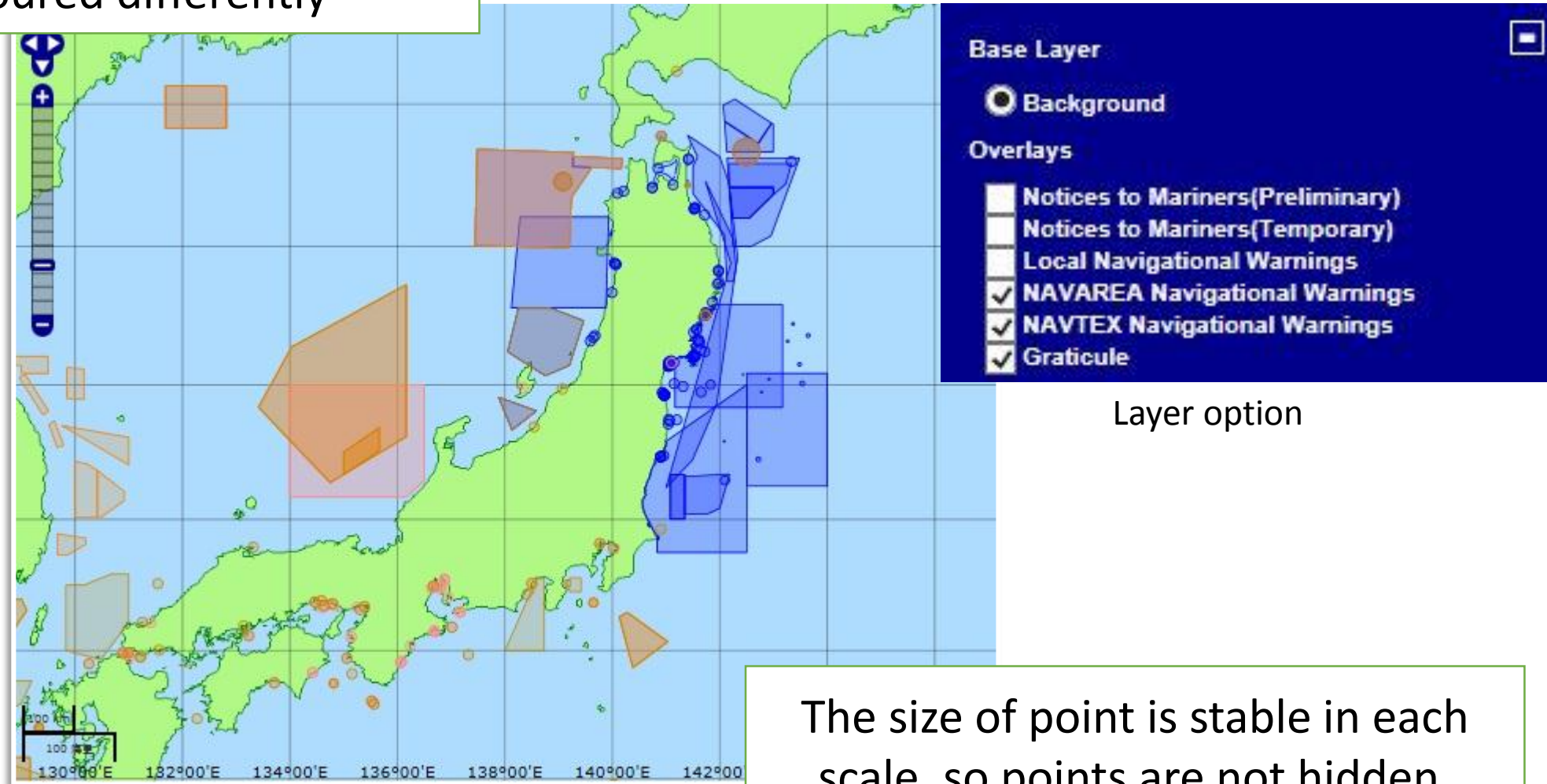
- Service area
 - NAVAREA XI area
- Providing information(English version)
 - information issued from Japan in force
 - NAVAREA (XI)
 - NAVTEX
 - Local warning
 - Notices to Mariners(T)(P)
 - We also manage a Japanese page.
- How to access the information
 - With web browser on Internet
- Service started
 - 2014 June



