

NEAR-GOOS RRTDB data acquisition tutorial

1. Web data acquisition

Note:

Only the latest data are provided on the website. For historical data, see try 2.
Command line data acquisition below.

1-1 Grid Point Value (GPV) data

1. Access the NEAR-GOOS RRTDB website at <https://www.data.jma.go.jp/goos/data/database.html>.
2. Select *JMA Product*.



The screenshot shows the NEAR-GOOS Regional Real Time Data Base website. The header features the NEAR-GOOS logo on the left and logos for UNESCO and IOC Sub-Commission for the Western Pacific (WESTPAC) on the right. A navigation menu is located below the header, with the 'JMA Products' link highlighted by a red rectangular box. The main content area is divided into two columns. The left column is titled 'What's New' and contains a list of updates with dates: 2021/12/01, 2021/05/19, and 2019/03/29. The right column contains a sidebar with links for 'Introduction', 'About Usage of the Data', and a section titled 'NEAR-GOOS Data Bases' which lists various data bases such as 'Regional Delayed Mode Data Base', 'China Real Time Data Base', etc.

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What's New

2021/12/01 Release new subsurface temperatures and currents GPV of a new system (NPR-4DVAR) on and after January 2020. The update of the conventional version of GPVs (MOVE/MRI.COM) will be stopped in March 2022.
Release new GPVs of Monthly Sea Surface Temperature (COBE-SST2).
The conventional COBE-SST data will be deleted in Summer 2022 and users are encouraged to use new one.

2021/05/19 Terminate the products of Subsurface Temperatures (Objective Analysis)
Update climate normals of HIMSSST and COBE-SST

2019/03/29 Replace some products in the RRTDB by the new reanalysis data (MOVE/MRI.COM)

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Regional Delayed Mode Data Base
China Real Time Data Base
China Delayed Mode Data Base
Republic of Korea Real Time Data Base
Republic of Korea Delayed Mode Data Base

1-1 Grid Point Value (GPV) data

3. Click on the desired the product.

The screenshot shows the NEAR-GOOS website interface. At the top right, it identifies the Japan Meteorological Agency (JMA) and lists affiliations with UNESCO (United Nations Educational, Scientific and Cultural Organization) and the IOC Sub-Commission for the Western Pacific (WESTPAC). A navigation menu includes Home, Documents, JMA Products, In-situ Data, and Cross-Section. The main content area is titled 'JMA Products' and provides information about the latest GPVs of JMA products, including a link to historical data. Below this, the 'Analyzed Oceanic Conditions' section lists several data products, with 'Daily Sea Surface Temperatures in the Global Ocean' highlighted by a red box. To the right, there are links for 'Introduction', 'About Usage of the Data', and 'NEAR-GOOS Data Bases', which includes a list of regional data bases such as 'Regional Delayed Mode Data Base', 'China Real Time Data Base', 'China Delayed Mode Data Base', 'Republic of Korea Real Time Data Base', 'Republic of Korea Delayed Mode Data Base', 'Russian Federation Real Time Data Base', and 'Russian Federation Delayed Mode Data Base'. At the bottom right, there is a link for 'NOWPAP Data Base'.

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JMA Products

The latest GPVs of JMA products such as SSTs, subsurface temperatures and currents with its sample images can be found here. For historical data, refer to the NEAR-GOOS RRTDB at <https://www.data.jma.go.jp/goos/data/pub/JMA-product>.

Analyzed Oceanic Conditions

- Sea Surface Temperatures (MGDSST)
 [Daily Sea Surface Temperatures in the Global Ocean](#)
- Sea Surface Temperatures (HIMSST)
 [Daily Sea Surface Temperatures in the Western North Pacific](#)
-  [10-day Mean Sea Surface Temperatures in the Western North Pacific](#)
- Sea Surface Temperatures (COBE-SST2)
 [Monthly Mean Sea Surface Temperatures in the Global Ocean](#)

