

# Sea Area Monitoring

November 26, 2013 (corrected)

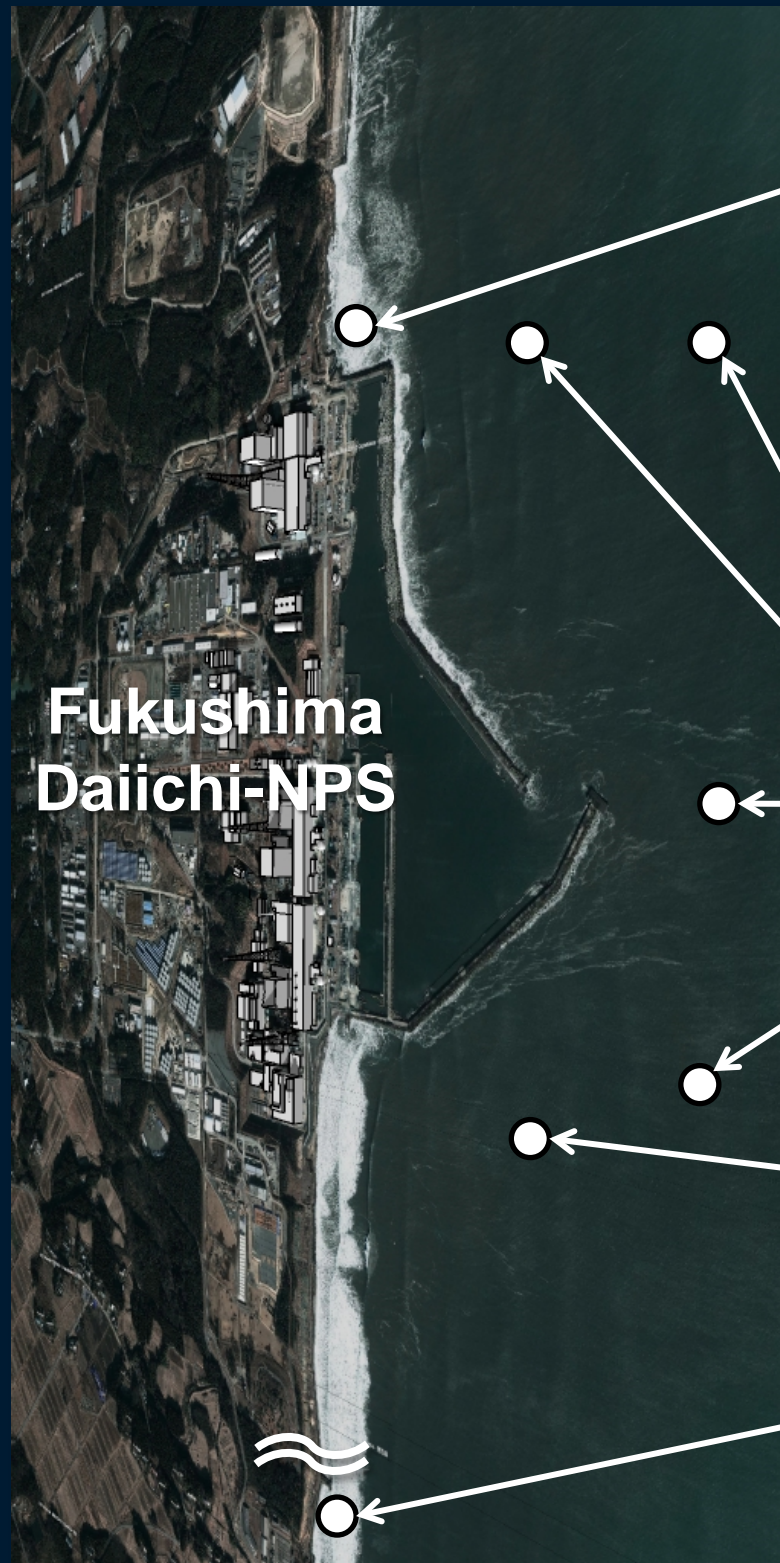
Nuclear Regulation Authority (NRA), Japan

