March 19, 2024

Results of ALPS Treated Water Marine Monitoring: Seawater Survey (tritium) (January 2024)

1 Outline of survey

(1) Date of sampling

January 18, 2024

(2) Sampling points

3 sampling points on coastal waters in the Fukushima Prefecture.

* Water samples are collected from surface and bottom layers at all sampling points.

(3) Detail of the survey

・The measurement of radioactive material concentrations in seawater. (tritium)

Analysis with target lower limit of detection of 0.1 Bq/L.

*A target lower limit of detection means a value that is set for quality control to assure at least the detection up to the value when analysis is conducted. Each actual lower limit of detection differs according to samples, and is equal to or lower than a target lower limit of detection.

2 Outline of results

(1) Seawater survey (3 sampling points (6 samples))

Concentrations of tritium in seawater range from 0.048 Bq/L to 0.13 Bq/L.

(Detailed are attached)

(Maps attached)

Attachment

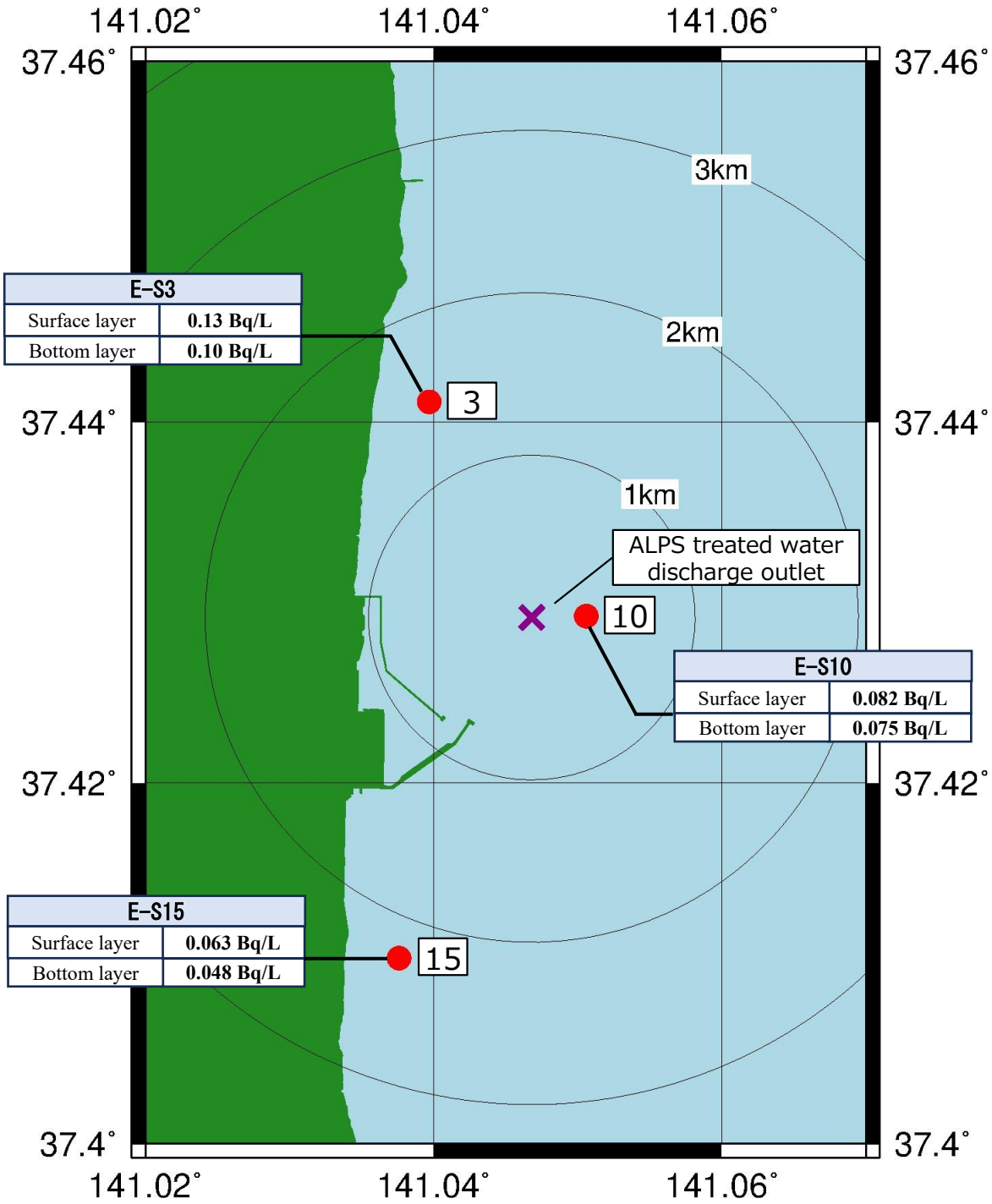
Analysis result for tritium in seawater

Sampling point	Sampling date	Sampling layer	Sampling depth (m)	Nuclide	Radioactivity concentration[*1*2]			Unit
E-S3	2024/01/18	Surface layer	1.5	H-3	0.13	±	0.014	Bq/L
E-S3	2024/01/18	Bottom layer	7.1	H-3	0.10	±	0.012	Bq/L
E-S10	2024/01/18	Surface layer	1.5	H-3	0.082	±	0.011	Bq/L
E-S10	2024/01/18	Bottom layer	13.1	H-3	0.075	±	0.012	Bq/L
E-S15	2024/01/18	Surface layer	1.5	H-3	0.063	±	0.012	Bq/L
E-S15	2024/01/18	Bottom layer	5.6	H-3	0.048	±	0.011	Bq/L

*1 Radioactivity concentrations are presented as radioactivity concentration ± combined standard uncertainty.

*2 Values below detection limit are shown by lower limit of detection (e.g.,“<10 Bq/L” indicates a value below 10 Bq/L).

Attachment



*Numbers in the map show sampling points this time, and “E-S” is omitted from labels in the map (e.g., E-S3 is marked as 3)

Fig. 1: Sampling points within 3 km of ALPS treated water discharge outlet