Service area

The characteristic of visual system

Each type of NW or NtM is a layer and coloured differently



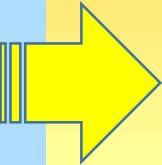
The size of point is stable in each scale, so points are not hidden.

The characteristic of visual system

Visual characteristic

Popup and Print

CLICK !



[NAVTEX Navigational Warnings]
HONSHU
NO.17-0460 Date:2017/03/01 01 UTC
HONSHU, E COAST. OFUNATO KO.
LIGHT ESTABLISHED,
A. 39-01-11N 141-43-59E,
FL R 3SEC 5 MILES,
B. 39-01-04N 141-43-56E,
FL (2) G 5SEC 7 MILES.
TEMPORARY LIGHT BUOY REMOVED.
CANCEL 1910/11.

Print

Pop up

Shore option

Indicate
along shore

Shape of area

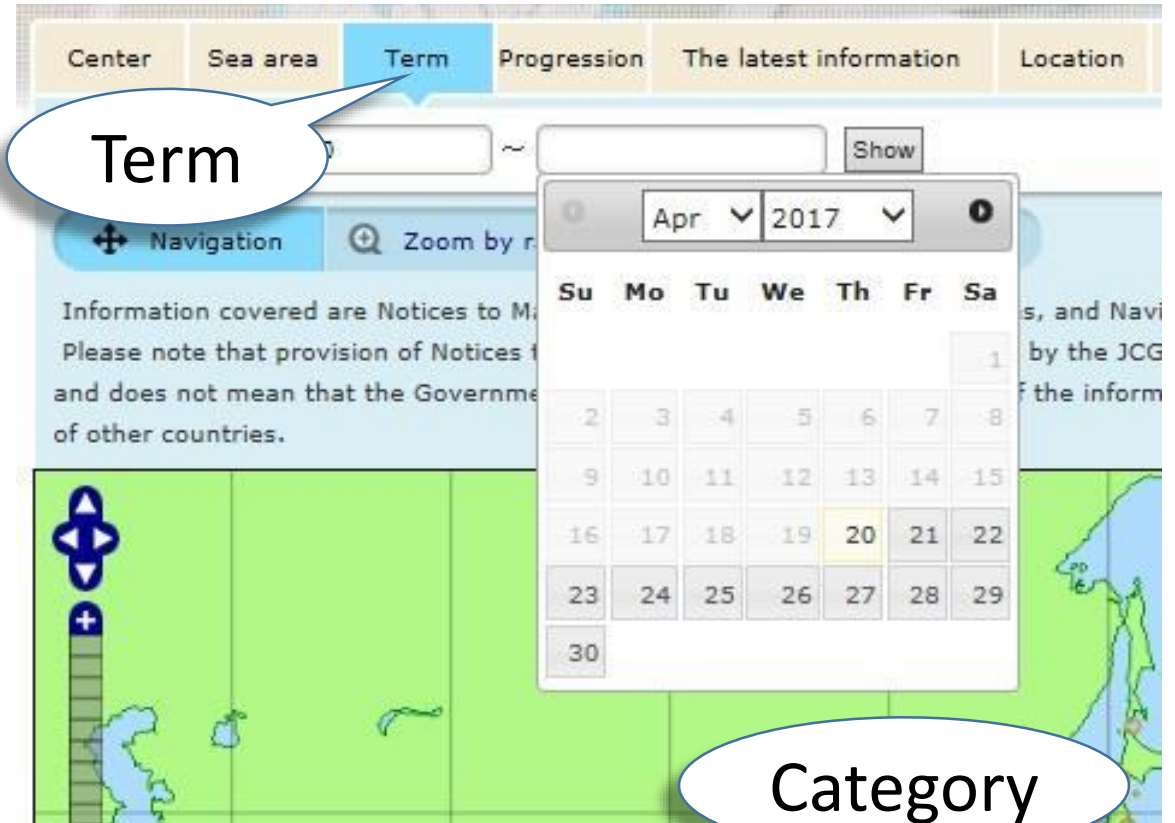
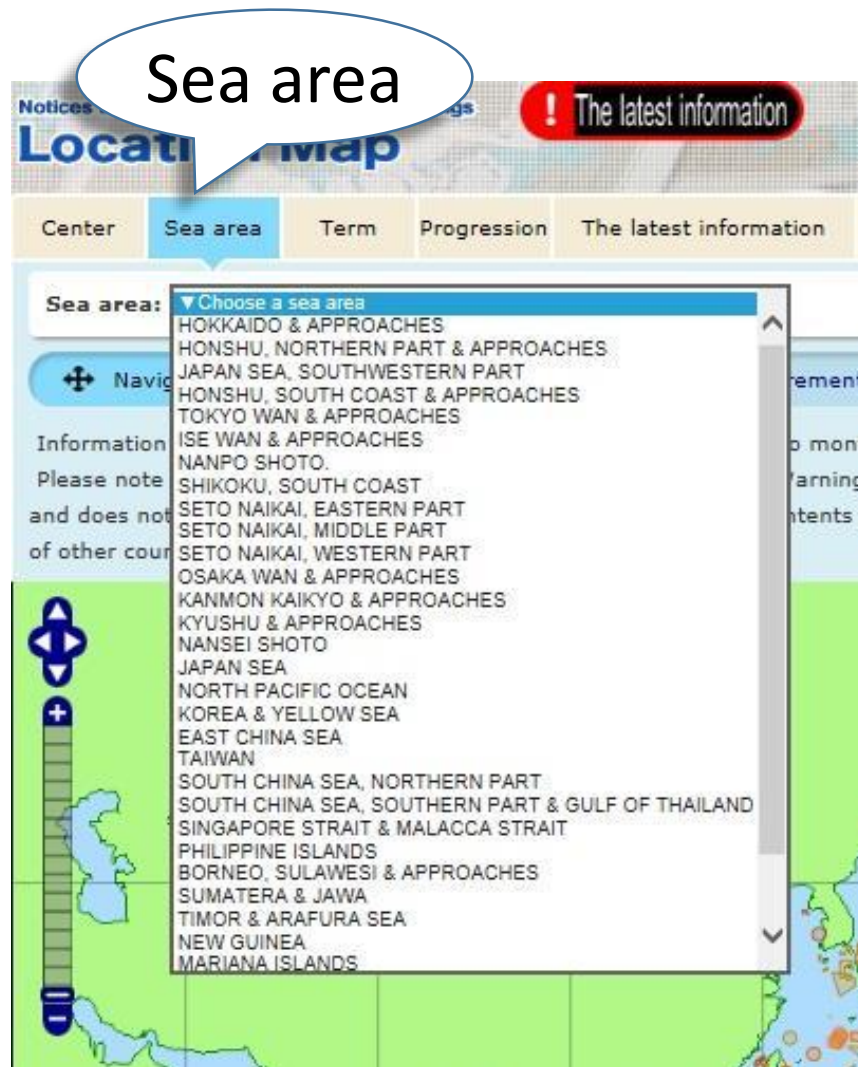
Line

