

Sea Area Monitoring

March 26, 2018

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 β | H-3 | Sr-90 | Gross α | Pu-238 | Pu-239+Pu-240 |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

*1: Gross β including K-40 *2: Gross β excluding K-40

| | | | | | | | | | |
|-------|------------|-----------|-------|--------------------|----------|--------|---------|--------------------------|--------------------------|
| T-1 | 2018/1/1 | 0.014 | 0.13 | 11 ^{*1} | ND(1.7) | 0.0035 | ND(2.0) | | |
| | 2018/1/8 | 0.0056 | 0.048 | 8.3 ^{*1} | ND(1.6) | | | | |
| | 2018/1/15 | 0.012 | 0.096 | 14 ^{*1} | ND(1.6) | | | | |
| | 2018/1/22 | 0.0052 | 0.043 | 8.6 ^{*1} | ND(1.7) | | | | |
| M-101 | 2017/11/2 | 0.0023 | 0.022 | | 0.11 | 0.0024 | | | |
| | 2017/12/7 | | | | 0.17 | | | | |
| | 2018/1/11 | 0.0012 | 0.015 | | | | | | |
| F-P03 | 2017/10/17 | ND(0.003) | 0.012 | 0.02 ^{*2} | ND(0.33) | 0.0011 | | ND(8×10^{-6}) | ND(6×10^{-6}) |
| | 2017/11/14 | 0.003 | 0.022 | 0.02 ^{*2} | ND(0.34) | 0.0020 | | ND(6×10^{-6}) | ND(6×10^{-6}) |
| | 2017/12/5 | 0.018 | 0.14 | 0.03 ^{*2} | 0.43 | 0.010 | | ND(8×10^{-6}) | ND(8×10^{-6}) |
| F-P01 | 2017/10/17 | 0.004 | 0.030 | 0.02 ^{*2} | ND(0.33) | 0.0016 | | ND(6×10^{-6}) | ND(6×10^{-6}) |
| | 2017/11/14 | 0.003 | 0.019 | 0.02 ^{*2} | ND(0.33) | 0.0025 | | ND(5×10^{-6}) | ND(5×10^{-6}) |
| | 2017/12/5 | 0.003 | 0.025 | 0.02 ^{*2} | ND(0.34) | 0.0021 | | ND(6×10^{-6}) | ND(6×10^{-6}) |
| T-2 | 2018/1/1 | 0.0082 | 0.071 | 11 ^{*1} | ND(1.6) | 0.0017 | ND(1.9) | | |
| | 2018/1/8 | 0.0047 | 0.042 | 12 ^{*1} | ND(1.6) | | | | |
| | 2018/1/15 | 0.0037 | 0.033 | 11 ^{*1} | ND(1.5) | | | | |
| | 2018/1/22 | 0.0038 | 0.034 | 10 ^{*1} | ND(1.5) | | | | |