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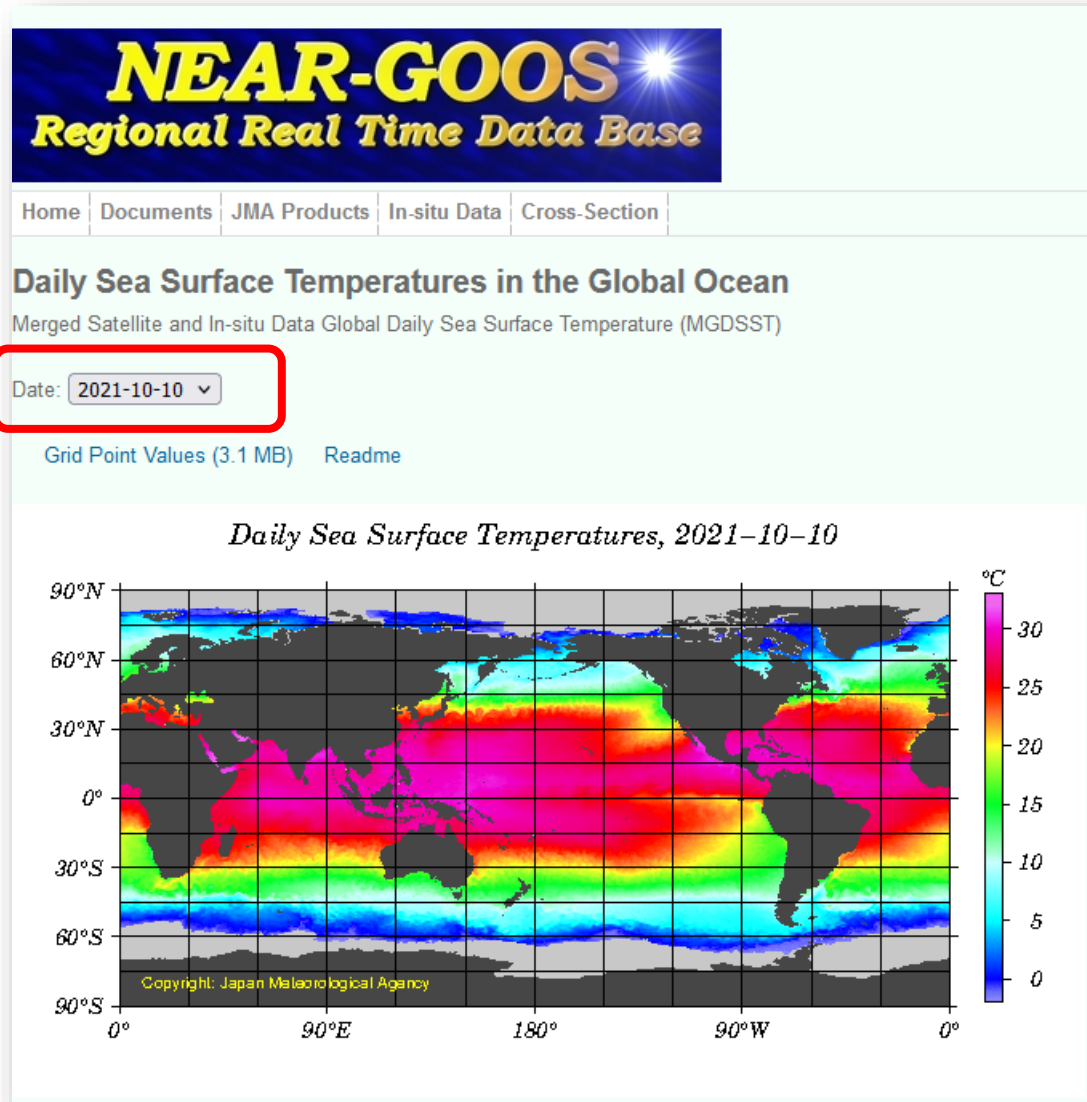
NEAR-GOOS Data Bases

- [Regional Delayed Mode Data Base](#)
- [China Real Time Data Base](#)
- [China Delayed Mode Data Base](#)
- [Republic of Korea Real Time Data Base](#)
- [Republic of Korea Delayed Mode Data Base](#)
- [Russian Federation Real Time Data Base](#)
- [Russian Federation Delayed Mode Data Base](#)

NOWPAP Data Base

1-1 Grid Point Value (GPV) data

4. Select the dates for the target data.



1-2 Imagery data

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2. Select *JMA Product*.