Polygon

Fan shape

The characteristic of visual system

Filtering function



How to edit information for both existing method and “visual” web page

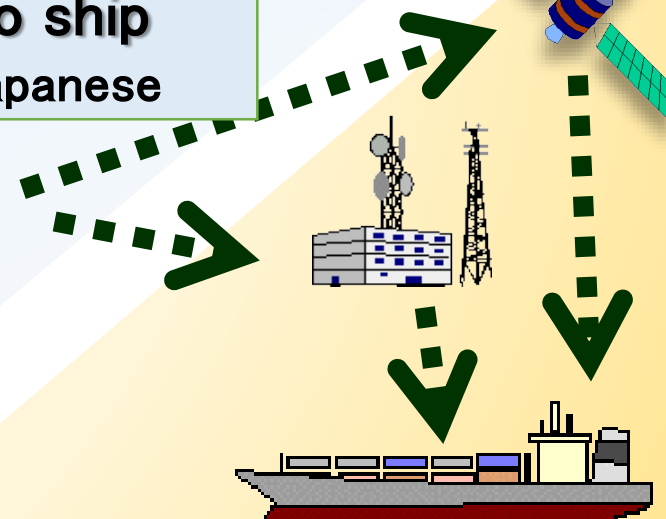


1. Text

200500UTC APR 2017 ISSUED AT
APR 2017 VOLCANIC WARNING
VOLCANO NAME:NISHINO SHIMA
LOCATION:27-14.6N 140-52.7E
WARNING WITHIN A RADIUS OF 0.9 MILES OF
ABOVE LOCATION.

噴火による影響が及ぶおそれ 上記位置を中心とする半径0.9海里域内の周辺海域警戒

Directly to ship
English & Japanese



2. Location

Easy to
check

Our Website
English & Japanese



- Inputting the location is added to already established work flow, and data is uploaded.
- Officers can check mistyping of the location on map.
- The location data is used for NW or NtM in both Japanese and English version.

Impossible or no display case of visualization for example

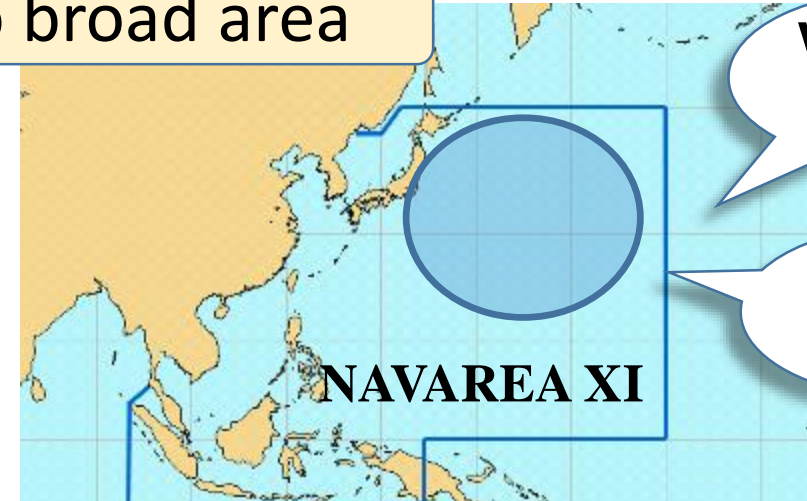
No Location

No. →

[Navigational Warnings] No.17-311
NAVAREA XI WARNING MESSAGES IN FORCE 061200Z
MAY. ONLY THOSE MESSAGES ISSUED
NO.17-0311 Date:2017/05/06 12 UTC
NAVAREA XI WARNING MESSAGES IN FORCE
061200Z MAY. ONLY THOSE MESSAGES ISSUED
DURING LAST SIX WEEKS ARE LISTED HEREIN.
0219 0221 0241 0261 0263 0278 0280 0286
0289 0294 0296 0298 0302 0308 0310/17.
THE COMPLETE TEXT OF ALL IN FORCE
NAVAREA XI WARNINGS ARE AVAILABLE FROM
THE JHOD WEBSITE "HTTP://WWW1.KAIHO.

