

# Sea Area Monitoring

April 27, 2020

Nuclear Regulation Authority (NRA), Japan

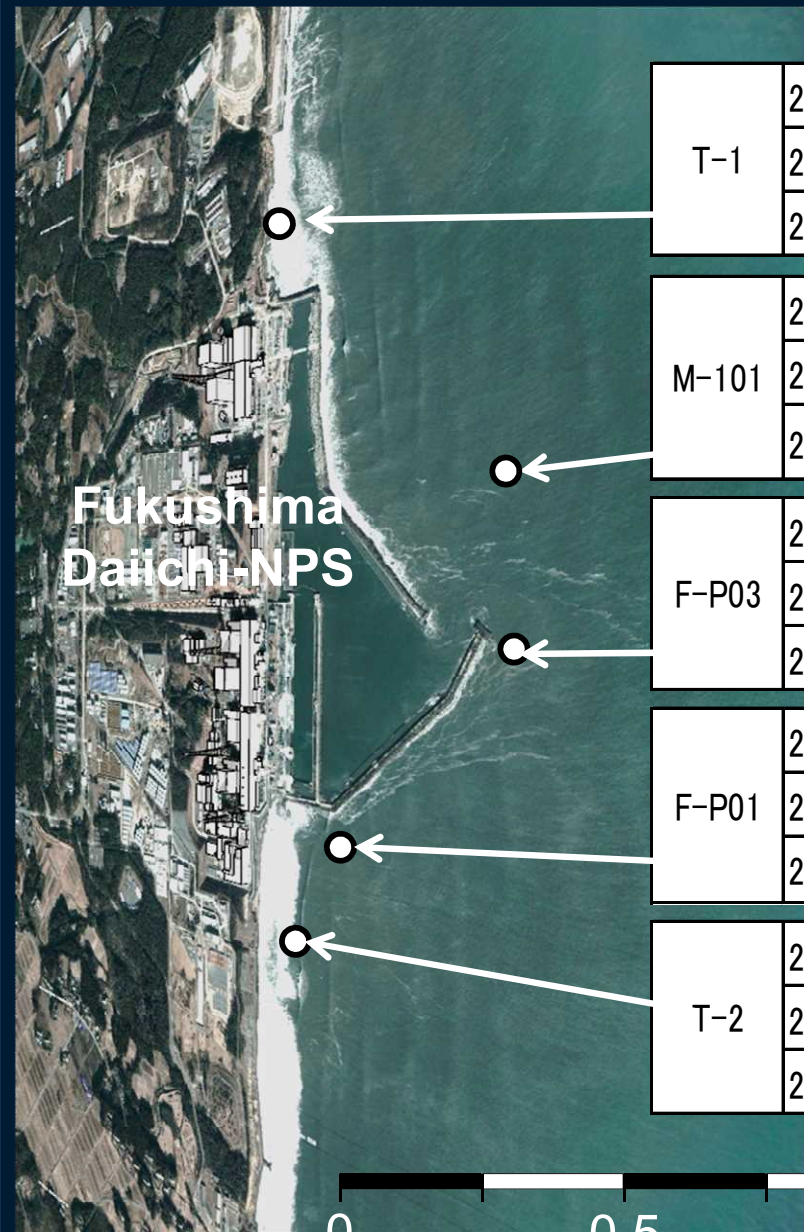
# The most recent radioactivity data of sea area within 2km from the NPS

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Gross $\beta$ | H-3 | Sr-90 | Gross $\alpha$ | Pu-238 | Pu-239+Pu-240 |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

\* 1 : Gross  $\beta$  : including K-40    \* 2 : Gross  $\beta$  : excluding K-40