# Sea area within 2km radius from the 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



**Fukushima  
Daiichi-NPS**

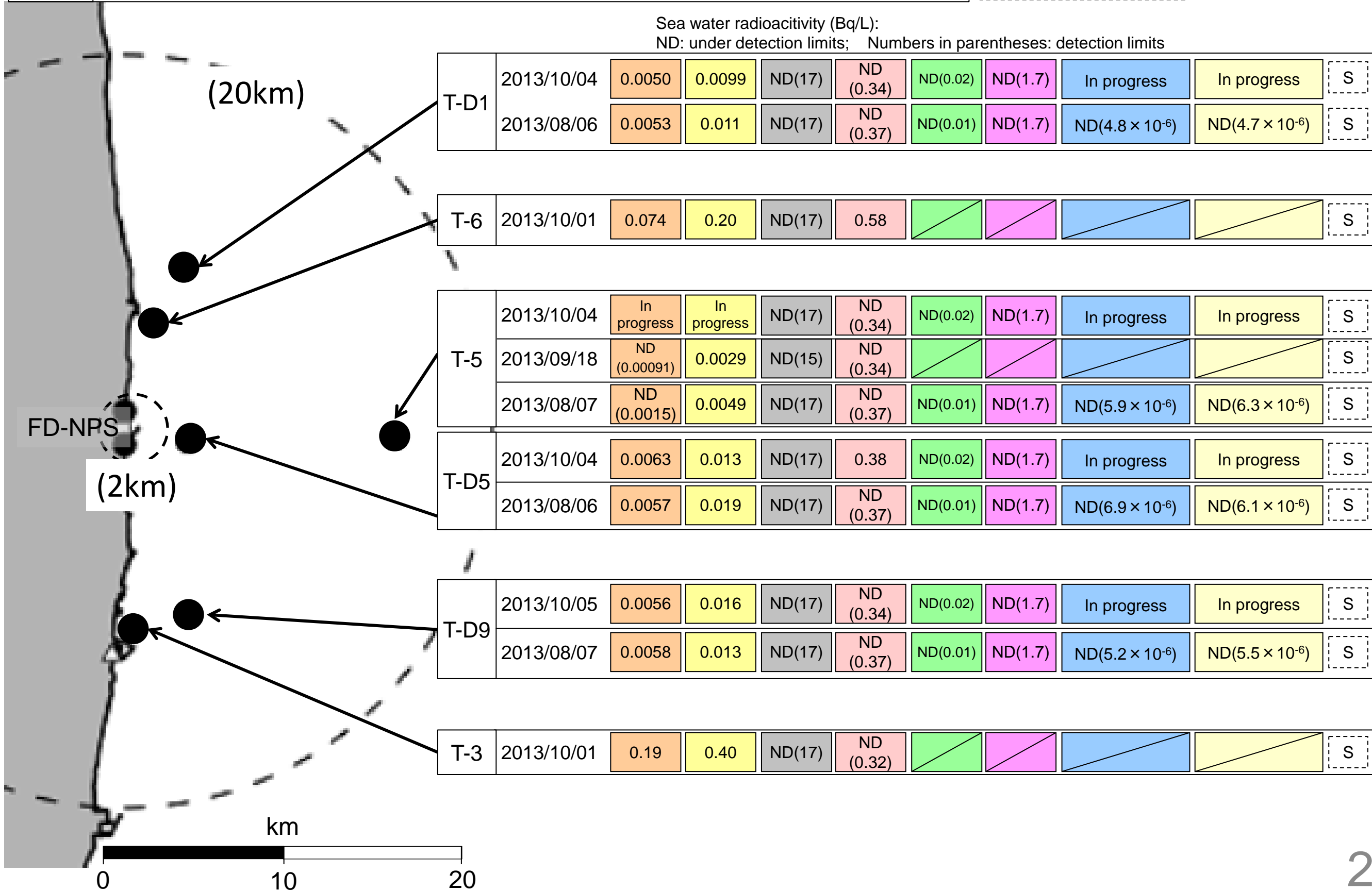
|        |            |          |          |        |             |             |         |                            |                                 |
|--------|------------|----------|----------|--------|-------------|-------------|---------|----------------------------|---------------------------------|
| T-1    | 2013/11/11 | ND(1.2)  | ND(1.3)  | ND(17) | ND(1.9)     | /           | /       | /                          | /                               |
|        | 2013/09/23 | ND(1.2)  | ND(1.4)  | ND(17) | ND(1.8)     | In progress | ND(2.6) | /                          | /                               |
|        | 2013/08/12 | ND(1.2)  | 1.4      | ND(19) | 4.7         | In progress | ND(2.4) | /                          | /                               |
|        | 2013/08/06 | ND(1.4)  | 1.7      | /      | /           | /           | /       | ND( $6.6 \times 10^{-6}$ ) | $(7.5 \pm 2.1) \times 10^{-6}$  |
| T-0-1A | 2013/11/13 | ND(0.76) | ND(0.76) | ND(17) | In progress | /           | /       | /                          | /                               |
|        | 2013/11/07 | ND(0.67) | ND(0.53) | ND(15) | ND(1.9)     | /           | /       | /                          | /                               |
| T-0-1  | 2013/11/13 | ND(0.73) | ND(0.64) | ND(17) | In progress | /           | /       | /                          | /                               |
|        | 2013/11/07 | ND(0.78) | ND(0.68) | ND(15) | ND(1.8)     | /           | /       | /                          | /                               |
| T-0-2  | 2013/11/13 | ND(0.52) | ND(0.64) | ND(17) | In progress | /           | /       | /                          | /                               |
|        | 2013/11/07 | ND(0.67) | ND(0.64) | ND(15) | ND(1.8)     | /           | /       | /                          | /                               |
| T-0-3A | 2013/11/13 | ND(0.63) | ND(0.76) | ND(17) | In progress | /           | /       | /                          | /                               |
|        | 2013/11/07 | ND(0.69) | ND(0.54) | ND(15) | ND(1.9)     | /           | /       | /                          | /                               |
| T-0-3  | 2013/11/13 | ND(0.71) | ND(0.58) | ND(17) | In progress | /           | /       | /                          | /                               |
|        | 2013/11/07 | ND(0.68) | ND(0.86) | ND(15) | ND(1.8)     | /           | /       | /                          | /                               |
| T-2-1  | 2013/11/11 | ND(1.2)  | ND(1.3)  | ND(17) | ND(1.9)     | /           | /       | /                          | /                               |
|        | 2013/09/23 | ND(1.2)  | ND(1.4)  | ND(17) | ND(1.8)     | In progress | ND(2.6) | /                          | /                               |
|        | 2013/08/12 | ND(1.2)  | ND(1.4)  | ND(19) | ND(2.9)     | In progress | ND(2.4) | /                          | /                               |
|        | 2013/08/06 | ND(1.4)  | ND(1.3)  | ND(21) | /           | /           | /       | ND( $7.6 \times 10^{-6}$ ) | $(1.1 \pm 0.29) \times 10^{-5}$ |