Fukushima
Daiichi-NPS

0 0.5 1km

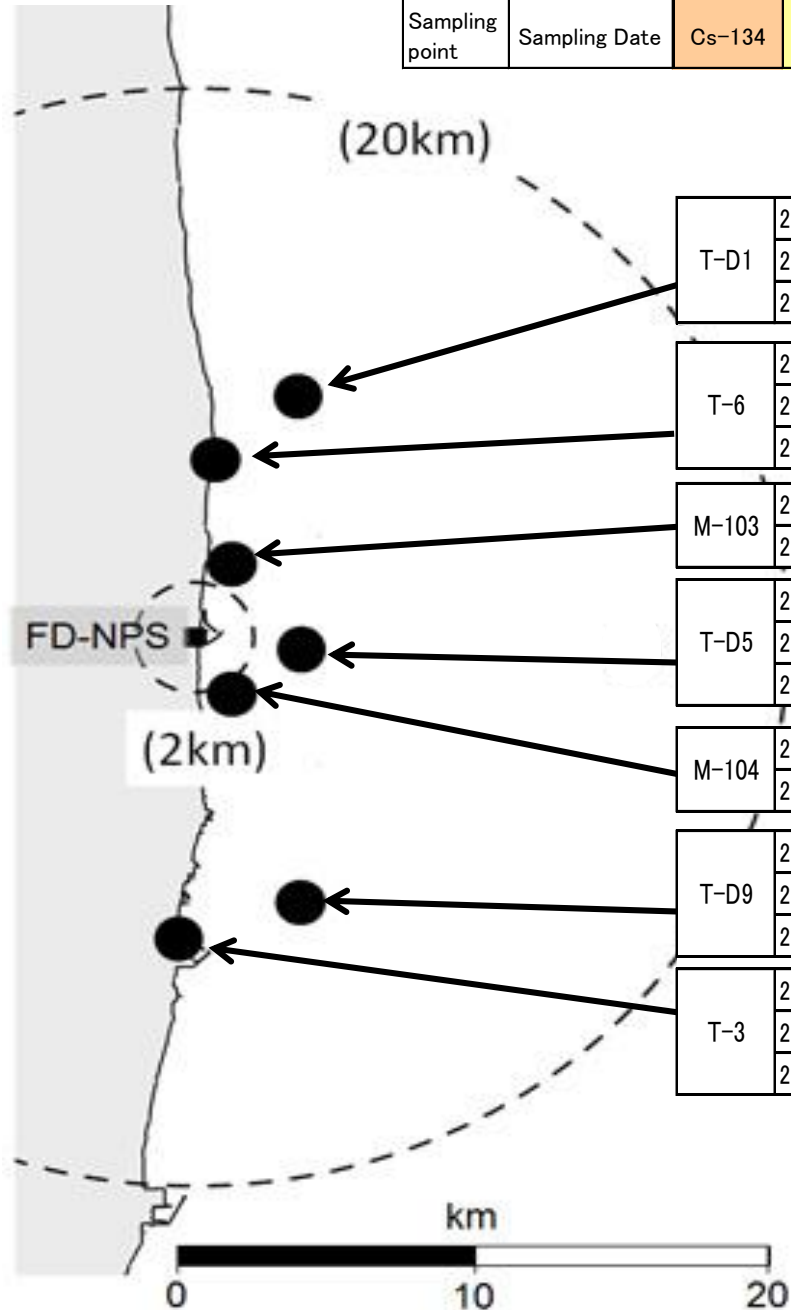
Most recent radioactivity data of sea area between 2-20km from the NPS (1)

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Gross β * | H-3 | Sr-90 | Gross α | 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 β * : including K-40

