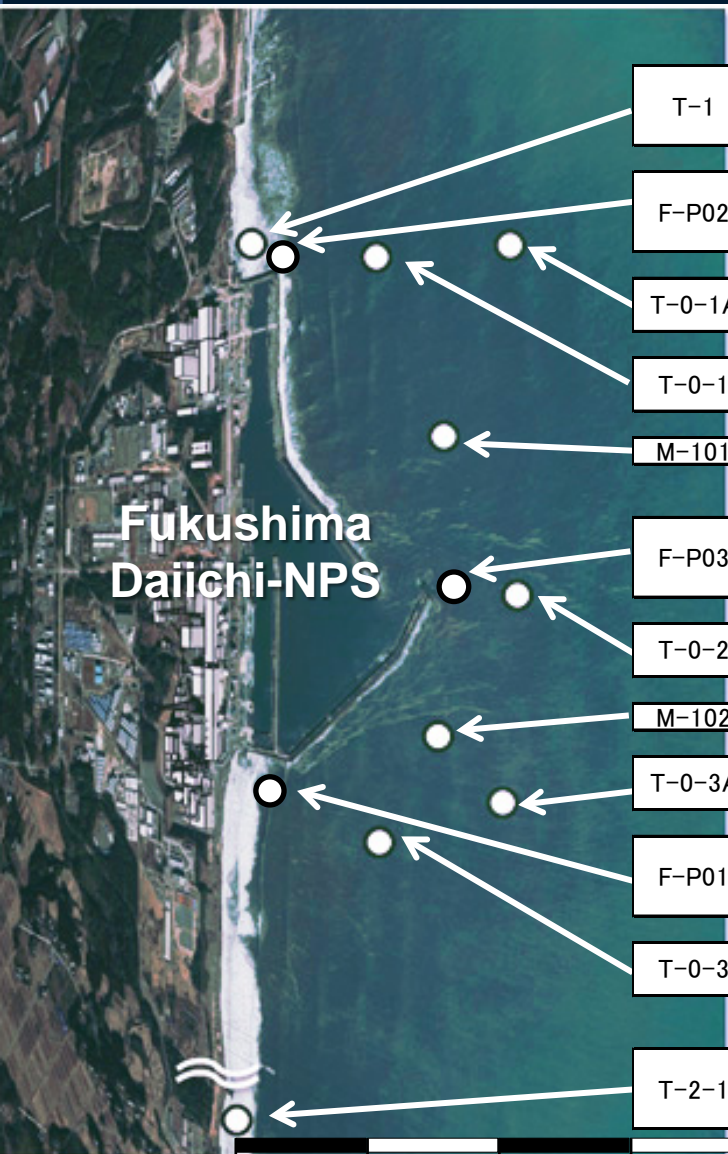


Sea Area Monitoring

November 25, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



Fukushima Daiichi-NPS

| Sampling point | Sampling Date | Cs-134 | Cs-137 | total β | H-3 | Sr-90 | total α | Pu-238 | Pu-239+Pu-240 |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|

Sea water radioactivity (Bq/L):
 ND: under detection limits; Numbers in parentheses: detection limits
 *1: Total β : including K-40 *2: Total β : excluding K-40

| | | | | | | | | | |
|--------|------------|-----------|-----------|----------------------|-------------|-------------|---------|-----------------------------|---------------------------------|
| T-1 | 2014/11/10 | ND(0.73) | ND(0.72) | 10 ^{*1} | ND(1.8) | | | | |
| | 2014/9/8 | ND(0.66) | ND(0.69) | 11 ^{*1} | 3.7 | 0.23 | ND(2.0) | | |
| | 2014/4/10 | ND(0.85) | ND(0.82) | | | | | ND(5.6 × 10 ⁻⁶) | (9.4 ± 2.2) × 10 ⁻⁶ |
| F-P02 | 2014/9/16 | 0.13 | 0.35 | 0.14 ^{*2} | 0.84 | In progress | | In progress | In progress |
| | 2014/7/7 | ND(0.062) | 0.17 | 0.09 ^{*2} | 0.44 | 0.083 | | In progress | In progress |
| | 2014/6/16 | ND(0.066) | ND(0.050) | 0.03 ^{*2} | ND(0.41) | 0.002 | | ND(7 × 10 ⁻⁶) | ND(7 × 10 ⁻⁶) |
| T-0-1A | 2014/11/11 | ND(0.66) | ND(0.63) | ND(15) ^{*1} | In progress | | | | |
| | 2014/11/4 | ND(0.65) | ND(0.63) | ND(15) ^{*1} | ND(1.5) | | | | |
| T-0-1 | 2014/11/11 | ND(0.74) | ND(0.58) | ND(15) ^{*1} | In progress | | | | |
| | 2014/11/4 | ND(0.69) | ND(0.58) | ND(15) ^{*1} | ND(1.5) | | | | |
| M-101 | 2014/9/13 | 0.040 | 0.12 | | 0.17 | 0.019 | | | |
| F-P03 | 2014/9/16 | 0.35 | 0.94 | 0.23 ^{*2} | 2.5 | In progress | | In progress | In progress |
| | 2014/7/7 | 0.24 | 0.72 | 0.38 ^{*2} | 2.6 | 0.66 | | In progress | In progress |
| | 2014/6/16 | ND(0.080) | ND(0.071) | 0.03 ^{*2} | ND(0.41) | 0.003 | | ND(1.3 × 10 ⁻⁶) | ND(1.1 × 10 ⁻⁶) |
| T-0-2 | 2014/11/11 | ND(0.77) | ND(0.57) | ND(15) ^{*1} | In progress | | | | |
| | 2014/11/4 | ND(0.67) | ND(0.76) | ND(15) ^{*1} | ND(1.5) | | | | |
| M-102 | 2014/9/12 | 0.039 | 0.12 | | 0.13 | 0.010 | | | |
| T-0-3A | 2014/11/11 | ND(0.56) | ND(0.80) | ND(15) ^{*1} | In progress | | | | |
| | 2014/11/4 | ND(0.81) | ND(0.76) | ND(15) ^{*1} | ND(1.5) | | | | |
| F-P01 | 2014/9/16 | 0.060 | 0.14 | 0.04 ^{*2} | 0.51 | In progress | | In progress | In progress |
| | 2014/7/7 | ND(0.064) | ND(0.068) | 0.04 ^{*2} | ND(0.42) | 0.004 | | In progress | In progress |
| | 2014/6/16 | ND(0.056) | 0.074 | 0.04 ^{*2} | ND(0.41) | 0.012 | | ND(6 × 10 ⁻⁶) | ND(6 × 10 ⁻⁶) |
| T-0-3 | 2014/11/11 | ND(0.92) | ND(0.69) | ND(15) ^{*1} | In progress | | | | |
| | 2014/11/4 | ND(0.90) | ND(0.73) | ND(15) ^{*1} | ND(1.5) | | | | |
| T-2-1 | 2014/11/10 | ND(0.71) | ND(0.68) | 15 ^{*1} | ND(1.8) | | | | |
| | 2014/9/22 | ND(0.64) | ND(0.67) | 12 ^{*1} | ND(1.9) | ND(0.0079) | ND(2.0) | | |
| | 2014/4/10 | ND(0.70) | ND(0.58) | 9.0 ^{*1} | | | | ND(5.6 × 10 ⁻⁶) | (3.1 ± 0.41) × 10 ⁻⁶ |