0 0.5 1km

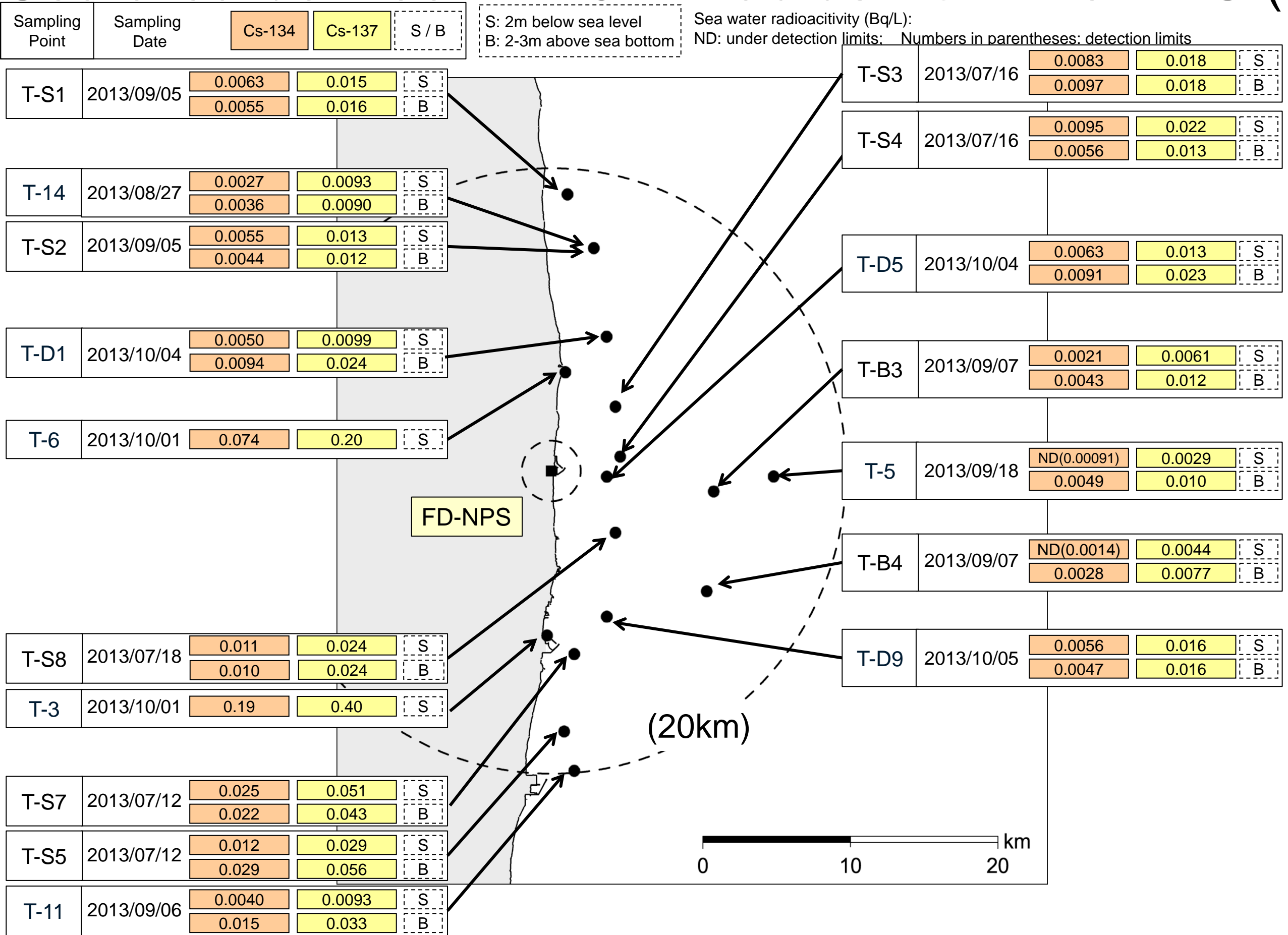
# Sea area between 2-20km radius from the NPS (1)

