

Sea Area Monitoring

May 25, 2023

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 |
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|
|----------------|---------------|--------|--------|---------------|-----|-------|----------------|--------|---------------|

Seawater radioactivity (Bq/L):

* "< XX " means that radioactivity concentration is lower than the detection limit XX.

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

| | | | | | | | | | |
|-------|------------|-----------|--------|--------------------|--------|----------|-------|-------------|-------------|
| T-1 | 2023/2/6 | < 0.0017 | 0.051 | 11 ^{*1} | 0.55 | 0.0062 | < 1.7 | | |
| | 2023/3/6 | 0.0015 | 0.070 | 11 ^{*1} | < 0.31 | 0.010 | < 2.2 | | |
| | 2023/4/3 | < 0.0013 | 0.041 | 9.5 ^{*1} | < 0.30 | 0.0059 | < 2.2 | < 0.0000047 | < 0.0000047 |
| M-101 | 2022/2/3 | < 0.00037 | 0.0055 | | | | | | |
| | 2023/3/3 | < 0.00048 | 0.015 | | | | | | |
| | 2023/4/21 | < 0.00046 | 0.011 | | | | | | |
| F-P03 | 2022/10/21 | < 0.003 | 0.10 | 0.02 ^{*2} | 0.55 | 0.015 | | < 0.000007 | 0.000009 |
| | 2022/11/8 | < 0.003 | 0.13 | 0.02 ^{*2} | 0.04 | 0.0006 | | < 0.000008 | 0.000010 |
| | 2022/12/9 | < 0.003 | 0.012 | 0.05 ^{*2} | 0.04 | 0.0006 | | < 0.000008 | 0.000010 |
| F-P01 | 2022/10/21 | < 0.003 | 0.013 | 0.01 ^{*2} | < 0.38 | < 0.0005 | | < 0.000009 | < 0.000009 |
| | 2022/11/8 | < 0.003 | 0.007 | 0.02 ^{*2} | 0.56 | 0.0051 | | < 0.000006 | 0.000014 |
| | 2022/12/9 | < 0.003 | 0.0038 | 0.05 ^{*2} | < 0.35 | 0.0014 | | < 0.000007 | < 0.000008 |
| T-2 | 2023/2/6 | < 0.0012 | 0.0080 | 12 ^{*1} | < 0.30 | 0.0010 | < 1.7 | | |
| | 2023/3/6 | < 0.0012 | 0.011 | 9.3 ^{*1} | < 0.31 | 0.00079 | < 2.2 | | |
| | 2023/4/3 | < 0.0012 | 0.014 | 13 ^{*1} | < 0.30 | 0.00090 | < 2.2 | < 0.0000048 | < 0.0000048 |

Fukushima
Daichi-NPS

0 0.5 1km

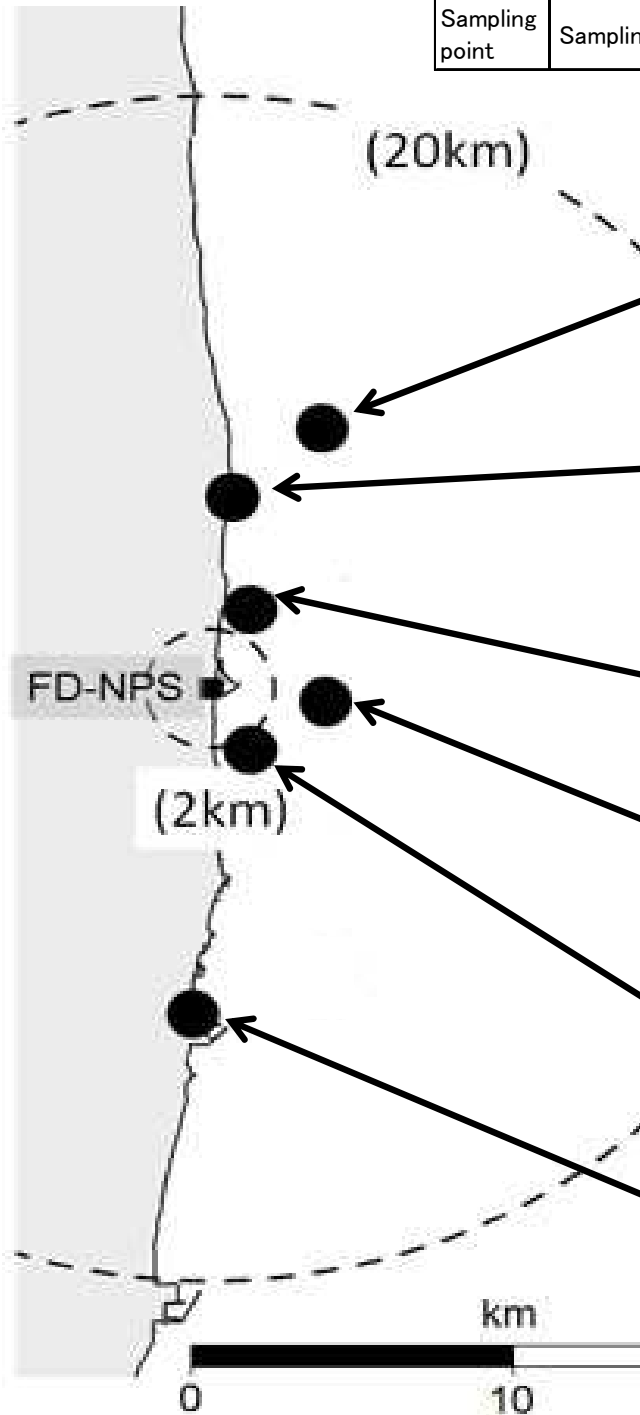
Most recent radioactivity data of sea area between 2-20km from the NPS