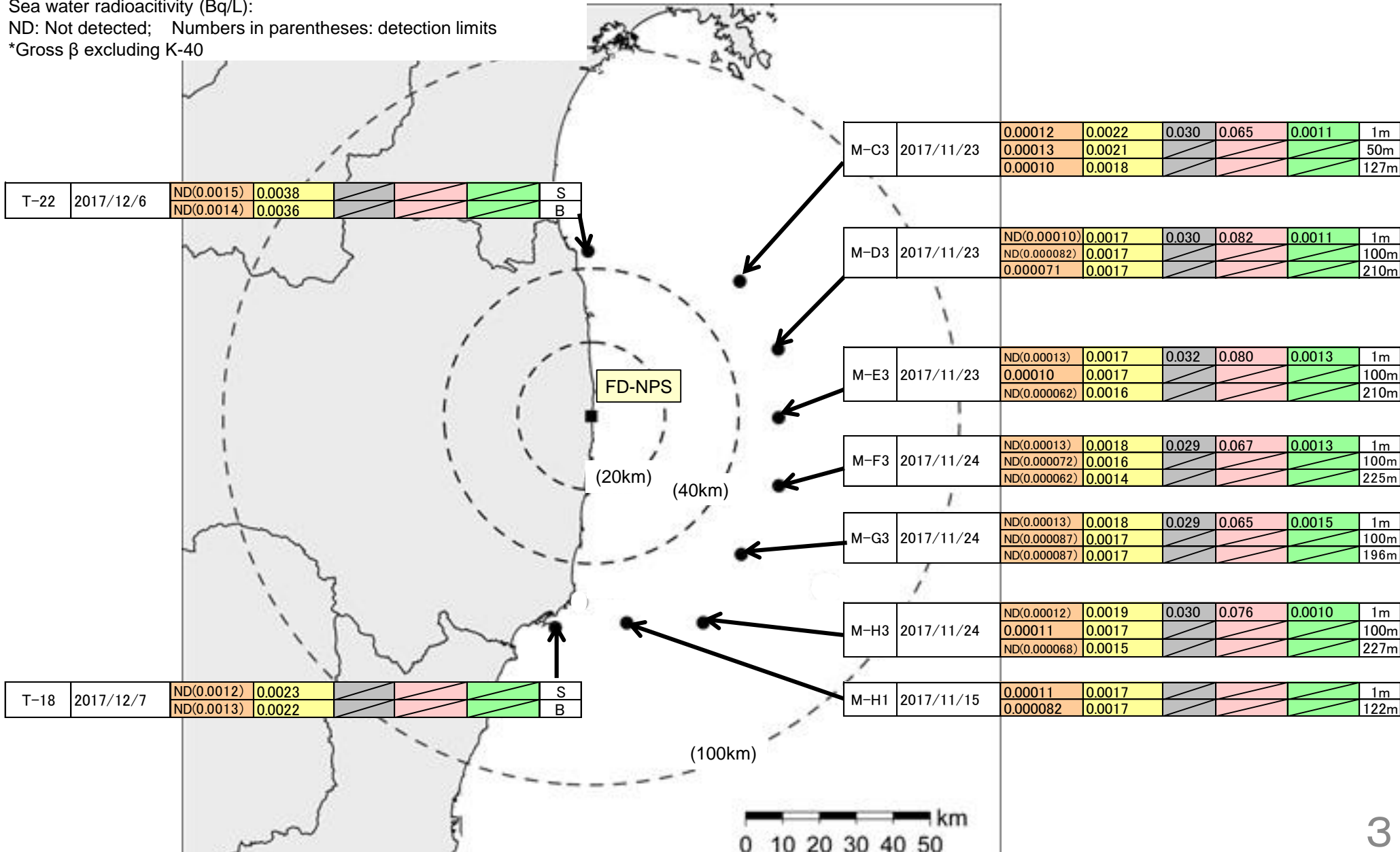


| | | | | | | | | | | |
|-------|------------|-------------|--------|--------|----------|---------|---------|---|---|------|
| T-D1 | 2017/12/18 | ND(0.0012) | 0.0055 | ND(18) | ND(0.36) | / | / | / | / | S |
| | 2018/1/5 | ND(0.0014) | 0.010 | ND(18) | ND(0.36) | 0.0017 | ND(2.0) | / | / | S |
| | 2018/1/15 | ND(0.0012) | 0.0057 | ND(14) | ND(0.31) | / | / | / | / | S |
| T-6 | 2017/12/19 | 0.0033 | 0.025 | ND(16) | ND(0.31) | / | / | / | / | S |
| | 2018/1/4 | 0.0024 | 0.027 | ND(16) | ND(0.31) | / | / | / | / | S |
| | 2018/1/16 | 0.0028 | 0.023 | ND(13) | ND(0.32) | / | / | / | / | S |
| M-103 | 2017/10/5 | ND(0.00074) | 0.0071 | / | / | 0.00091 | / | / | / | 0.5m |
| | 2017/11/2 | 0.0035 | 0.028 | / | 0.10 | 0.0014 | / | / | / | 0.5m |
| T-D5 | 2017/12/18 | ND(0.0012) | 0.0057 | ND(18) | ND(0.36) | / | / | / | / | S |
| | 2018/1/5 | ND(0.0013) | 0.0065 | ND(18) | ND(0.36) | 0.0015 | ND(2.0) | / | / | S |
| | 2018/1/15 | ND(0.0014) | 0.0061 | ND(14) | ND(0.31) | / | / | / | / | S |
| M-104 | 2017/10/4 | 0.00083 | 0.0084 | / | / | 0.00093 | / | / | / | 0.5m |
| | 2017/11/1 | 0.0013 | 0.014 | / | 0.097 | 0.0010 | / | / | / | 0.5m |
| T-D9 | 2017/12/20 | ND(0.0013) | 0.0043 | ND(17) | ND(0.32) | / | / | / | / | S |
| | 2018/1/5 | ND(0.0012) | 0.0070 | ND(18) | ND(0.36) | 0.0018 | ND(2.2) | / | / | S |
| | 2018/1/15 | ND(0.0014) | 0.010 | ND(14) | ND(0.31) | / | / | / | / | S |
| T-3 | 2017/12/19 | 0.0028 | 0.021 | ND(18) | ND(0.30) | / | / | / | / | S |
| | 2018/1/4 | 0.0082 | 0.053 | ND(14) | ND(0.33) | / | / | / | / | S |
| | 2018/1/16 | 0.0039 | 0.025 | ND(15) | 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 | Grossβ * | 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 β excluding K-40