|       |            |           |       |                    |          |         |         |                          |                          |
|-------|------------|-----------|-------|--------------------|----------|---------|---------|--------------------------|--------------------------|
| T-1   | 2020/1/6   | 0.016     | 0.25  | 13                 | ND(0.88) | 0.0029  | ND(1.9) |                          |                          |
|       | 2020/2/3   | 0.017     | 0.27  | 12                 | ND(0.83) | 0.0012  | ND(2.5) |                          |                          |
|       | 2020/3/2   | 0.0030    | 0.052 | 12                 | ND(0.88) | 0.0013  | ND(2.3) |                          |                          |
| M-101 | 2019/11/13 | 0.0029    | 0.044 |                    | 0.10     | 0.0014  |         |                          |                          |
|       | 2019/12/11 | 0.0023    | 0.036 |                    | 0.15     | 0.00070 |         |                          |                          |
|       | 2020/1/16  | 0.0048    | 0.079 |                    | 0.094    | 0.0012  |         |                          |                          |
| F-P03 | 2019/12/11 | 0.009     | 0.14  | 0.02 <sup>*2</sup> | 0.82     | 0.0045  |         | ND( $7 \times 10^{-6}$ ) | ND( $9 \times 10^{-6}$ ) |
|       | 2020/1/8   | 0.012     | 0.17  | 0.05 <sup>*2</sup> | 0.89     | 0.0051  |         | ND( $7 \times 10^{-6}$ ) | ND( $8 \times 10^{-6}$ ) |
|       | 2020/2/4   | 0.003     | 0.046 | 0.03 <sup>*2</sup> | ND(0.34) | 0.0010  |         | ND( $7 \times 10^{-6}$ ) | 0.000010                 |
| F-P01 | 2019/12/11 | ND(0.003) | 0.052 | 0.02 <sup>*2</sup> | ND(0.34) | 0.0008  |         | ND( $7 \times 10^{-6}$ ) | ND( $9 \times 10^{-6}$ ) |
|       | 2020/1/8   | ND(0.003) | 0.055 | 0.04 <sup>*2</sup> | ND(0.34) | 0.0006  |         | ND( $8 \times 10^{-6}$ ) | 0.000010                 |
|       | 2020/2/4   | 0.021     | 0.35  | 0.03 <sup>*2</sup> | ND(0.35) | 0.0013  |         | ND( $8 \times 10^{-6}$ ) | 0.000011                 |
| T-2   | 2020/1/6   | 0.0059    | 0.094 | 12                 | ND(0.88) | 0.0046  | ND(1.9) |                          |                          |
|       | 2020/2/3   | 0.046     | 0.76  | 11                 | 0.91     | 0.0029  | ND(2.1) |                          |                          |
|       | 2020/3/2   | 0.0098    | 0.17  | 14                 | ND(0.88) | 0.0088  | ND(1.9) |                          |                          |

0      0.5      1km

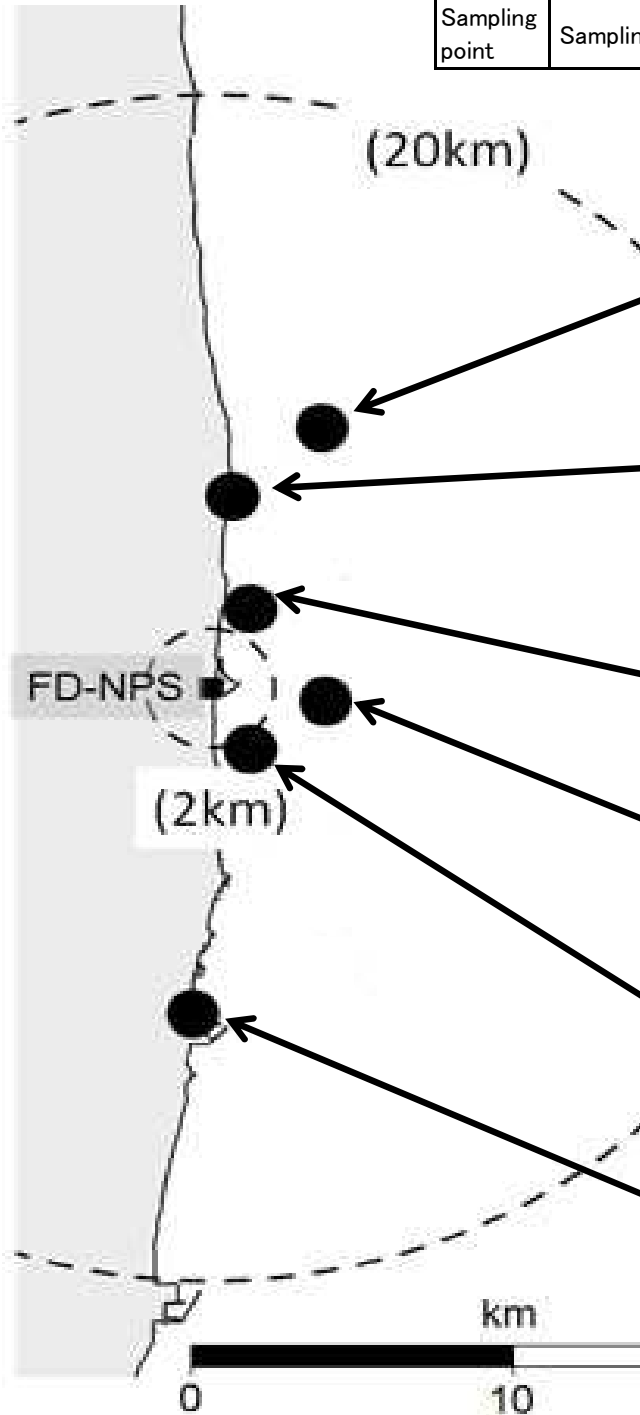
# Most recent radioactivity data of sea area between 2-20km from the NPS