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

Seawater radioactivity (Bq/L):

* "< XX " means that radioactivity concentration is lower than the detection limit XX.

* Gross β : including K-40



| | | | | | | | | | | |
|-------|-----------|-----------|--------|------|--------|---------|-------|-------------|-------------|------|
| T-D1 | 2023/2/3 | < 0.0011 | 0.0037 | 14 | < 0.36 | 0.0016 | < 1.9 | | | S |
| | 2023/3/1 | < 0.0013 | 0.0029 | < 13 | < 0.35 | 0.00090 | < 2.2 | | | S |
| | 2023/4/5 | < 0.0011 | 0.0031 | 14 | < 0.34 | 0.00091 | < 2.3 | < 0.0000055 | < 0.0000042 | S |
| T-6 | 2023/2/7 | < 0.0012 | 0.0074 | < 13 | < 0.36 | | | | | S |
| | 2023/3/7 | < 0.0012 | 0.0096 | 13 | < 0.36 | | | | | S |
| | 2023/4/4 | < 0.0013 | 0.013 | < 14 | < 0.34 | | | | | S |
| M-103 | 2022/2/3 | < 0.00043 | 0.0040 | | | | | | | 0.5m |
| | 2023/3/3 | < 0.00046 | 0.0052 | | | | | | | 0.5m |
| | 2023/4/21 | < 0.00046 | 0.0056 | | | | | | | 0.5m |
| T-D5 | 2023/2/3 | < 0.0013 | 0.0030 | 15 | < 0.36 | 0.0016 | < 1.9 | | | S |
| | 2023/3/1 | < 0.0013 | 0.0038 | < 13 | < 0.35 | 0.00088 | < 2.2 | | | S |
| | 2023/4/5 | < 0.0013 | 0.0078 | < 12 | < 0.34 | 0.0011 | < 2.3 | < 0.0000079 | < 0.0000072 | S |
| M-104 | 2022/2/3 | < 0.00033 | 0.0027 | | | | | | | 0.5m |
| | 2023/3/3 | < 0.00041 | 0.0018 | | | | | | | 0.5m |
| | 2023/4/21 | < 0.00046 | 0.0071 | | | | | | | 0.5m |
| T-3 | 2023/2/7 | < 0.0014 | 0.0067 | < 13 | < 0.36 | | | | | S |
| | 2023/3/7 | < 0.0012 | 0.0071 | < 12 | < 0.36 | | | | | S |
| | 2023/4/4 | < 0.0011 | 0.021 | 17 | < 0.34 | | | | | S |