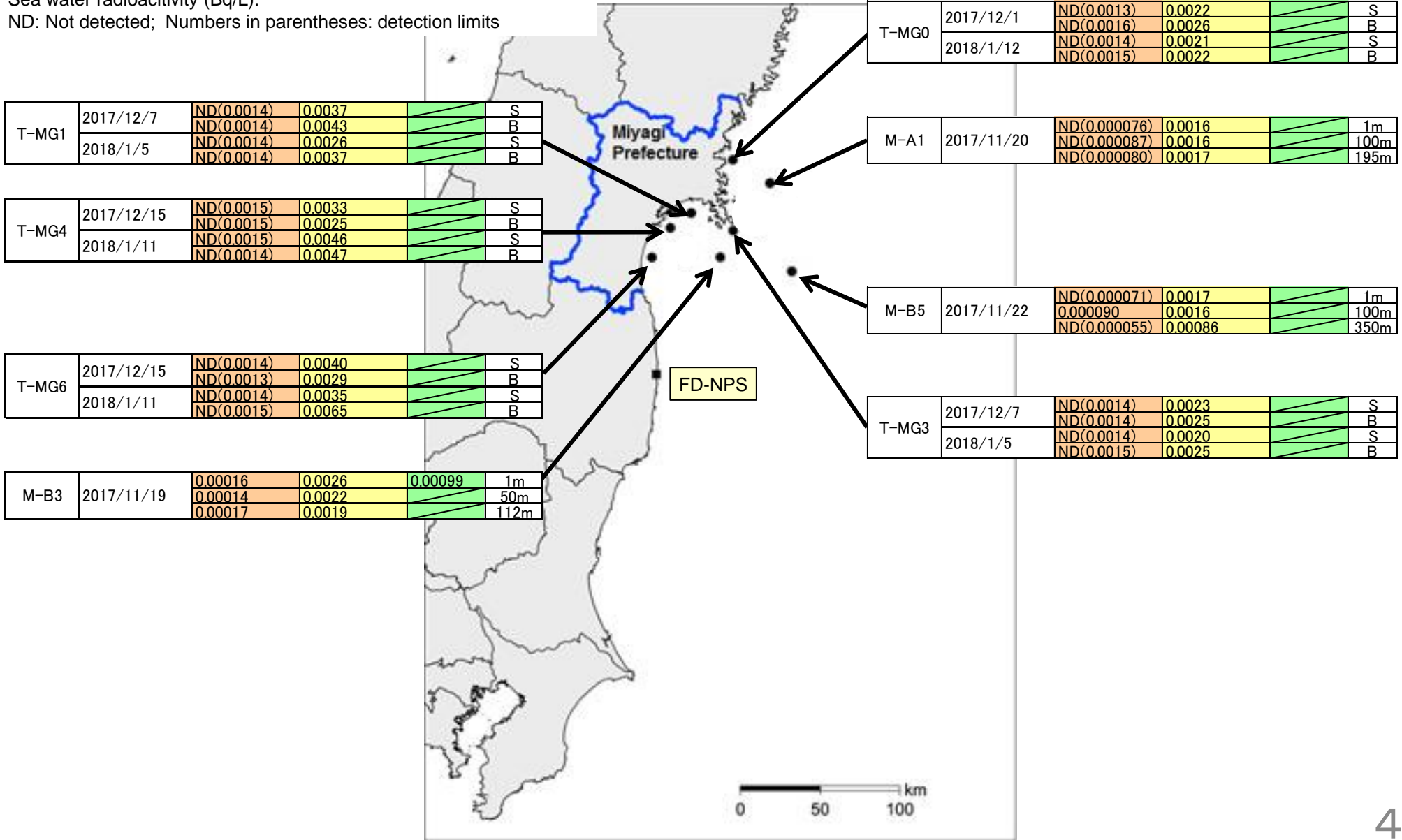


Most recent radioactivity data of sea area along and off the coast of Miyagi Prefecture

