

Launching of Overarching Radiation-monitoring data Browsing System (ORBS)

- In accordance with the government's Comprehensive Monitoring Plan, Fukushima Prefecture, the Nuclear Regulation Authority, the Ministry of the Environment and TEPCO have strengthened sea area monitoring since April 2022 by increasing the number of measurement locations and the frequency of measurements.
- In September 2022, TEPCO created content on its treated water portal site that allows monitoring data from TEPCO, such as the locations from which samples were taken and trends based on monitoring results to date, etc., to be viewed at a glance. However, some stakeholders commented that they would like to see all of the monitoring data from different agencies compiled into one place, and that they would like to see the chronological changes in this data.
- The Overarching Radiation-monitoring data Browsing System around Japan is a website that gathers sea area monitoring measurements taken from various locations that have been disclosed by TEPCO as well as related ministries/agencies and local governments, etc., and displays them on a map format for easy viewing thereby providing objective and comprehensive data on sea conditions. This website has been launched.

Website name: Overarching Radiation-monitoring data Browsing System in the coastal ocean of Japan (ORBS)

- At its launch, monitoring data on the concentrations of cesium and tritium in seawater sampled by Fukushima Prefecture, the Nuclear Regulation Authority, the Ministry of the Environment, and TEPCO will be available for viewing, and thereafter more data will be added so that visitors to the website can access information on other nuclides in the sea, as well as the monitoring results from fish and seaweed.

Sample data: Seawater, fish, seaweed, seabed soil

Nuclide data: Cesium, Tritium, Strontium, Plutonium, Iodine

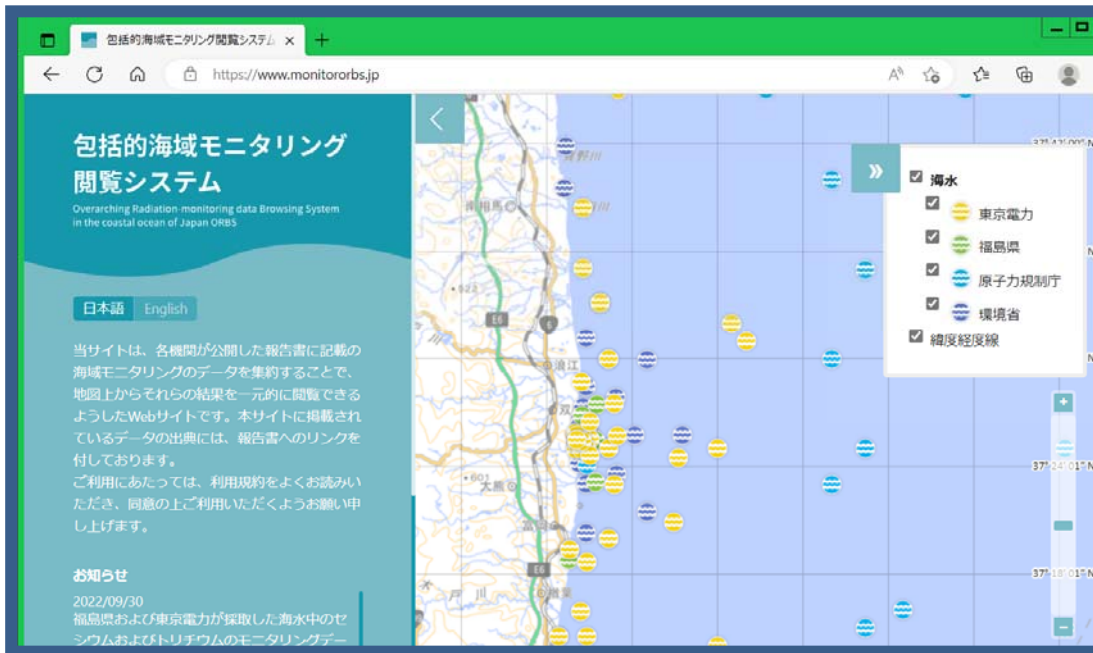
Data period: April 2021~present, Data prior to this period will also be added in the days to come

Launching of Overarching Radiation-monitoring data Browsing System (ORBS) Overview ①