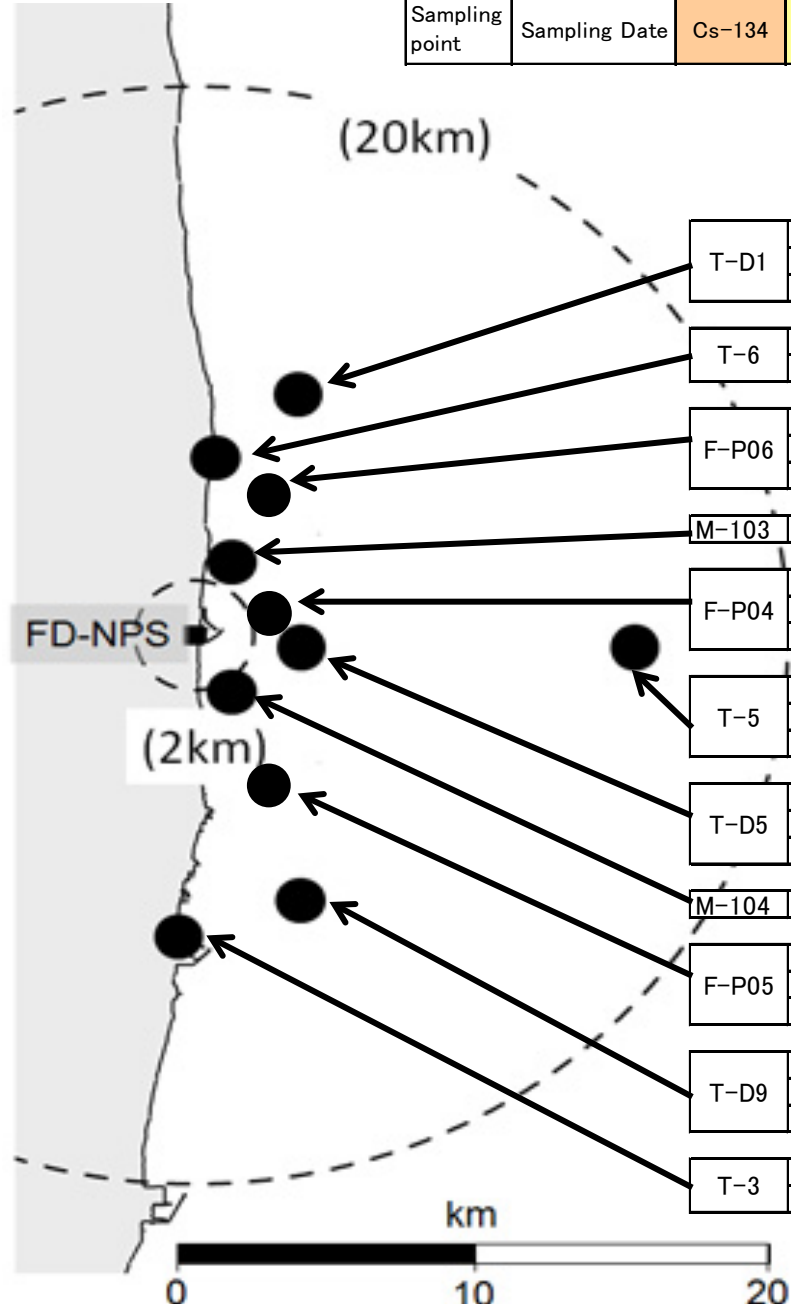
Sea area between 2-20km radius from the NPS (1)

| Sampling point | Sampling Date | Cs-134 | Cs-137 | total β | H-3 | Sr-90 | total α | Pu-238 | Pu-239+Pu-240 | S | S:2m below sea level |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|---|----------------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|---|----------------------|