| Sampling point | Sampling Date | Cs-134 | Cs-137 | 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

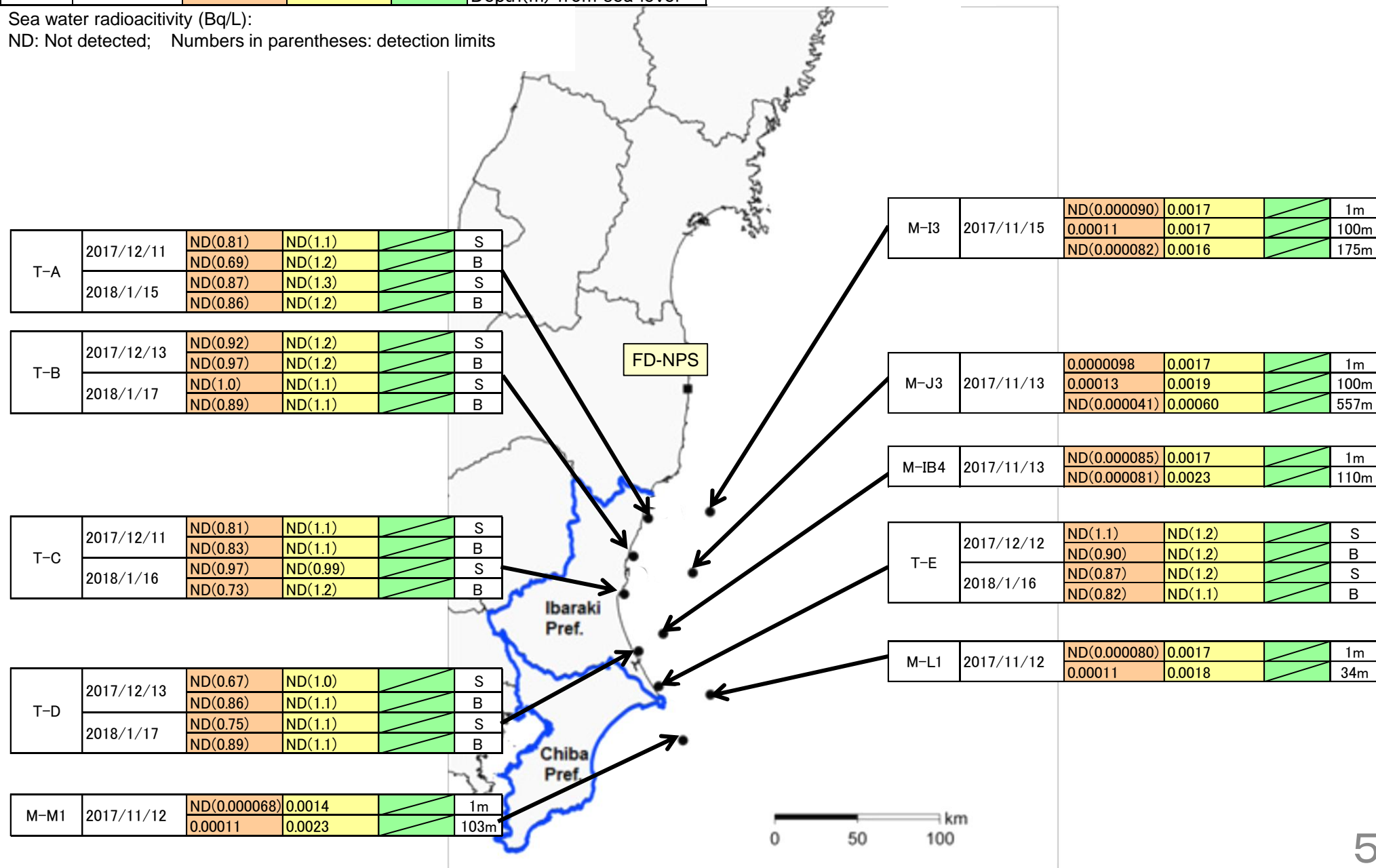


Most recent radioactivity data of sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

| Sampling point | Sampling Date | Cs-134 | Cs-137 | 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