| 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

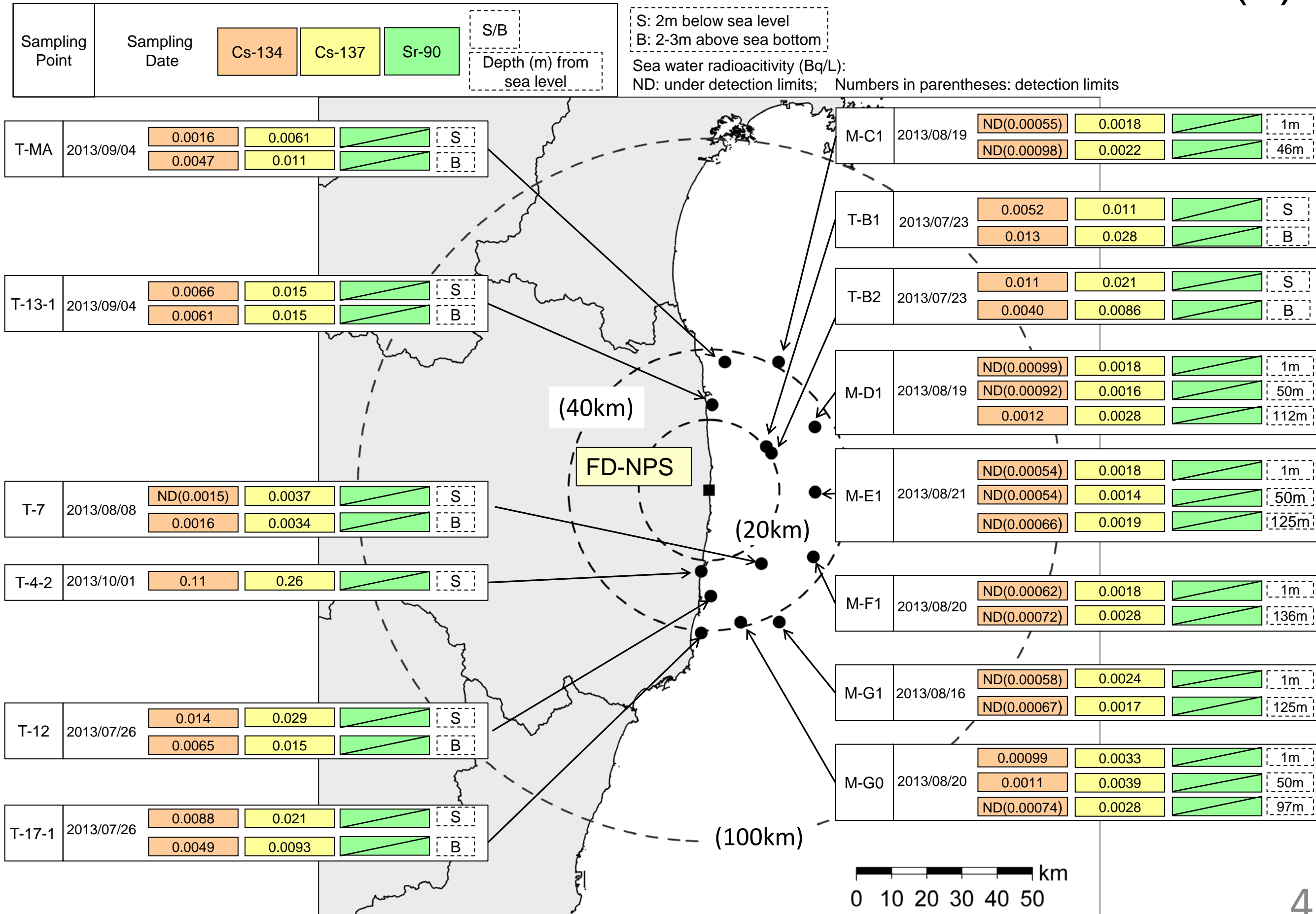


# Sea area between 2-20km radius from the NPS (2)

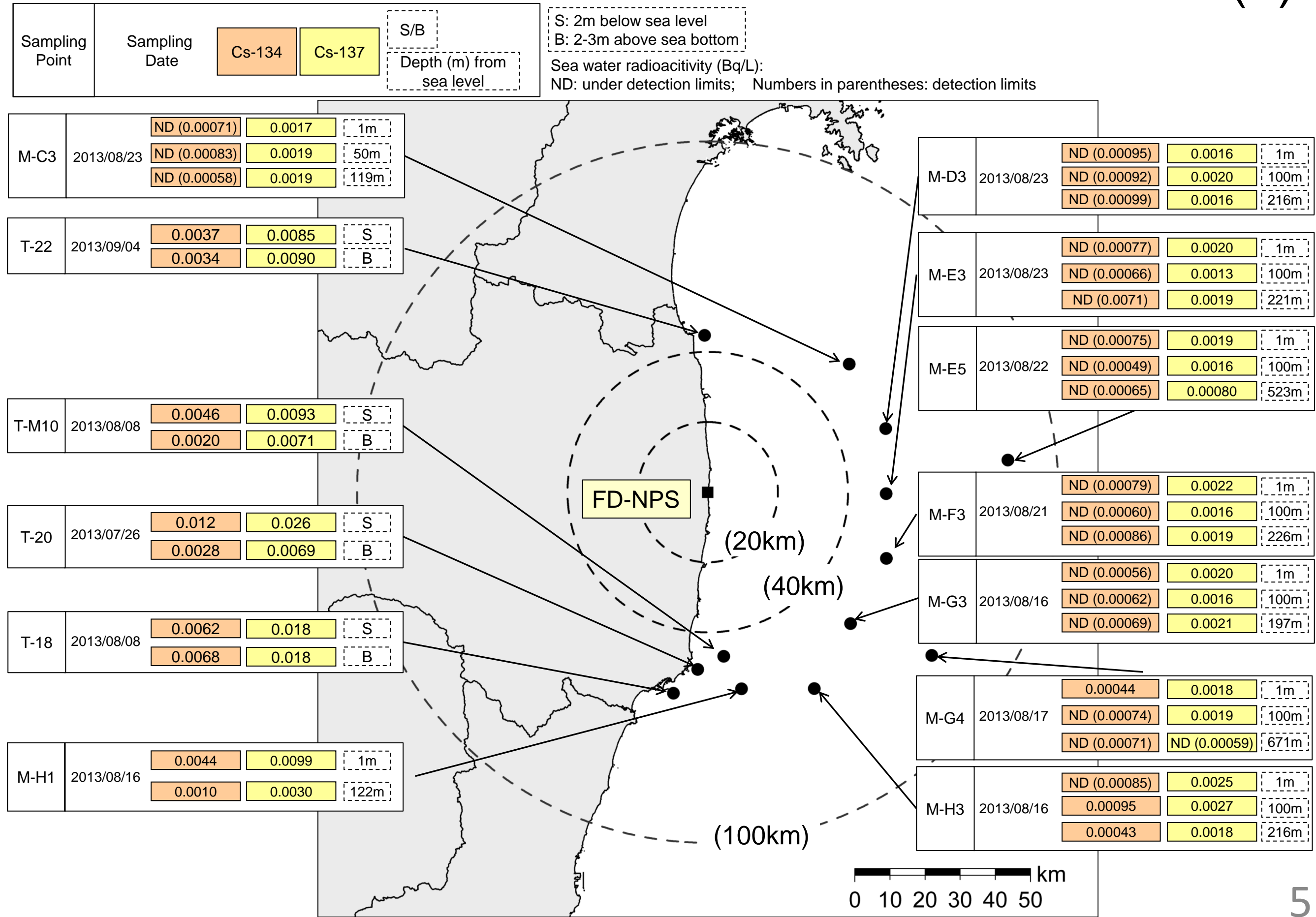