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

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

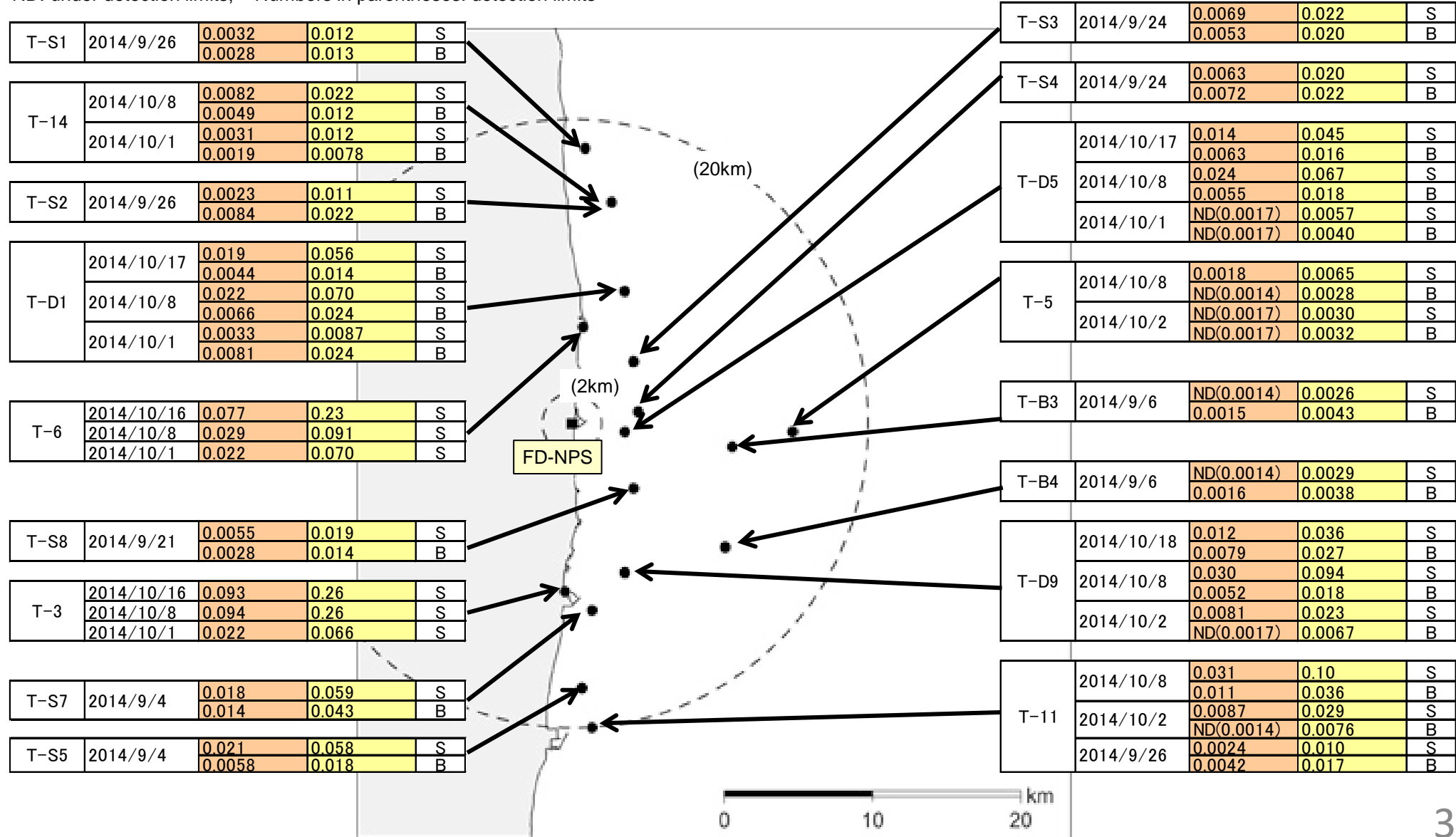


| | | | | | | | | | | |
|-------|------------|------------|-----------|----------|----------|-------------|---------|-----------------------------|--------------------------------|------|
| T-D1 | 2014/10/1 | 0.0033 | 0.0087 | ND(17)*1 | ND(0.32) | ND(0.009) | ND(1.9) | | | S |
| | 2014/9/16 | 0.0042 | 0.013 | ND(15) | ND(0.32) | | | | | S |
| | 2014/4/1 | 0.0027 | 0.0086 | ND(17)*1 | ND(0.30) | ND(0.009) | ND(1.9) | ND(5.3 × 10 ⁻⁶) | (5.7 ± 1.7) × 10 ⁻⁶ | S |
| T-6 | 2014/10/16 | 0.077 | 0.23 | ND(17)*1 | ND(0.30) | | | | | S |
| | 2014/9/16 | 0.017 | 0.049 | ND(17)*1 | ND(0.38) | | | | | S |
| F-P06 | 2014/9/16 | ND(0.053) | ND(0.046) | 0.04*2 | ND(0.42) | In progress | | In progress | In progress | S |
| | 2014/7/7 | ND(0.056) | ND(0.051) | 0.02*2 | ND(0.42) | 0.003 | | In progress | In progress | S |
| | 2014/6/16 | ND(0.055) | ND(0.055) | 0.03*2 | ND(0.40) | 0.001 | | ND(1.4 × 10 ⁻⁵) | ND(1.3 × 10 ⁻⁵) | S |
| M-103 | 2014/9/13 | 0.016 | 0.052 | | 0.10 | 0.0011 | | | | 0.5m |
| F-P04 | 2014/9/16 | ND(0.061) | 0.058 | 0.03*2 | ND(0.43) | In progress | | In progress | In progress | S |
| | 2014/7/7 | ND(0.065) | ND(0.065) | 0.04*2 | ND(0.42) | 0.004 | | In progress | In progress | S |
| | 2014/6/16 | ND(0.074) | ND(0.053) | 0.03*2 | ND(0.41) | 0.004 | | ND(6 × 10 ⁻⁶) | 6 × 10 ⁻⁶ | S |
| T-5 | 2014/10/2 | ND(0.0017) | 0.0030 | ND(17)*1 | ND(0.32) | ND(0.009) | ND(1.9) | | | S |