The screenshot shows the NEAR-GOOS website interface. At the top left is the logo for NEAR-GOOS Regional Real Time Data Base. At the top right are logos for the Japan Meteorological Agency (JMA), UNESCO, and the IOC Sub-Commission for the Western Pacific (WESTPAC). Below the logos is a navigation menu with the following items: Home, Documents, JMA Products (highlighted with a red box), In-situ Data, and Cross-Section. The main content area is divided into two columns. The left column is titled 'What's New' and contains three entries: 2021/12/01, 2021/05/19, and 2019/03/29. The right column contains links for 'Introduction', 'About Usage of the Data', and a section titled 'NEAR-GOOS Data Bases' which lists several data bases: Regional Delayed Mode Data Base, China Real Time Data Base, China Delayed Mode Data Base, Republic of Korea Real Time Data Base, and Republic of Korea Delayed Mode Data Base.

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1-2 Imagery data

3. Click on the desired product.



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

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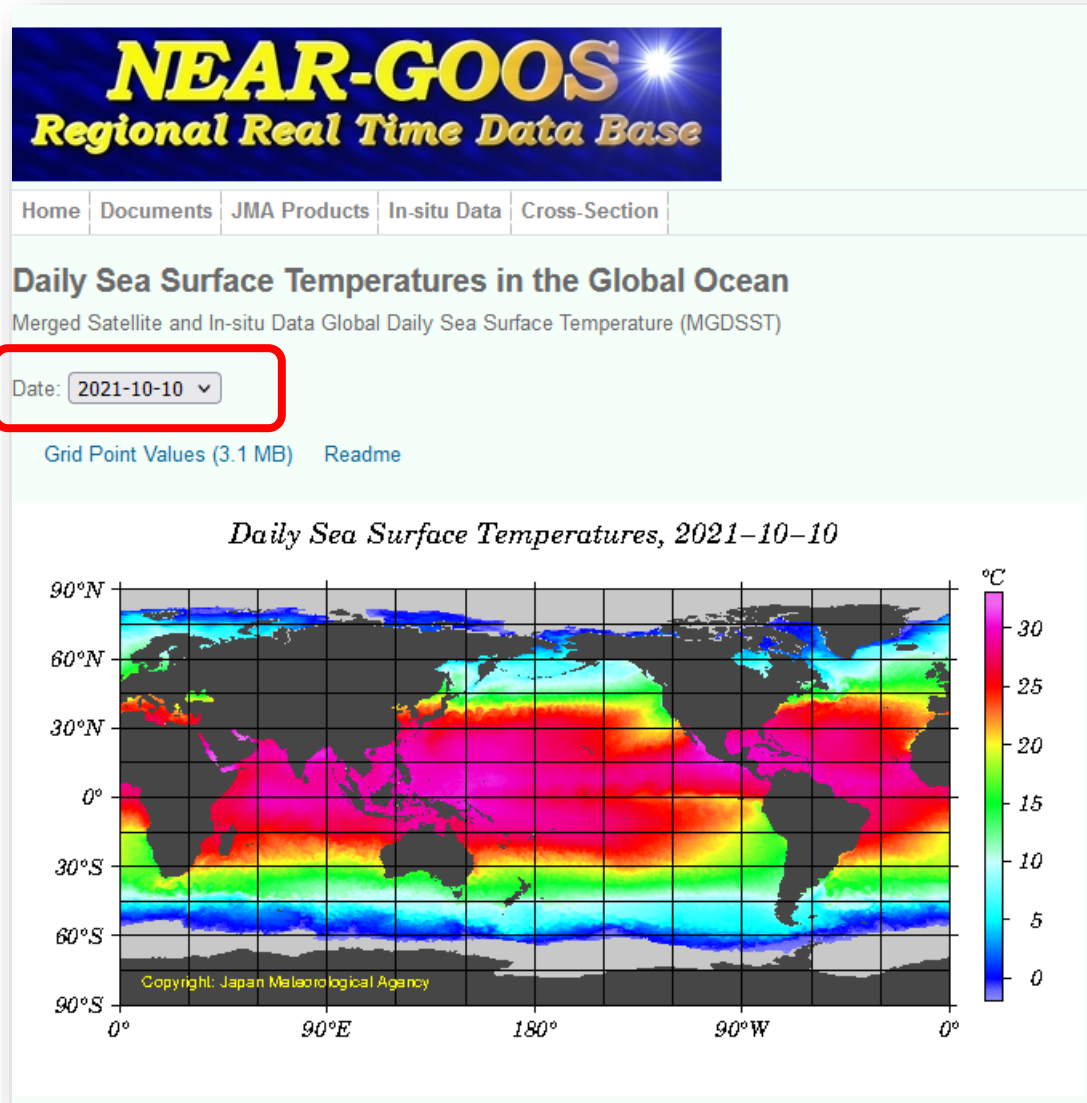
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- Republic of Korea Delayed Mode Data Base
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- Russian Federation Delayed Mode Data Base