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Gross $\beta$ | H-3 | Sr-90 | Gross $\alpha$ | Pu-238 | Pu-239+240 | S | S:2m below sea level |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|------------|---|----------------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|------------|---|----------------------|

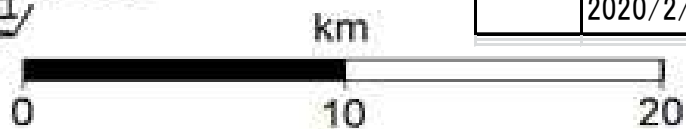
Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

Gross  $\beta$  : including K-40



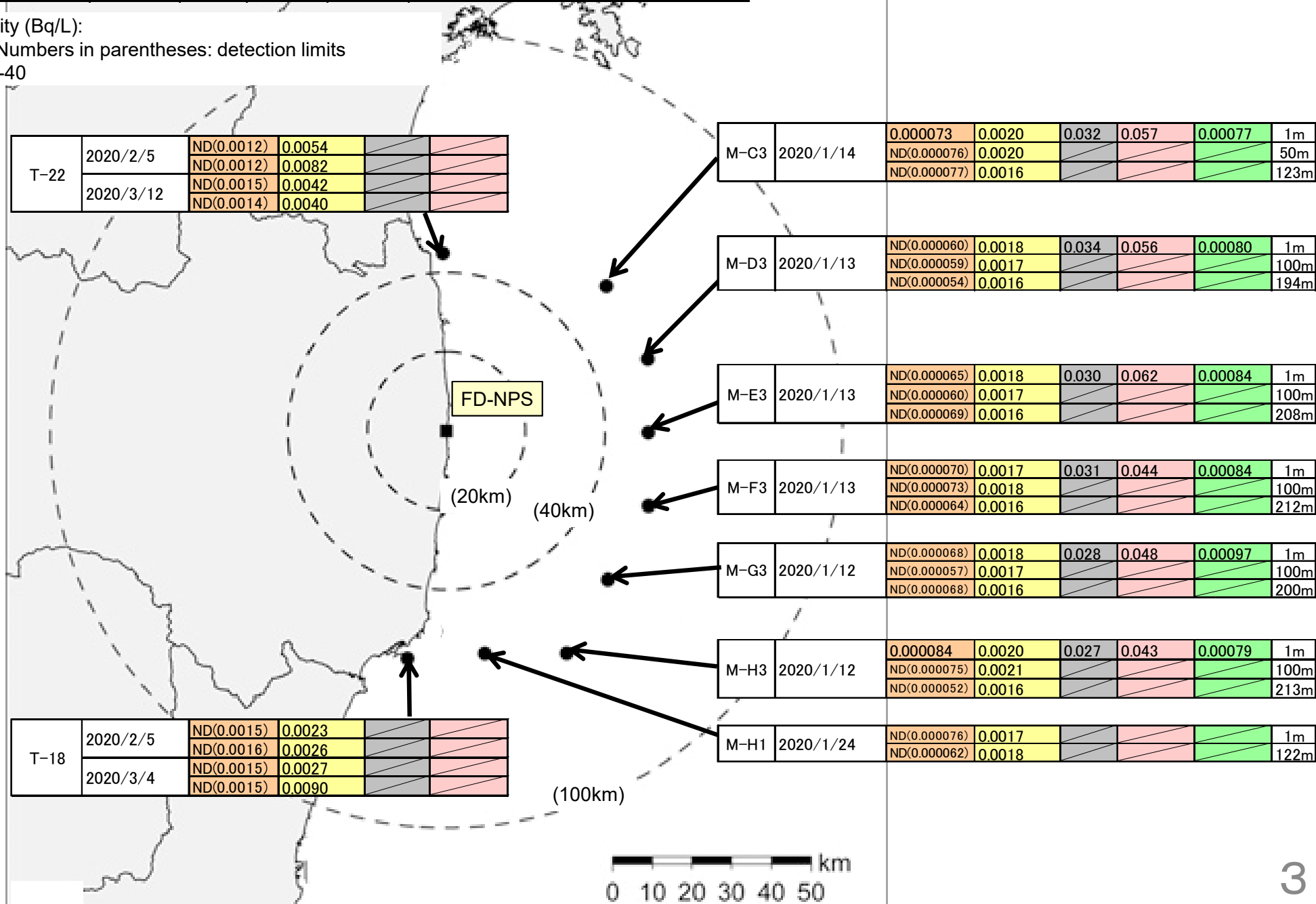
|       |            |            |        |        |          |         |         |  |  |      |
|-------|------------|------------|--------|--------|----------|---------|---------|--|--|------|
| T-D1  | 2019/12/3  | ND(0.0011) | 0.014  | ND(12) | ND(0.34) | 0.0016  | ND(2.0) |  |  | S    |
|       | 2020/1/6   | 0.0015     | 0.025  | ND(13) | 0.34     | 0.0016  | ND(2.0) |  |  | S    |
|       | 2020/2/3   | 0.0013     | 0.023  | ND(13) | ND(0.33) | 0.0011  | ND(2.0) |  |  | S    |
| T-6   | 2020/1/7   | 0.0037     | 0.076  | ND(14) | ND(0.31) |         |         |  |  | S    |
|       | 2020/2/4   | 0.0058     | 0.099  | ND(13) | 0.33     |         |         |  |  | S    |
|       | 2020/2/18  | 0.0033     | 0.060  | ND(13) | ND(0.34) |         |         |  |  | S    |
| M-103 | 2019/11/13 | 0.0021     | 0.035  |        | 0.20     | 0.0013  |         |  |  | 0.5m |
|       | 2019/12/11 | 0.0015     | 0.022  |        | 0.13     | 0.00089 |         |  |  | 0.5m |
|       | 2020/1/16  | 0.0014     | 0.026  |        | 0.085    | 0.00067 |         |  |  | 0.5m |