| | 2014/9/16 | ND(0.0017) | 0.0022 | ND(15)*1 | ND(0.32) | | | | | S |
| | 2014/4/2 | ND(0.0014) | 0.0044 | ND(17)*1 | ND(0.30) | ND(0.009) | ND(1.9) | ND(5.5 × 10 ⁻⁶) | (8.3 ± 2.1) × 10 ⁻⁶ | S |
| T-D5 | 2014/10/1 | ND(0.0017) | 0.0057 | ND(17)*1 | ND(0.32) | ND(0.009) | ND(1.9) | | | S |
| | 2014/9/16 | 0.0031 | 0.012 | ND(15)*1 | ND(0.32) | | | | | S |
| | 2014/4/1 | 0.0058 | 0.012 | ND(17)*1 | ND(0.30) | ND(0.009) | ND(1.9) | ND(5.2 × 10 ⁻⁶) | ND(4.5 × 10 ⁻⁶) | S |
| M-104 | 2014/9/12 | 0.030 | 0.094 | | 0.15 | 0.0069 | | | | 0.5m |
| F-P05 | 2014/9/16 | ND(0.058) | ND(0.061) | 0.04*2 | ND(0.42) | In progress | | In progress | In progress | S |
| | 2014/7/7 | ND(0.056) | ND(0.059) | 0.04*2 | ND(0.41) | 0.006 | | In progress | In progress | S |
| | 2014/6/16 | ND(0.060) | ND(0.076) | 0.03*2 | ND(0.41) | 0.001 | | ND(6 × 10 ⁻⁶) | 6 × 10 ⁻⁶ | S |
| T-D9 | 2014/10/2 | 0.0081 | 0.023 | ND(17)*1 | ND(0.32) | ND(0.008) | ND(1.9) | | | S |
| | 2014/9/16 | 0.011 | 0.034 | ND(15)*1 | ND(0.32) | | | | | S |
| | 2014/4/2 | 0.0041 | 0.01 | ND(16)*1 | ND(0.30) | ND(0.008) | ND(1.9) | ND(4.7 × 10 ⁻⁶) | ND(4.5 × 10 ⁻⁶) | S |
| T-3 | 2014/10/16 | 0.093 | 0.26 | ND(17)*1 | ND(0.30) | | | | | S |
| | 2014/9/16 | 0.043 | 0.12 | ND(17)*1 | ND(0.38) | | | | | S |

Sea area between 2-20km radius from the NPS (2)

| Sampling point | Sampling Date | Cs-134 | Cs-137 | S/B |
|-------------------------|---------------|--------|--------|-----|
| S:2m below sea level | | | | |
| B:2-3m above sea bottom | | | | |