List of Navigational Warning in force
(No. of warnings are on it)

Too broad area

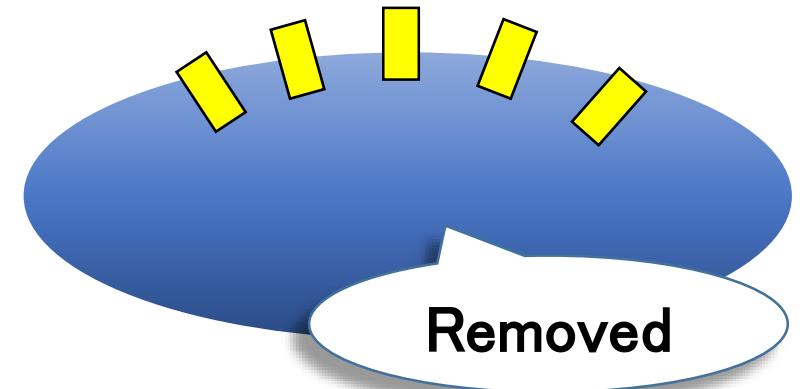
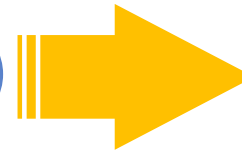
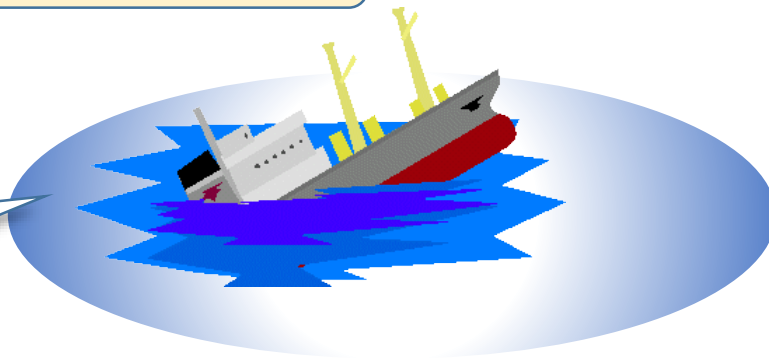


An satellite falling in
"IN THE NORTH PACIFIC OCEAN"

*We provide these case as non-visual information.

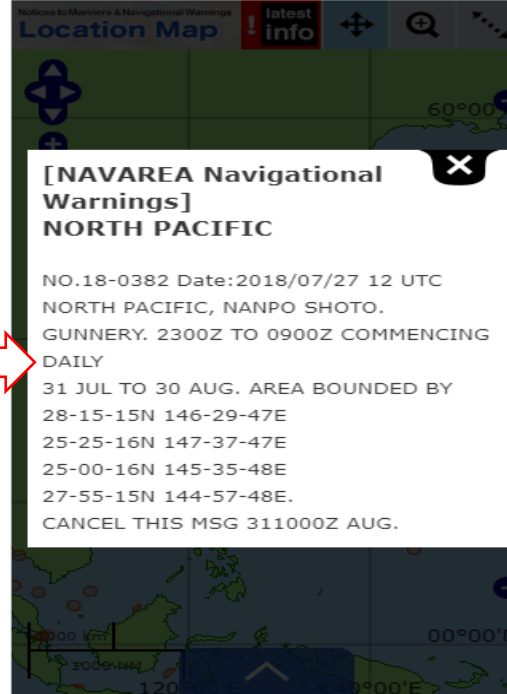
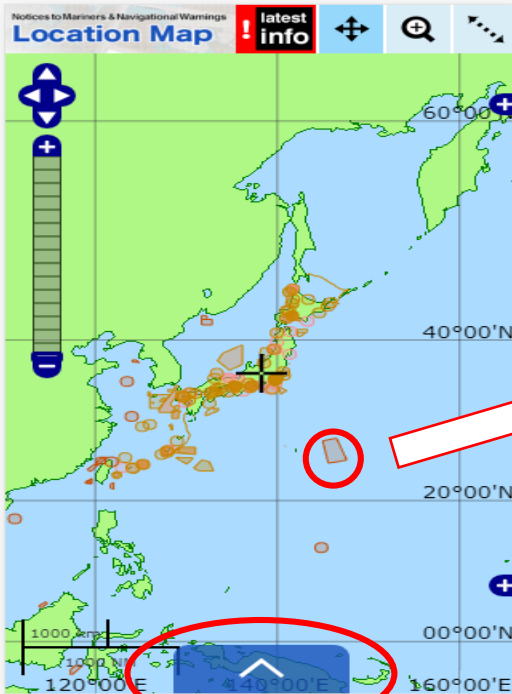
Cancelled information