Most recent radioactivity data of open sea off the coast of Eastern Japan

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Depth(m) from sea level |
|----------------|---------------|--------|--------|-------------------------|
|----------------|---------------|--------|--------|-------------------------|

Sea water radioactivity (Bq/L):
 ND: Not detected; Numbers in parentheses: detection limits

| | | | | |
|------|-----------|-------------|---------|------|
| M-10 | 2017/5/27 | ND(0.00059) | 0.0011 | 1m |
| | | ND(0.00058) | 0.0011 | 100m |
| | | ND(0.00062) | 0.00097 | 200m |
| | | ND(0.00057) | 0.00099 | 300m |
| | | ND(0.00055) | 0.00071 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-14 | 2017/5/28 | ND(0.00059) | 0.0027 | 1m |
| | | ND(0.00062) | 0.0023 | 100m |
| | | ND(0.00051) | 0.0018 | 200m |
| | | ND(0.00055) | 0.0012 | 300m |
| | | ND(0.00054) | 0.00081 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-19 | 2017/5/31 | ND(0.00055) | 0.0025 | 1m |
| | | ND(0.00062) | 0.0025 | 100m |
| | | ND(0.00061) | 0.0026 | 200m |
| | | ND(0.00064) | 0.0018 | 300m |
| | | ND(0.00063) | 0.00096 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-20 | 2017/5/29 | ND(0.00063) | 0.0018 | 1m |
| | | ND(0.00059) | 0.0027 | 100m |
| | | ND(0.00059) | 0.0028 | 200m |
| | | ND(0.00062) | 0.0027 | 300m |
| | | ND(0.00062) | 0.0024 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-25 | 2017/5/31 | ND(0.00063) | 0.0016 | 1m |
| | | ND(0.00062) | 0.0023 | 100m |
| | | ND(0.00062) | 0.0027 | 200m |
| | | ND(0.00062) | 0.0032 | 300m |
| | | ND(0.00061) | 0.0032 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-11 | 2017/5/27 | ND(0.00059) | 0.0024 | 1m |
| | | ND(0.00052) | 0.0023 | 100m |
| | | ND(0.00060) | 0.0019 | 200m |
| | | ND(0.00059) | 0.0014 | 300m |
| | | ND(0.00061) | 0.00075 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-15 | 2017/5/28 | ND(0.00067) | 0.0018 | 1m |
| | | ND(0.00061) | 0.0017 | 100m |
| | | ND(0.00070) | 0.0016 | 200m |
| | | ND(0.00061) | 0.0011 | 300m |
| | | ND(0.00063) | 0.0010 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-21 | 2017/5/29 | ND(0.00057) | 0.0016 | 1m |
| | | ND(0.00064) | 0.0025 | 100m |
| | | ND(0.00058) | 0.0031 | 200m |
| | | ND(0.00057) | 0.0031 | 300m |
| | | ND(0.00060) | 0.0021 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-27 | 2017/5/30 | ND(0.00059) | 0.0016 | 1m |
| | | ND(0.00064) | 0.0029 | 100m |
| | | ND(0.00061) | 0.0031 | 200m |
| | | ND(0.00061) | 0.0028 | 300m |
| | | ND(0.00062) | 0.0026 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-26 | 2017/5/30 | ND(0.00056) | 0.0018 | 1m |
| | | ND(0.00054) | 0.0021 | 100m |
| | | ND(0.00057) | 0.0030 | 200m |
| | | ND(0.00056) | 0.0029 | 300m |
| | | ND(0.00057) | 0.0020 | 500m |