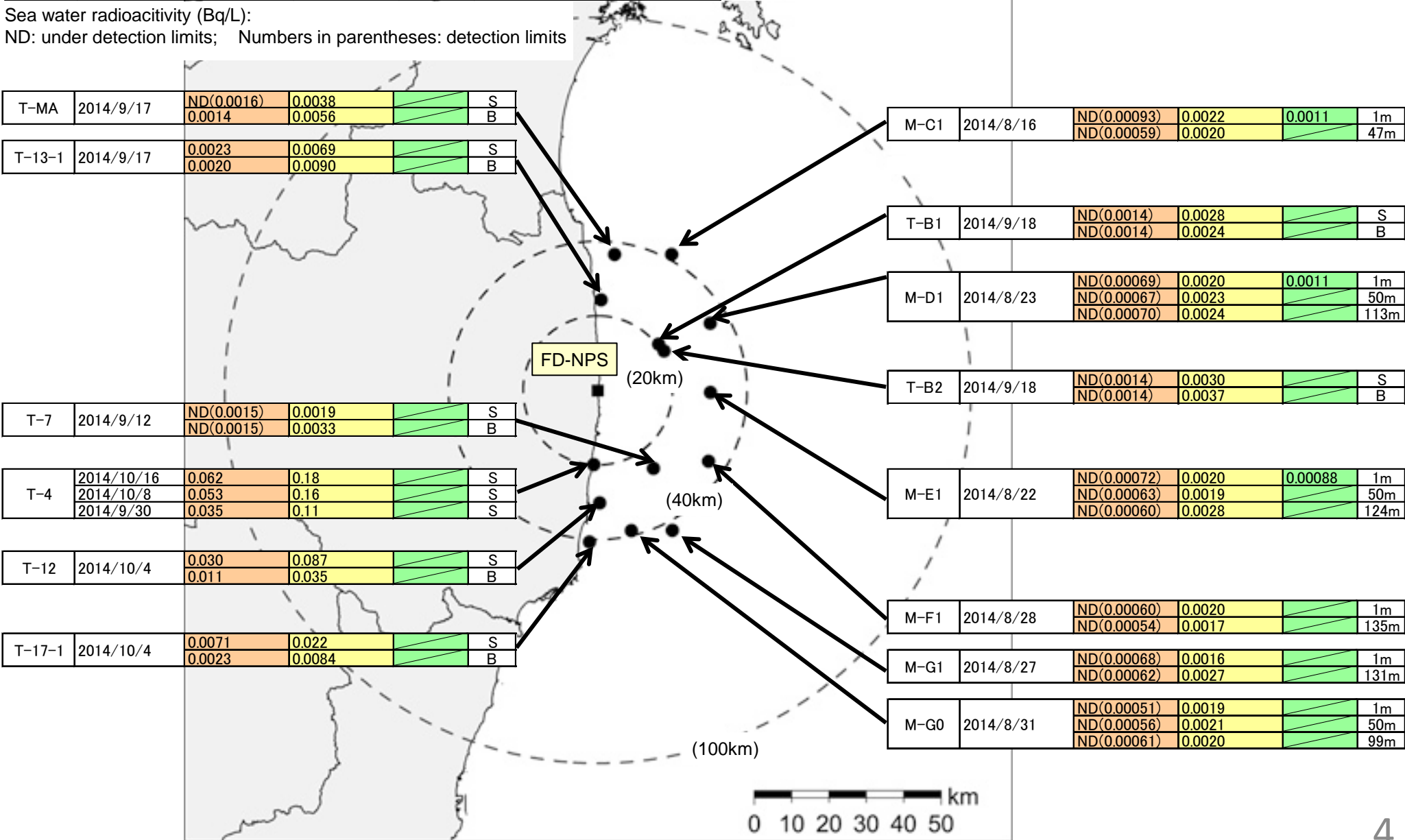
Sea water radioactivity (Bq/L):
 ND: under detection limits; Numbers in parentheses: detection limits



Sea area between 20-100km radius from the NPS(1)

| 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 | | | | | | |

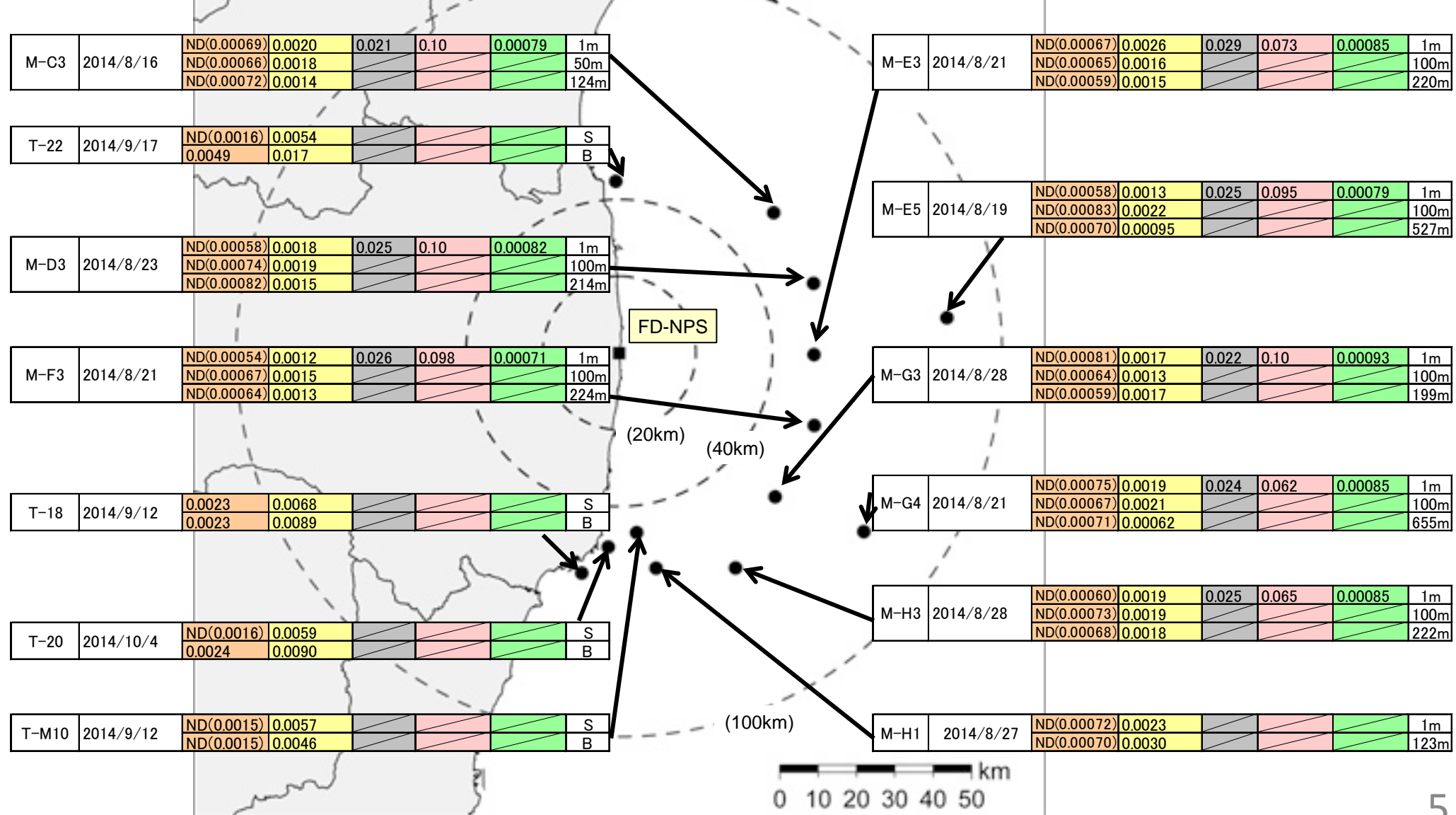
Sea water radioactivity (Bq/L):
 ND: under detection limits; Numbers in parentheses: detection limits