| T-D5  | 2019/12/3  | ND(0.0010) | 0.0056 | ND(14) | ND(0.35) | 0.0013  | ND(2.0) |  |  | S    |
|       | 2020/1/6   | ND(0.0011) | 0.013  | ND(13) | ND(0.34) | 0.0015  | ND(2.0) |  |  | S    |
|       | 2020/2/3   | ND(0.0012) | 0.012  | ND(13) | 0.39     | 0.0016  | ND(2.0) |  |  | S    |
| M-104 | 2019/11/14 | 0.0013     | 0.025  |        | 0.080    | 0.00077 |         |  |  | 0.5m |
|       | 2019/12/12 | 0.0011     | 0.020  |        | 0.11     | 0.0010  |         |  |  | 0.5m |
|       | 2020/1/17  | 0.0012     | 0.023  |        | 0.12     | 0.00083 |         |  |  | 0.5m |
| T-3   | 2020/1/7   | 0.0025     | 0.039  | ND(12) | ND(0.30) |         |         |  |  | S    |
|       | 2020/2/4   | 0.0056     | 0.076  | ND(13) | ND(0.31) |         |         |  |  | S    |
|       | 2020/2/18  | 0.0049     | 0.074  | ND(13) | ND(0.36) |         |         |  |  | S    |



# Most recent radioactivity data of sea area between 40-100km from the NPS

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Gross $\beta$ | H-3 | Sr-90 | S/B  |
|----------------|---------------|--------|--------|---------------|-----|-------|--|
|                |               |        |        |               |     |       | S:2m below sea level B:2-3m above sea bottom |
|                |               |        |        |               |     |       | Depth(m) from sea level                      |

Sea water radioactivity (Bq/L):  
 ND: Not detected; Numbers in parentheses: detection limits  
 Gross  $\beta$ : excluding K-40