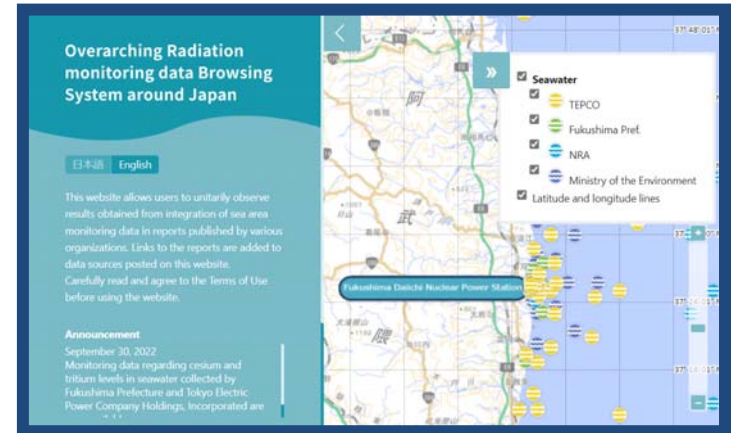


- Launching a website that gathers sea area monitoring measurements taken by Fukushima Prefecture, the Nuclear Regulation Authority, the Ministry of the Environment, and TEPCO and displays them on a map format for easy viewing.
- A smartphone version and an English version have also been launched.

Japanese version top page



English version top page



https://www.monitororbs.jp/index_en.html



Smart phone version top page



【 Data Window 】

- Data windows will appear when the mouse is brought over a measurement point ●
 Shown data: sampling location, radioactive substance concentrations, sampling agency name, etc.

Sampling location: Around 3km offshore of 1F site (T-S4)
 Sampling position: 37°25'43"N/141°04'57"E
 Sample: Seawater

	Unit: Bq/L		
	Cs-134	Cs-137	H-3
Date of sampling	2022/12/21	2022/12/21	2022/11/16
Sea surface to a depth of 0.5 m	ND(0.0014)	0.0014	ND(0.071)
2 to 3 m above seabed	ND(0.0014)	0.0019	-

Sampling institution: TEPCO
 Reference: 福島第一原子力発電所周辺の放射性物質の分析結果
 Measuring methods, detection limits (ND), etc. depend on a purpose of measurement, so check the reports to the data source.



Click the ●

【 Chronological Graph 】

- The graph will appear when the measurement location ● is clicked
 Shown data: A graph showing the changes in radiation concentrations since April 2021.
- The CSV data for the chronological graph can be downloaded.
- The graph can also be changed to linear scale format and logarithmic scale format.

Sampling location: Around 3km offshore of 1F site (T-S4)
 Sampling position: 37°25'43"N/141°04'57"E
 Sample: Seawater

	Unit: Bq/L		
	Cs-134	Cs-137	H-3
Date of sampling	2022/12/21	2022/12/21	2022/11/16
Sea surface to a depth of 0.5 m	ND(0.0014)	0.0014	ND(0.071)
2 to 3 m above seabed	ND(0.0014)	0.0019	-

Period: The last 1 year | Scale: Log Linear | [Downloading CSV](#)

Radionuclide: All | Depth: All

Graph Title: Around 3km offshore of 1F site (T-S4) | Maximum: 0.14 [Bq/L]

Y-axis: Bq/L (0.0001 to 1000)
 X-axis: 2022/05, 2022/07, 2022/09, 2022/11, 2023/01, 2023/03

Legend:
 ● Cs-134 (Sea surface to a depth of 0.5 m, Seawater)
 ▲ Cs-134 (2 to 3 m above seabed, Seawater)
 ● Cs-137 (Sea surface to a depth of 0.5 m, Seawater)
 ▲ Cs-137 (2 to 3 m above seabed, Seawater)
 ● H-3 (Sea surface to a depth of 0.5 m, Seawater)

Sampling institution: TEPCO
 Reference: 福島第一原子力発電所周辺の放射性物質の分析結果
 Measuring methods, detection limits (ND), etc. depend on a purpose of measurement, so check the reports to the data source.

CSV data can be downloaded

The graph scale can be changed to linear scale format and logarithmic scale format.