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

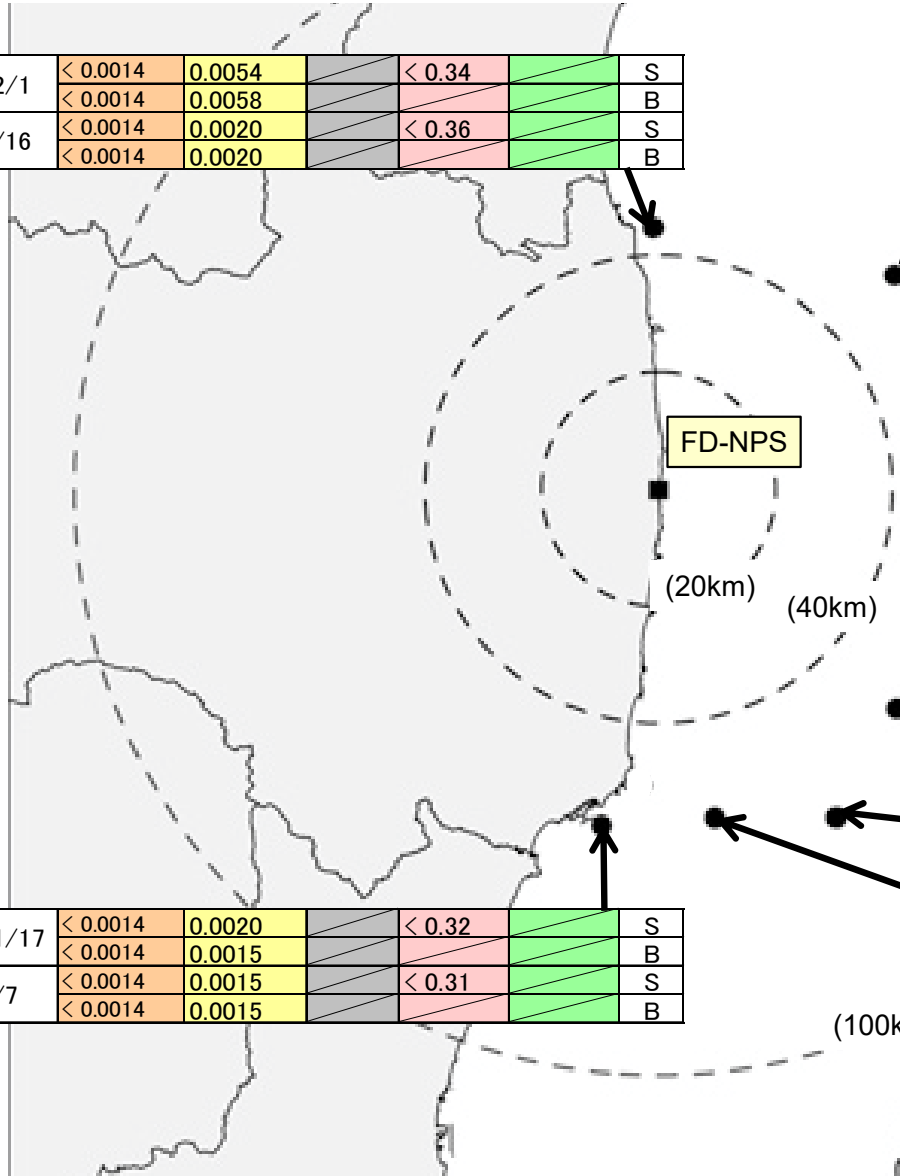
| Sampling point | Sampling Date | Cs-134 | Cs-137 | Gross β | H-3 | Sr-90 | S/B |
|----------------|---------------|--------|--------|---------------|-----|-------|--|
| | | | | | | | S:2m below sea level B:2-3m above sea bottom |
| | | | | | | | Depth(m) from sea level |

Seawater radioactivity (Bq/L):

* "< XX " means that radioactivity concentration is lower than the detection limit XX.

* Gross β : excluding K-40

| T-22 | 2022/12/1 | < 0.0014 | 0.0054 | | < 0.34 | | S |
|------|-----------|----------|--------|--|--------|--|---|
| | | < 0.0014 | 0.0058 | | | | B |
| | 2023/1/16 | < 0.0014 | 0.0020 | | < 0.36 | | S |
| | | < 0.0014 | 0.0020 | | | | B |



| M-C3 | 2023/1/12 | < 0.000076 | 0.0015 | 0.028 | 0.041 | 0.00077 | 1m |
|------|-----------|------------|--------|-------|-------|---------|------|
| | | < 0.000069 | 0.0016 | | | | 50m |
| | | < 0.000074 | 0.0014 | | | | 120m |

| M-D3 | 2023/1/9 | < 0.000071 | 0.0014 | 0.032 | 0.041 | 0.00095 | 1m |
|------|----------|------------|--------|-------|-------|---------|------|
| | | < 0.000059 | 0.0016 | | | | 100m |
| | | < 0.000075 | 0.0015 | | | | 203m |