Adrift



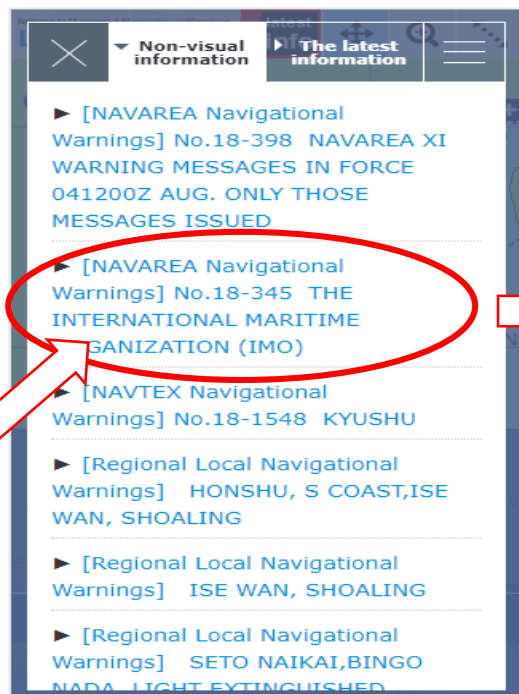
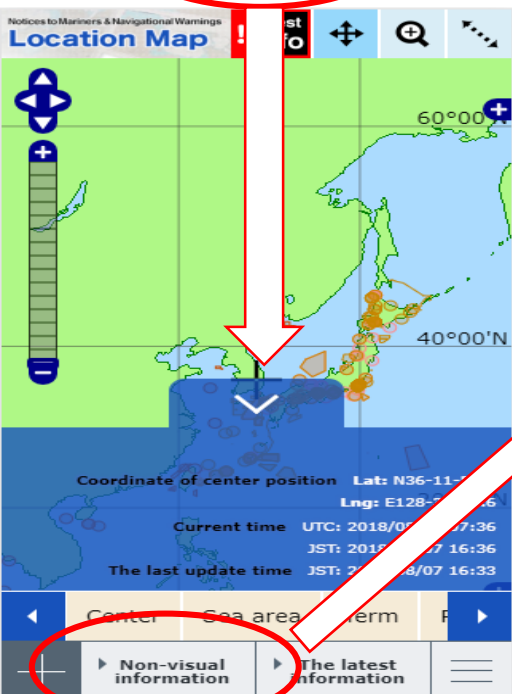
Summary of the visual NW&NtM system

- For users
 - Navigational Warnings and Notices to Mariners is displayed on map
 - You can access the information with web browser on Internet.
 - The information can be displayed with filter (broadcasting, category...)
 - -> mariners can check the NW or NtM easily.
- For officers
 - Inputting the location is added to already established work flow, and data is uploaded.
 - The location data is used for both Japanese and English navigational warnings
 - -> officers can edit information both for ship and for “visual” web page without overload.



It will be available on the Smartphone.

“Visual” pages can be checked by smartphone, but these pages are designed for PC. So it was not easy to use by Smartphone.



We will start the pages for Smartphone **next month!!**

- Fit the display to the Smartphone's screen.
- Tap operation.
- Pop-up messages suitable for Smartphone.

END