# Sea area between 20-100km radius from the NPS(1)



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



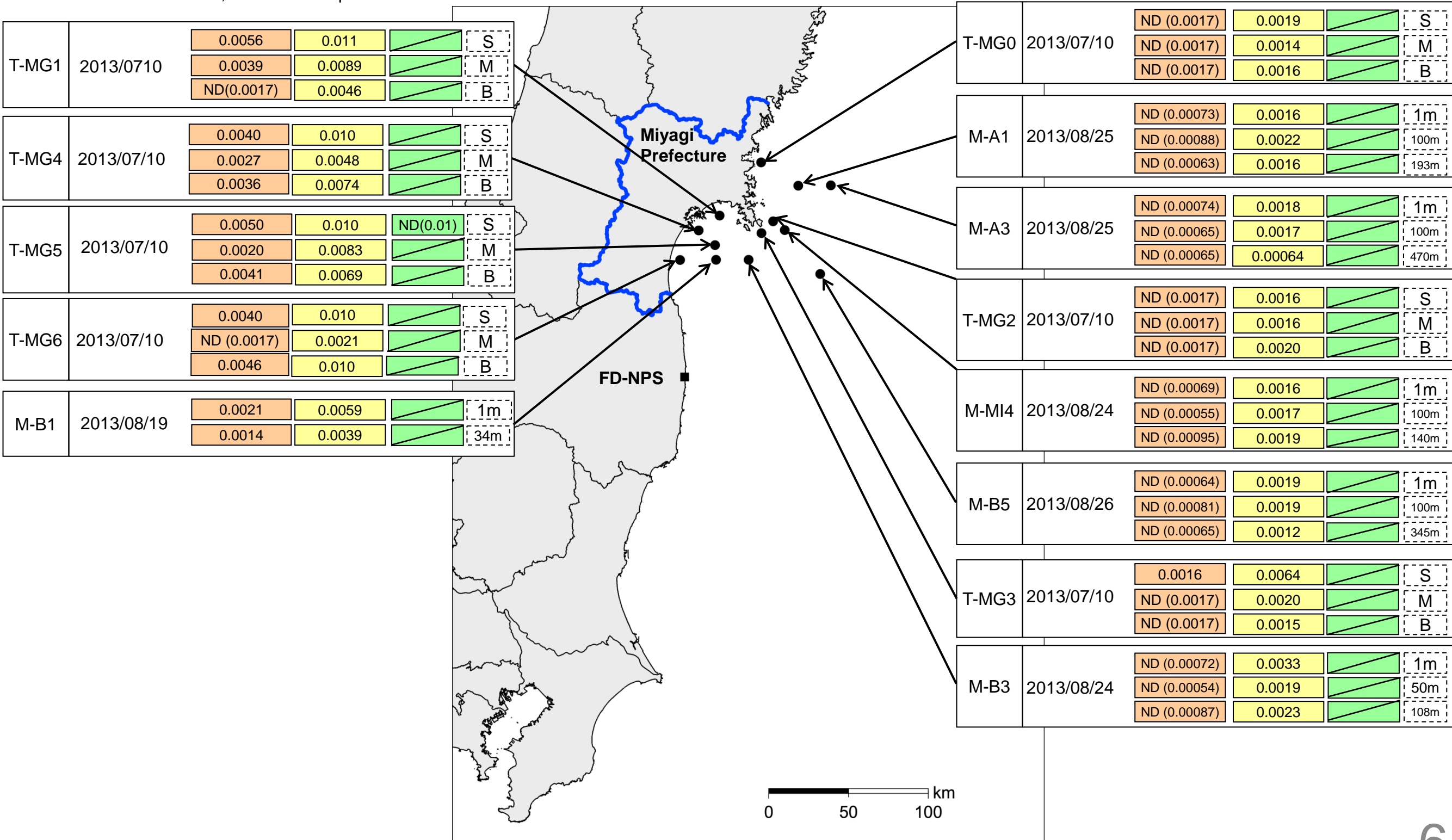
# Sea area along and off the coast of Miyagi Prefecture

| Sampling Point | Sampling Date | Cs-134                   | Cs-137 | Sr-90 | S/M/B |
|----------------|---------------|--------------------------|--------|-------|-------|
|                |               | Depth (m) from sea level |        |       |       |