| M-E3 | 2023/1/9 | < 0.000074 | 0.0015 | 0.030 | 0.034 | 0.00080 | 1m |
|------|----------|------------|--------|-------|-------|---------|------|
| | | < 0.000073 | 0.0016 | | | | 100m |
| | | < 0.000065 | 0.0015 | | | | 210m |

| M-F3 | 2023/1/8 | < 0.000074 | 0.0014 | 0.031 | 0.047 | 0.0011 | 1m |
|------|----------|------------|--------|-------|-------|--------|------|
| | | < 0.000063 | 0.0016 | | | | 100m |
| | | < 0.000061 | 0.0015 | | | | 220m |

| M-G3 | 2023/1/8 | < 0.000073 | 0.0014 | 0.031 | 0.041 | 0.00091 | 1m |
|------|----------|------------|--------|-------|-------|---------|------|
| | | < 0.000077 | 0.0017 | | | | 100m |
| | | < 0.000057 | 0.0015 | | | | 193m |

| M-H3 | 2023/1/8 | < 0.000071 | 0.0015 | 0.032 | 0.036 | 0.0011 | 1m |
|------|----------|------------|--------|-------|-------|--------|------|
| | | < 0.000082 | 0.0017 | | | | 100m |
| | | < 0.000070 | 0.0015 | | | | 214m |

| T-18 | 2022/11/17 | < 0.0014 | 0.0020 | | < 0.32 | | S |
|------|------------|----------|--------|--|--------|--|---|
| | | < 0.0014 | 0.0015 | | | | B |
| | 2023/2/7 | < 0.0014 | 0.0015 | | < 0.31 | | S |
| | | < 0.0014 | 0.0015 | | | | B |

| M-H1 | 2023/1/11 | < 0.000055 | 0.0015 | | 0.055 | | 1m |
|------|-----------|------------|--------|--|-------|--|------|
| | | < 0.000070 | 0.0016 | | | | 120m |