Sea area between 20-100km radius from the NPS(2)

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Total β * | 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: under detection limits; Numbers in parentheses: detection limits
 *Total β : excluding K-40



Sea area along and off the coast of Miyagi Prefecture

| Sampling point | Sampling Date | Cs-134 | Cs-137 | Sr-90 | S/M/B |
|----------------|---------------|--------|--------|-------|-------|
|----------------|---------------|--------|--------|-------|-------|

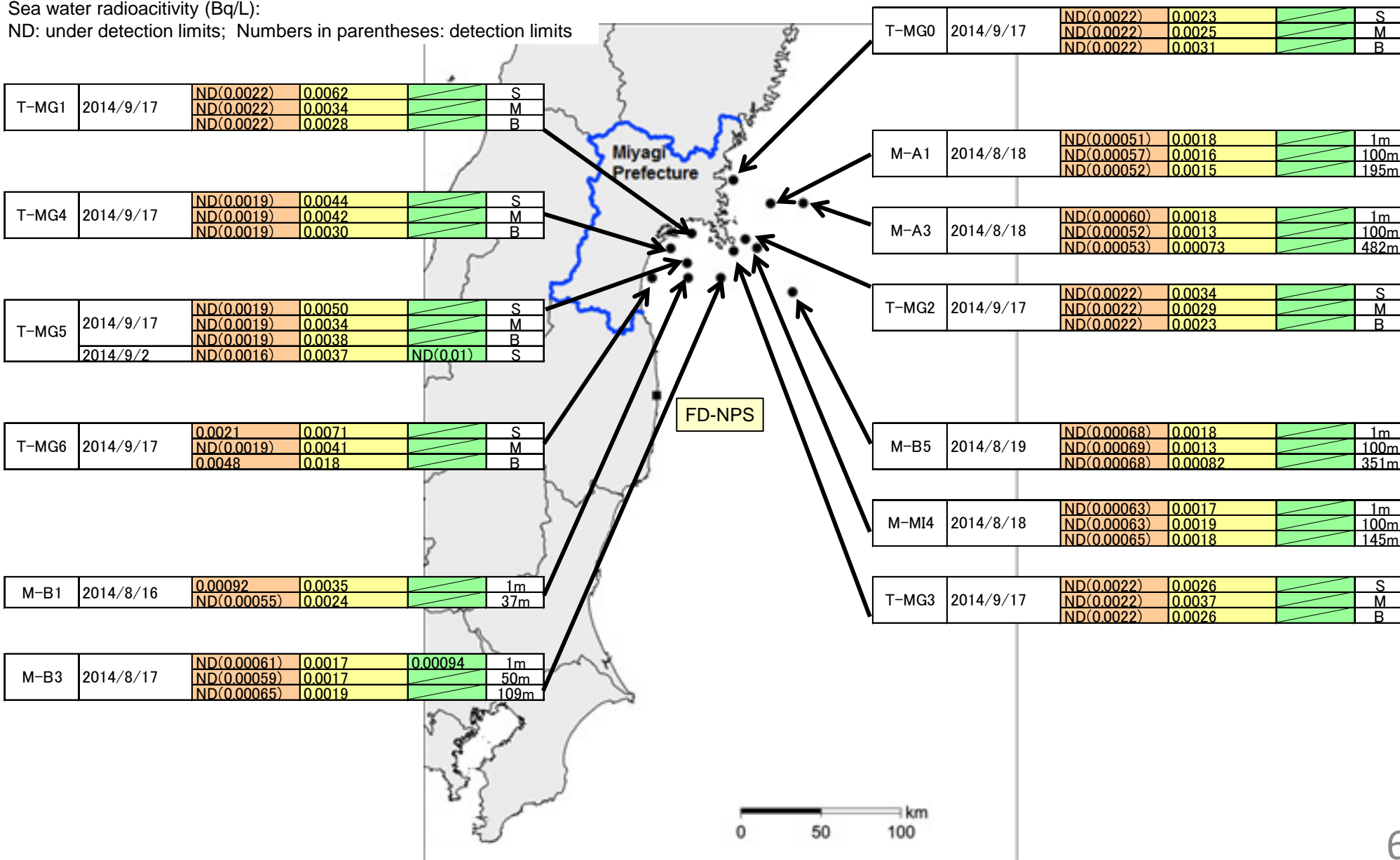
S:2m below sea level

M:between 2m below sea level and 2-3m above sea bottom

B:2-3m above sea bottom

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

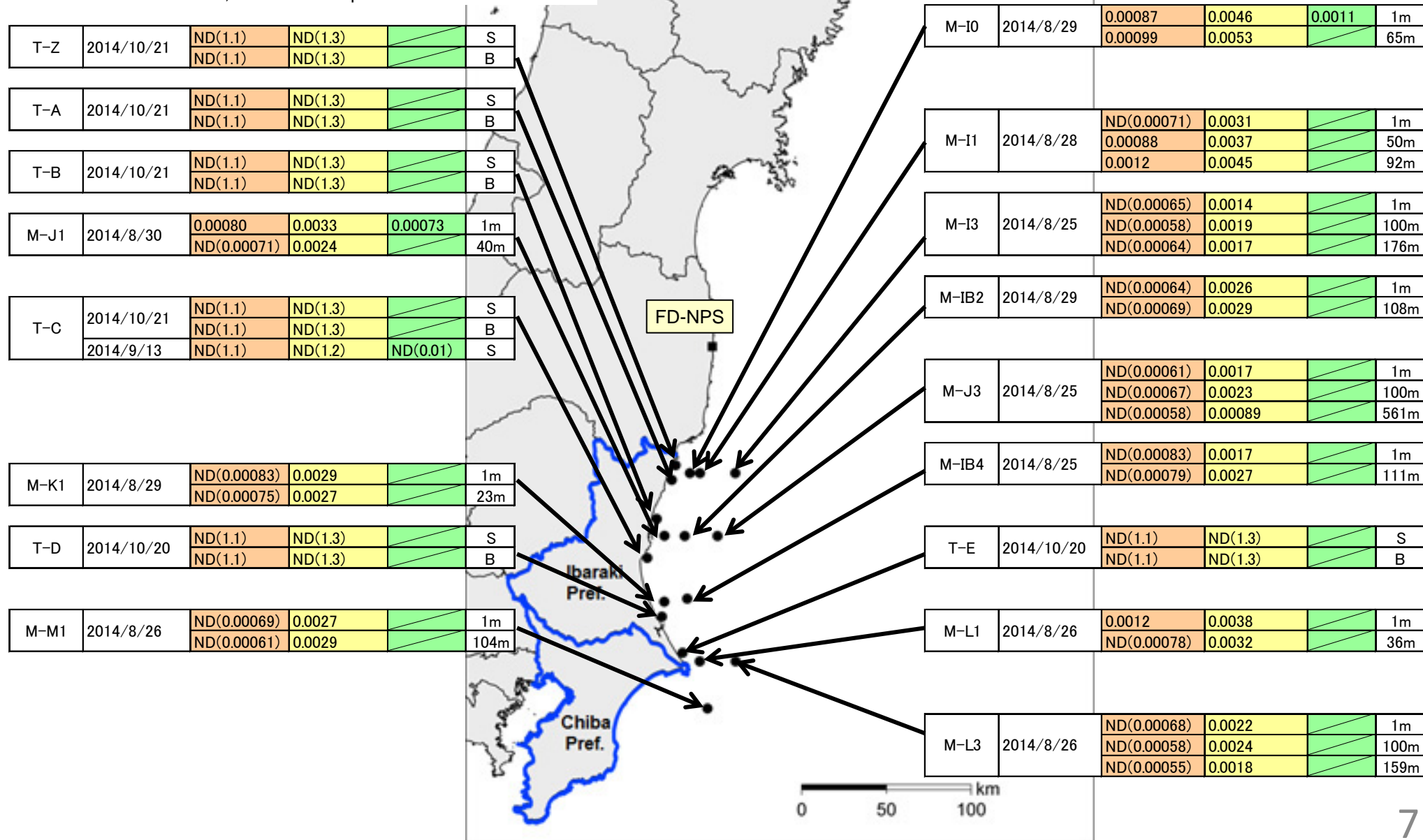


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

| 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: under detection limits; Numbers in parentheses: detection limits



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: under detection limits; Numbers in parentheses: detection limits