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



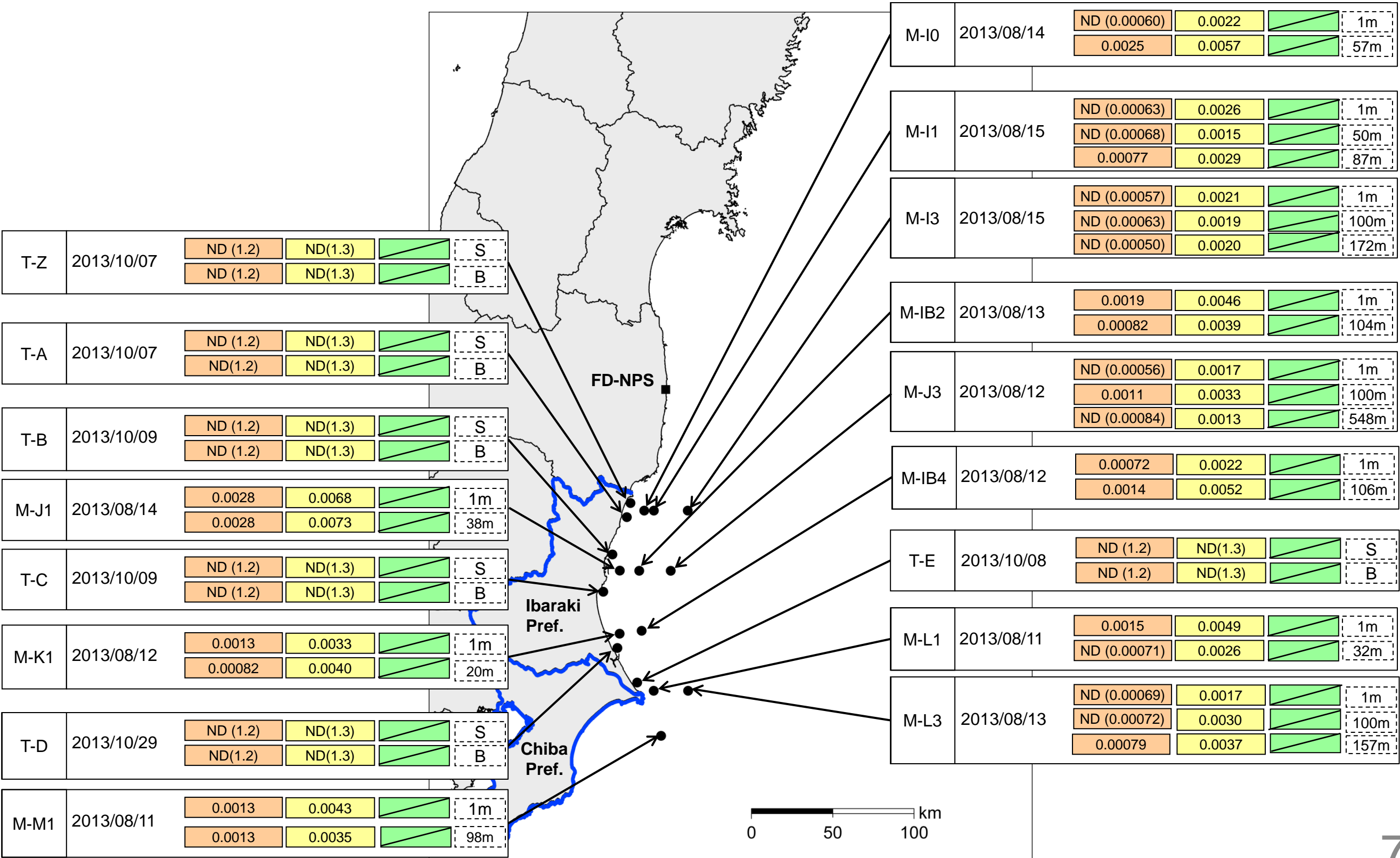
# Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

| Sampling Point | Sampling Date | S/B    |        |       | Depth (m) from sea level |
|----------------|---------------|--------|--------|-------|--------------------------|
|                |               | Cs-134 | Cs-137 | Sr-90 |                          |

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





# 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

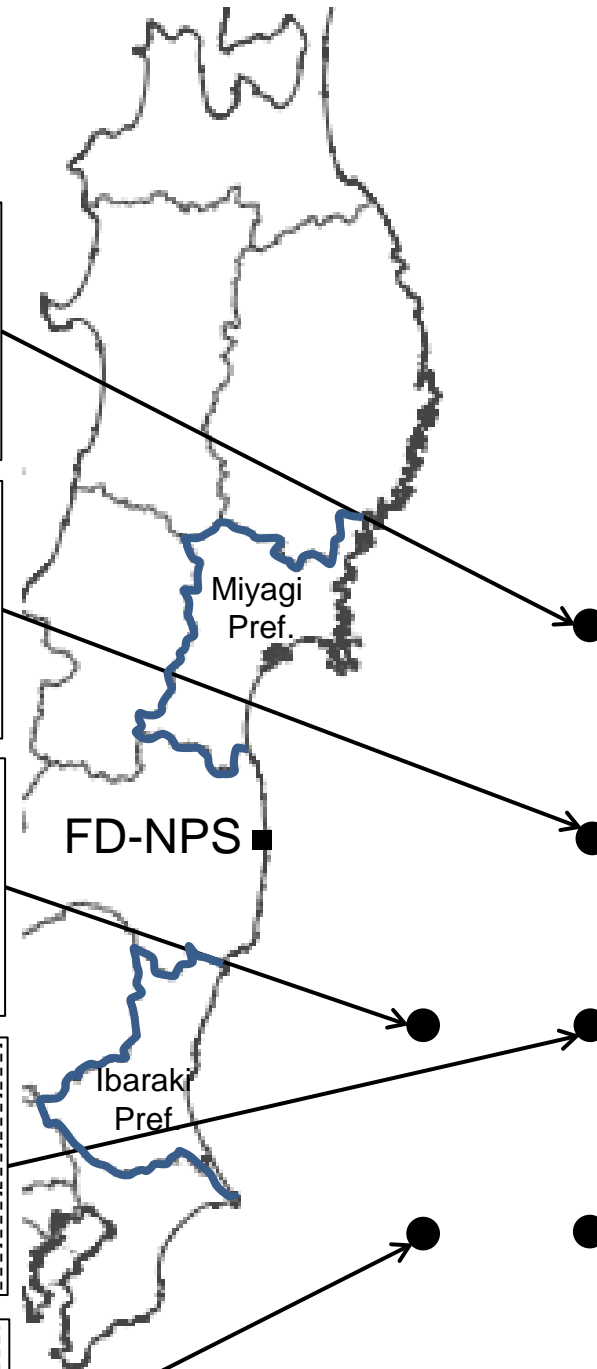
|      |            |              |         |      |
|------|------------|--------------|---------|------|
| M-10 | 2013/05/19 | 0.0011       | 0.0029  | 1m   |
|      |            | ND (0.00068) | 0.0021  | 100m |
|      |            | ND (0.00064) | 0.0022  | 200m |
|      |            | ND (0.00065) | 0.0019  | 300m |
|      |            | ND (0.00061) | 0.00091 | 500m |