NOWPAP Data Base

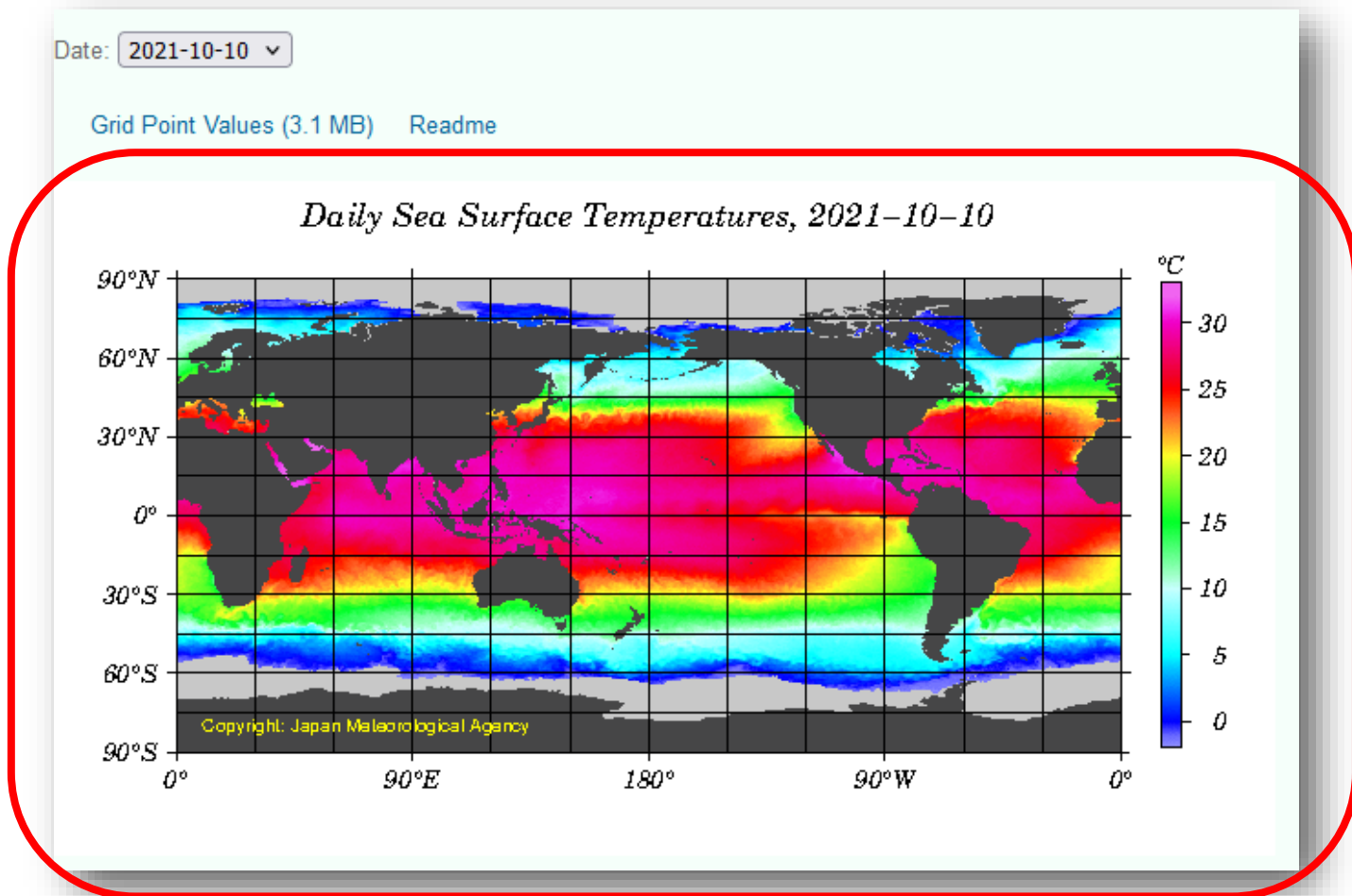
1-2 Imagery data

4. Select the dates for the target data.



1-2 Imagery data

5. Right-click to save the image file that appears on the screen.



1-3 In-situ data

1. Access the NEAR-GOOS RRTDB website at <https://www.data.jma.go.jp/goos/data/database.html>.
2. Select *In-situ data*.

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Regional Real Time Data Base

