

Water quality:

Mikata-ko: freshwater lake

[west] pH8.5(7.4~9.3)(2003), DO 10(8.9~13)mg/l(2003), COD 5.4 (2.9 ~ 10) mg/l (2003), -N 0.82 (0.40~1.4)mg/l (2003), T-P 0.055(0.029~0.088) mg/l (2003), Chl-a 36(15~110)µg/L(2003),SS 10(3~21) mg/l (2003), NH4- N 0.02(<0.01~0.02) mg/l (2003), NO2-N <0.01mg/l (2003), NO3-N 0.05(<0.01~0.08) mg/l (2003)

[east] pH8.4(7.5~9.2)(2003), DO 10(8.8~11)mg/l(2003), COD 5.1 (2.8 ~ 8.2) mg/l (2003), T-N 0.74 (0.43~1.0)mg/l(2003), T-P 0.051(0.029~0.072) mg/l (2003), Chl-a 37(14~98)µg/L(2003), SS 10(5~16) mg/l (2003), NH4- N 0.02(<0.01~0.07) mg/l (2003), NO2-N 0.01(<0.01~0.01)mg/l (2003), NO3-N 0.17(<0.01~0.42) mg/l (2003)

[whole area] EC 557(493~606)µs/cm(1991), alkalinity: 0.6meq/L(1991), Cl- 127(116~147)ppm(1991), PO4-P 0.016(0.014~0.018)ppm(1991)

Suigetsu-ko: semi-freshwater lake

[north] pH7.9(7.1~9.2)(2003), DO 7.7(3.8~12)mg/l(2003), COD 4.1 (3.2 ~ 5.1) mg/l (2003), T-N 0.56 (0.32~0.76) mg/l (2003), T-P 0.039(0.023~0.051) mg/l (2003), Chl-a 21(5.5~56)µg/L(2003), SS 4(2~9) mg/l (2003), NH4-N 0.03(0.02~0.04) mg/l (2003), NO2-N <0.01mg/l (2003), NO3-N 0.04(<0.01~0.06) mg/l (2003)

[south] pH8.0(7.0~9.2)(2003), DO 7.6(3.0~12)mg/l(2003), COD 4.0 (3.1 ~ 4.5) mg/l (2003), T-N 0.60 (0.33~ 0.85) mg/l (2003), T-P 0.042(0.022~0.067) mg/l (2003), Chl-a 18(5.7~42)µg/L(2003), SS 3(<1~7) mg/l (2003), NH4-N 0.07(0.01~0.22) mg/l (2003), NO2-N <0.01mg/l (2003), NO3-N 0.06(<0.01~0.17) mg/l (2003)

[whole area] EC 15.4(2.7 ~ 23.6)ms/cm(1991), alkalinity: 9.0(0.6 ~ 20.3)meq/L(1991), Cl- 1237(818 ~ 2070)ppm(1991), PO4-P <0.001ppm(1991)

Suga-ko: semi-freshwater lake

pH8.0(7.1~9.4)(2003), DO 8.1(3.1~13)mg/l (2003), COD 5.2(4.0~9.3)mg/l (2003), T-N 0.62(0.32~0.97) mg/l (2003), T-P 0.051(0.021~0.12)mg/l (2003), Chl-a 29(4.8~100)µg/L(1991), SS 5(2~14) mg/l (2003), EC 9.1(2.6~ 18.3)ms/cm(1991), alkalinity 2.0(0.5~4.7)meq/L(1991), NH4-N <0.01ppm(1991), Cl- 745ppm(1991), NO2-N <0.01ppm(1991), NO3-N <0.01ppm(1991), PO4-P <0.001ppm(1991)

Kuguji-ko: semi-freshwater lake

[north] pH8.2(7.9~8.6)(2003), DO 9.0(7.2~11)mg/l(2003), COD 3.7 (3.0 ~4.6) mg/l (2003), T-N 0.55 (0.40~0.73) mg/l (2003), T-P 0.036(0.029~0.041) mg/l (2003), Chl-a 14(3.3~32)µg/L(2003), SS 5(1~10) mg/l (2003)

[south] pH8.2(7.8~8.6)(2003), DO 8.6(6.2~11)mg/l(2003), COD 3.7 (2.9 ~4.4) mg/l (2003), T-N 0.58 (0.41~ 0.84) mg/l (2003), T-P 0.036(0.028~0.043) mg/l (2003), Chl-a 18(3.4~42)µg/L(2003), SS 6(<1~14) mg/l (2003), NH4-N 0.07mg/l (2003), NO2-N <0.01mg/l (2003), NO3-N <0.01mg/l (2003)

[whole area] EC 14.7(8.6~26.8)ms/cm(1991), alkalinity: 0.9(0.7~1.4)meq/L(1991), Cl- 5047(2790~9040)ppm(1991), P04-P <0.001~0.002ppm (1991)

Hiruga-ko: salt water lake

[north] pH8.1(8.0~8.1)(2003), DO 7.7(6.4~9.3)mg/l(2003), COD 1.9 (1.6 ~2.3) mg/l (2003), T-N 0.23 (0.15~0.34) mg/l (2003), T-P 0.029(0.017~0.051) mg/l (2003), Chl-a 4.2(1.1~6.0)µg/L(2003), SS 2(<1~4) mg/l (2003)

[south] pH8.1(8.0~8.1)(2003), DO 7.6(6.6~9.3)mg/l(2003), COD 1.9 (0.9 ~3.1) mg/l (2003), T-N 0.20 (0.13~ 0.32) mg/l (2003), T-P 0.024(0.015~0.052) mg/l (2003), Chl-a 2.9(0.3~5.8)µg/L(2003), SS 2(<1~4) mg/l (2003)

[whole area] EC 46.5(44.5~47.1)ms/cm(1991), alkalinity: 2.9(2.0~4.8)meq/L(1991), Cl- 16300ppm(1991), NH4- N <0.01~0.03ppm(1991), NO2-N 0.01ppm(1991), NO3-N <0.01ppm(1991), P04-P 0.03ppm(1991)

Water depth:

Mikata-ko: 1.3 m on average, 5.8 m at maximum

Suigetsu-ko: 34.0 m at maximum

Suga-ko: 13.0 m at maximum

Kuguji-ko: 1.8 m on average, 2.5 m at maximum

Hiruga-ko: 14.3 m on average, 38.5 m at maximum