|      |            |              |         |      |
|------|------------|--------------|---------|------|
| M-14 | 2013/05/18 | ND (0.00079) | 0.0026  | 1m   |
|      |            | ND (0.00074) | 0.0021  | 100m |
|      |            | ND (0.00074) | 0.0015  | 200m |
|      |            | ND (0.00066) | 0.0015  | 300m |
|      |            | ND (0.00068) | 0.00090 | 500m |

|      |            |              |        |      |
|------|------------|--------------|--------|------|
| M-19 | 2013/05/17 | 0.0010       | 0.0028 | 1m   |
|      |            | ND (0.00061) | 0.0014 | 100m |
|      |            | ND (0.00059) | 0.0017 | 200m |
|      |            | ND (0.00069) | 0.0014 | 300m |
|      |            | ND (0.00059) | 0.0010 | 500m |

|      |            |              |         |      |
|------|------------|--------------|---------|------|
| M-20 | 2013/05/18 | ND (0.00082) | 0.0025  | 1m   |
|      |            | ND (0.00095) | 0.0019  | 100m |
|      |            | ND (0.00092) | 0.0018  | 200m |
|      |            | ND (0.00096) | 0.0014  | 300m |
|      |            | ND (0.00084) | 0.00080 | 500m |

|      |            |              |        |      |
|------|------------|--------------|--------|------|
| M-25 | 2013/05/14 | ND (0.0010)  | 0.0016 | 1m   |
|      |            | ND (0.00092) | 0.0022 | 100m |
|      |            | 0.0020       | 0.0044 | 200m |
|      |            | ND (0.00094) | 0.0031 | 300m |
|      |            | ND (0.00087) | 0.0012 | 500m |



|      |            |              |         |      |
|------|------------|--------------|---------|------|
| M-11 | 2013/05/16 | ND (0.00096) | 0.0025  | 1m   |
|      |            | ND (0.00095) | 0.0023  | 100m |
|      |            | 0.0010       | 0.0018  | 200m |
|      |            | ND (0.00092) | 0.00095 | 300m |
|      |            | ND (0.00097) | 0.00068 | 500m |

|      |            |              |         |      |
|------|------------|--------------|---------|------|
| M-15 | 2013/05/16 | ND (0.00095) | 0.0023  | 1m   |
|      |            | ND (0.00088) | 0.0018  | 100m |
|      |            | ND (0.00097) | 0.0020  | 200m |
|      |            | ND (0.00096) | 0.0016  | 300m |
|      |            | ND (0.00085) | 0.00084 | 500m |

|      |            |              |        |      |
|------|------------|--------------|--------|------|
| M-21 | 2013/05/15 | ND (0.00068) | 0.0019 | 1m   |
|      |            | ND (0.00069) | 0.0026 | 100m |
|      |            | 0.0026       | 0.0056 | 200m |
|      |            | 0.0013       | 0.0043 | 300m |
|      |            | ND (0.00064) | 0.0015 | 500m |

|      |            |              |        |      |
|------|------------|--------------|--------|------|
| M-26 | 2013/05/14 | ND (0.00069) | 0.0020 | 1m   |
|      |            | ND (0.00065) | 0.0025 | 100m |
|      |            | 0.0011       | 0.0036 | 200m |
|      |            | 0.0011       | 0.0034 | 300m |
|      |            | ND (0.00085) | 0.0015 | 500m |

|      |            |              |        |      |
|------|------------|--------------|--------|------|
| M-27 | 2013/05/15 | ND (0.00094) | 0.0022 | 1m   |
|      |            | ND (0.00096) | 0.0030 | 100m |
|      |            | 0.0012       | 0.0044 | 200m |
|      |            | ND (0.0010)  | 0.0027 | 300m |
|      |            | ND (0.00089) | 0.0021 | 500m |