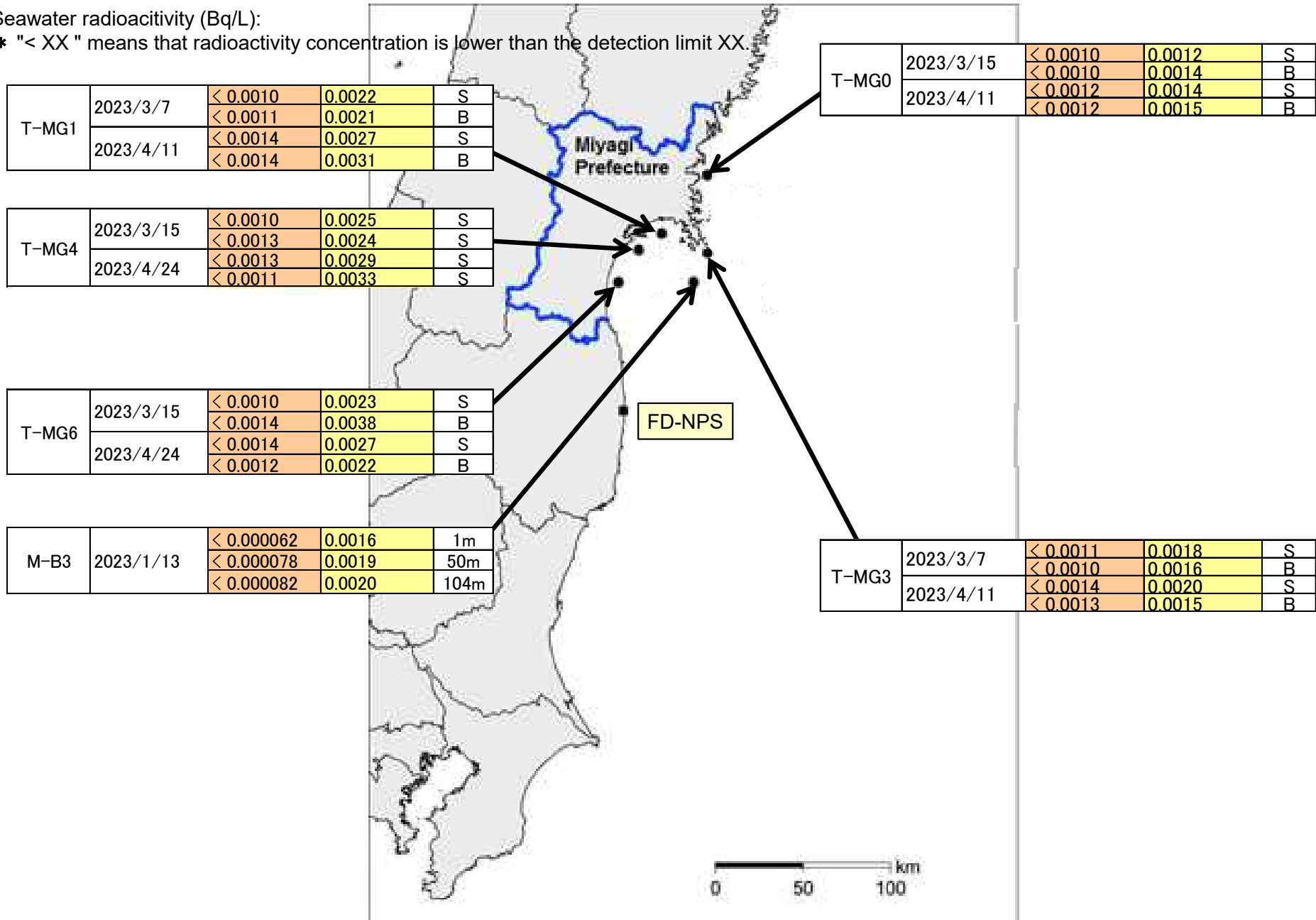


Most recent radioactivity data of sea area along and off the coast of Miyagi Prefecture

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

Seawater radioactivity (Bq/L):

* "< XX " means that radioactivity concentration is lower than the detection limit XX.



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 | S/B | S:2m below sea level Depth(m) from sea level | B:2-3m above sea bottom |
|----------------|---------------|--------|--------|-----|---|-------------------------|
|----------------|---------------|--------|--------|-----|---|-------------------------|

Ibaraki Pref. and Chiba Pref.

Seawater radioactivity (Bq/L):

* "< XX" means that radioactivity concentration is lower than the detection limit XX.

| T-A | 2023/3/17 | < 0.92 | < 1.1 | S |
|-----|-----------|--------|-------|---|
| | | < 0.75 | < 1.2 | B |
| | 2023/4/28 | < 0.92 | < 1.1 | S |
| | | < 0.79 | < 1.1 | B |

| T-B | 2023/3/16 | < 0.87 | < 1.1 | S |
|-----|-----------|--------|--------|---|
| | | < 0.94 | < 1.1 | B |
| | 2023/4/24 | < 0.98 | < 0.99 | S |
| | | < 0.91 | < 1.1 | B |

| T-C | 2023/3/15 | < 1.0 | < 1.1 | S |
|-----|-----------|--------|-------|---|
| | | < 0.87 | < 1.0 | B |
| | 2023/4/28 | < 0.81 | < 1.0 | S |
| | | < 0.83 | < 1.2 | B |

| T-D | 2023/3/16 | < 0.92 | < 1.1 | S |
|-----|-----------|--------|-------|---|
| | | < 0.87 | < 1.1 | B |
| | 2023/4/27 | < 1.1 | < 1.1 | S |
| | | < 0.64 | < 1.2 | B |

| M-M1 | 2003/1/18 | < 0.000069 | 0.0015 | 1m |
|------|-----------|------------|--------|------|
| | | < 0.000079 | 0.0016 | 103m |

| M-I3 | 2023/1/11 | < 0.000059 | 0.0014 | 1m |
|------|-----------|------------|--------|------|
| | | < 0.000071 | 0.0016 | 100m |
| | | < 0.000071 | 0.0017 | 166m |

| M-J3 | 2023/1/22 | < 0.000070 | 0.0015 | 1m |
|------|-----------|------------|---------|------|
| | | < 0.000071 | 0.0015 | 100m |
| | | < 0.000057 | 0.00075 | 535m |

| M-IB4 | 2023/1/22 | < 0.000053 | 0.0015 | 1m |
|-------|-----------|------------|--------|------|
| | | < 0.000073 | 0.0016 | 109m |

| T-E | 2023/3/15 | < 1.0 | < 1.2 | S |
|-----|-----------|--------|--------|---|
| | | < 0.64 | < 1.0 | B |
| | 2023/4/24 | < 0.75 | < 0.99 | S |
| | | < 0.95 | < 1.1 | B |

| M-L1 | 2023/1/18 | < 0.000055 | 0.0015 | 1m |
|------|-----------|------------|--------|-----|
| | | < 0.000058 | 0.0015 | 36m |