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1-3 In-situ data

3. Click on the desired product.



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In-situ Data

GTS Reports

- FM13 SHIP Reports of Surface Observation from a Sea Station
 - [NEAR-GOOS Region/Global](#)
- FM18 BUOY Reports of a Buoy Observation
 - [NEAR-GOOS Region/Global](#)
- FM62 TRACKOB Reports of Marine Surface Observation Along a Ship's Track
 - [NEAR-GOOS Region/Global](#)
- FM63 BATHY Reports of Bathothermal Observation
 - [NEAR-GOOS Region/Global](#)
- FM64 TESAC Temperature, Salinity and Current Reports from a Sea Station
 - [NEAR-GOOS Region/Global](#)

1-3 In-situ data

4. Right-click on the file name and save the file, or click and copy the data that appears on the screen.



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Regional Real Time Data Base

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FM13 SHIP
NEAR-GOOS Region
Manual on Codes

1. NEAR-GOOS Region/ship.obsDay09.rcvOct11 -- 15179 byte
2. NEAR-GOOS Region/ship.obsDay10.rcvOct11 -- 15179 byte
3. NEAR-GOOS Region/ship.obsDay08.rcvOct10 -- 1214 byte
4. NEAR-GOOS Region/ship.obsDay09.rcvOct10 -- 15557 byte
5. NEAR-GOOS Region/ship.obsDay07.rcvOct09 -- 380 byte
6. NEAR-GOOS Region/ship.obsXXXX.rcvOct09 -- 80 byte
7. NEAR-GOOS Region/ship.obsDay08.rcvOct09 -- 14012 byte
8. NEAR-GOOS Region/ship.obsDay07.rcvOct08 -- 14278 byte
9. NEAR-GOOS Region/ship.obsDay06.rcvOct08 -- 182 byte
10. NEAR-GOOS Region/ship.obsDay05.rcvOct07 -- 695 byte

Preview window data:

```
JGQH 10094 99333 11453
41/98 31122 10248 20185 40240 52005 70211 83200
22263 00258 1//// 20504 399// 4//04=
JGQH 10104 99334 11451
46/// /1221 10247 20172 40235 54000 8////
22263 00254 1////=
JGQH 10114 99335 11448
/// /1219 10247 20191 40236 55004 8////
2263 00251 1////=
```

2. Command line data acquisition

2. Command line data acquisition

1. See the directory structure at

<https://www.data.jma.go.jp/goos/data/pub>.

2. Make a record of the file or directory URL.

3. Use 'wget' in the command line for data acquisition. Examples are shown on the following pages.

- Example of file download

Specify the file path after the 'wget' command.

```
$ wget
```

```
https://www.data.jma.go.jp/goos/data/pub/JMA-product/mgd\_sst\_glb\_D/2021/mgd\_sst\_glb\_D20211001.txt.gz
```

The specified file will be downloaded.

- Example of directory download (1)

Specify the directory path after the 'wget' command with the '-r' option (recursive download), the '-np' option (disallow ascent to the parent directory) and the '-nc' option (omit downloads to existing files).

```
$ wget -r -np -nc
```

```
https://www.data.jma.go.jp/goos/data/pub/JMA-product/mgd\_sst\_glb\_D/2021/
```

The specified directory will be downloaded recursively other than for existing files.

- Example of directory download (2)

Indicate the directory path after the 'wget' command with the '-nH' option (don't create host directories), the '-e' option (execute a '.wgetrc'-style command for HTTPS [HTTP] proxy), the '-P PREFIX' option (save files to PREFIX/..) and the '--cut-dirs=NUMBERS' option (ignore NUMBER remote directory components) in addition to the '-r' option, the '-np' option and the '-nc' option.

```
$ wget -r -np -nc -nH -e HTTPS_PROXY=XX.XX.XX.XX:XXXX -P  
~/wget/ --cut-dirs=6  
https://www.data.jma.go.jp/goos/data/pub/JMA-  
product/mgd\_sst\_glb\_D/2021/
```

The specified directory will be downloaded recursively to the PREFIX directory without saving of the remote host structure via an HTTPS [HTTP] proxy other than for existing files.