| | | | | |
|------|-----------|-------------|---------|------|
| M-10 | 2014/6/18 | ND(0.00054) | 0.0020 | 1m |
| | | ND(0.00073) | 0.0017 | 100m |
| | | ND(0.00052) | 0.0013 | 200m |
| | | ND(0.00058) | 0.0011 | 300m |
| | | ND(0.00051) | 0.00059 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-14 | 2014/6/19 | ND(0.00056) | 0.0022 | 1m |
| | | ND(0.00057) | 0.0018 | 100m |
| | | ND(0.00053) | 0.0016 | 200m |
| | | ND(0.00058) | 0.00093 | 300m |
| | | ND(0.00059) | 0.00054 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-19 | 2014/6/20 | 0.00095 | 0.0033 | 1m |
| | | ND(0.00057) | 0.0020 | 100m |
| | | ND(0.00063) | 0.0014 | 200m |
| | | ND(0.00053) | 0.0012 | 300m |
| | | ND(0.00057) | 0.00086 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-20 | 2014/6/21 | 0.00067 | 0.0026 | 1m |
| | | ND(0.00059) | 0.0028 | 100m |
| | | ND(0.00073) | 0.0024 | 200m |
| | | ND(0.00057) | 0.0015 | 300m |
| | | ND(0.00055) | 0.00070 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-25 | 2014/6/24 | ND(0.00057) | 0.0016 | 1m |
| | | ND(0.00055) | 0.0019 | 100m |
| | | 0.00069 | 0.0033 | 200m |
| | | 0.00097 | 0.0043 | 300m |
| | | ND(0.00060) | 0.0023 | 500m |

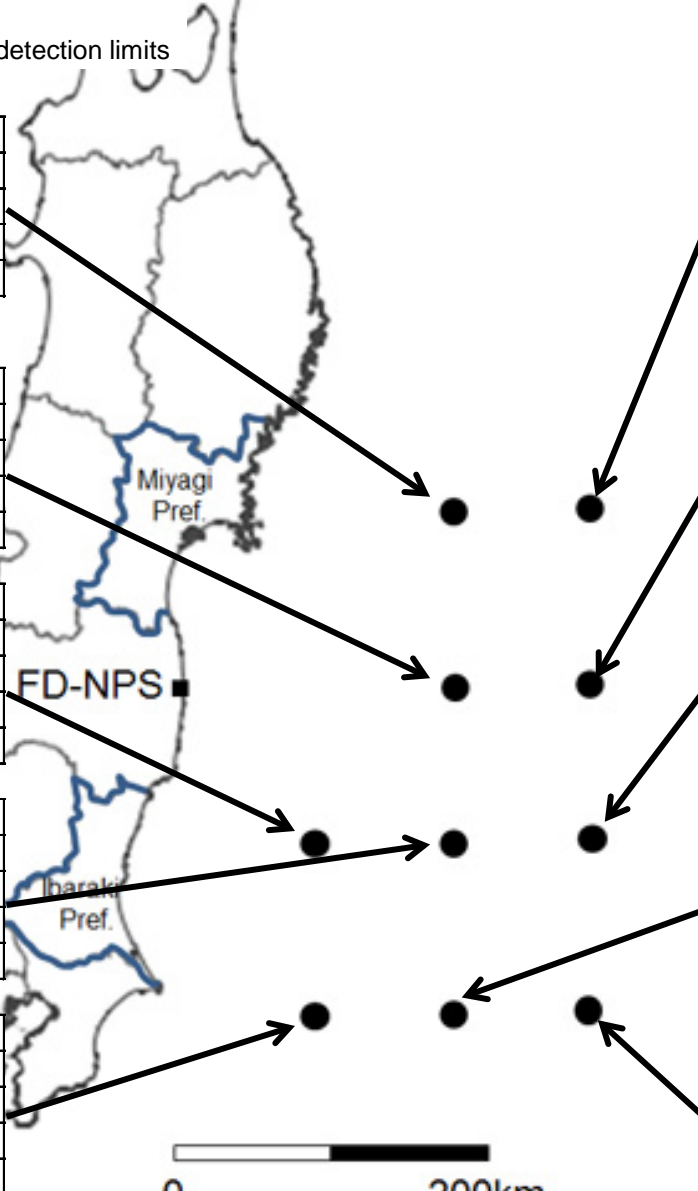
| | | | | |
|------|-----------|-------------|--------|------|
| M-11 | 2014/6/18 | 0.00062 | 0.0030 | 1m |
| | | 0.00078 | 0.0028 | 100m |
| | | ND(0.00052) | 0.0020 | 200m |
| | | ND(0.00054) | 0.0014 | 300m |
| | | ND(0.00059) | 0.0012 | 500m |

| | | | | |
|------|-----------|-------------|---------|------|
| M-15 | 2014/6/19 | ND(0.00056) | 0.0025 | 1m |
| | | ND(0.00055) | 0.0021 | 100m |
| | | ND(0.00060) | 0.0017 | 200m |
| | | ND(0.00052) | 0.0012 | 300m |
| | | ND(0.00061) | 0.00080 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-21 | 2014/6/21 | ND(0.00057) | 0.0020 | 1m |
| | | ND(0.00056) | 0.0029 | 100m |
| | | 0.00063 | 0.0032 | 200m |
| | | ND(0.00065) | 0.0021 | 300m |
| | | ND(0.00053) | 0.0015 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-26 | 2014/6/23 | ND(0.00056) | 0.0022 | 1m |
| | | ND(0.00069) | 0.0031 | 100m |
| | | 0.00099 | 0.0038 | 200m |
| | | 0.0013 | 0.0047 | 300m |
| | | 0.00066 | 0.0032 | 500m |

| | | | | |
|------|-----------|-------------|--------|------|
| M-27 | 2014/6/22 | ND(0.00057) | 0.0028 | 1m |
| | | ND(0.00070) | 0.0027 | 100m |
| | | 0.0010 | 0.0033 | 200m |
| | | ND(0.00056) | 0.0035 | 300m |
| | | 0.0011 | 0.0051 | 500m |



0 200km