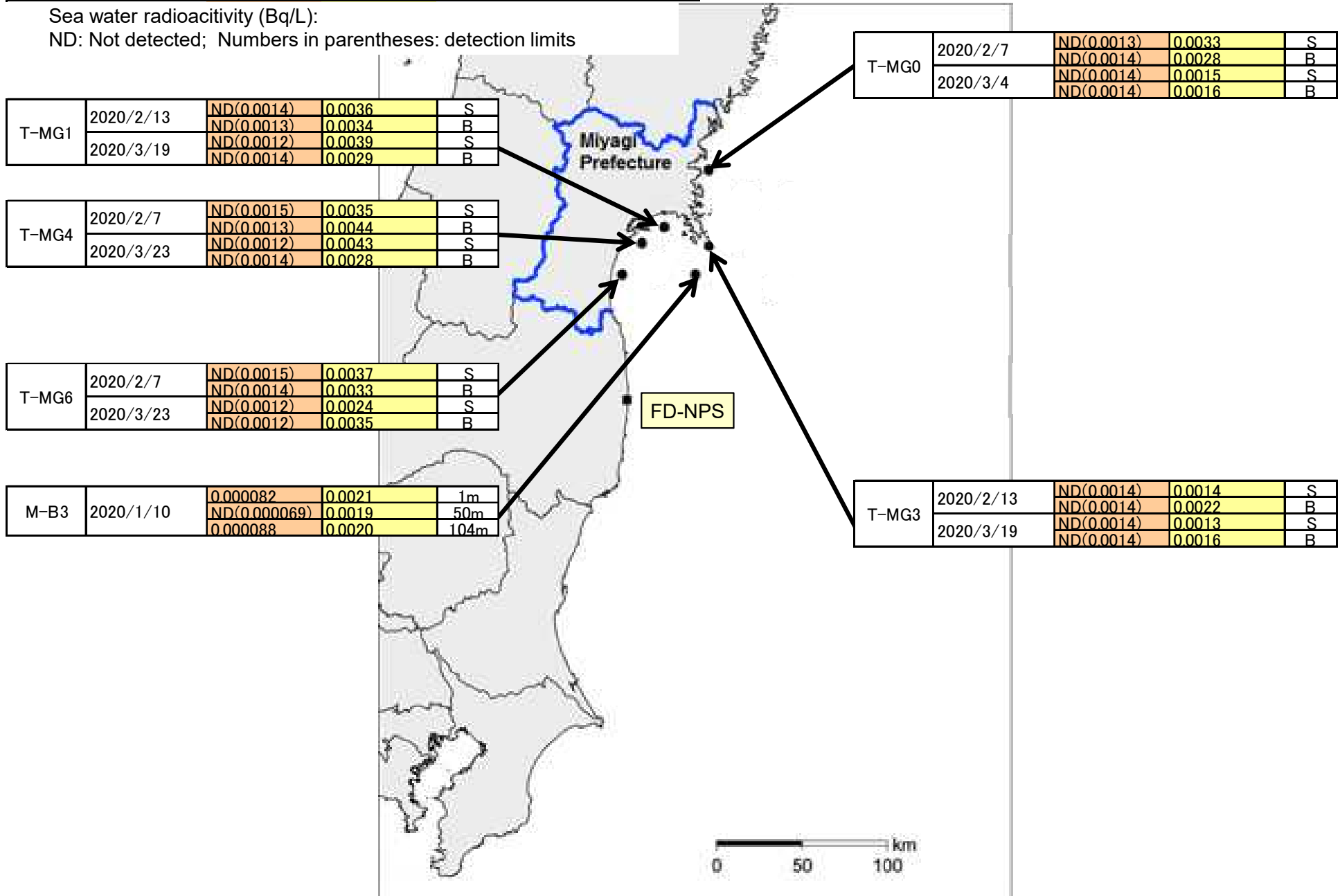
# Most recent radioactivity data of sea area along and off the coast of Miyagi Prefecture

S:2m below sea level B:2-3m above sea bottom

| Sampling point | Sampling Date | Cs-134 | Cs-137 | S/B |
|----------------|---------------|--------|--------|-----|
|----------------|---------------|--------|--------|-----|

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits



# Most recent radioactivity data of sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

S:2m below sea level B:2-3m above sea bottom

Ibaraki Pref. and Chiba Pref.

