

地下水位
地盤沈下

観測記録 XII

(平成元年)
(札幌市北部～石狩地区)

北海道立地下資源調査所
平成2年3月 (1990)

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(札幌市北部～石狩地区)

調 査 員
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北海道立地下資源調査所

平成2年3月(1990)

地下水位 観測記録既刊
地盤沈下

| | | | | |
|------|-------------|--------------|------|------------|
| I | 昭和46年～昭和50年 | 地下水位 地盤沈下 | 観測記録 | 昭和51年12月発行 |
| II | 昭和51年～昭和52年 | 〃 | 〃 | 昭和53年 9月発行 |
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| VIII | 昭和60年 | 〃 | 〃 | 昭和61年 3月発行 |
| IX | 昭和61年 | 〃 | 〃 | 昭和62年 3月発行 |
| X | 昭和62年 | 〃 | 〃 | 昭和63年 3月発行 |
| XI | 昭和63年 | 〃 | 〃 | 平成元年 3月発行 |

は し が き

地下水は貴重な水資源であり、社会の発展とともにその利用度は高まってきている。しかし、地下水も有限であり、過大な地下水揚水は地下水位の低下を招き、その結果、地盤沈下や地下水質の劣化などの障害が発生する危険性をはらんでいる。

地盤沈下はその進行が遅く、各種の障害が発生したり、人間の視覚にとらえられるようになった段階では、沈下現象は相当進行した状況ということがいえる。従って地盤沈下を未然に防止するには、早い時期からの地盤沈下対策が重要となる。

地下資源調査所では、昭和45年、石狩平野地域の地盤沈下に関する研究を開始したが、以来、札幌市、北海道などの行政機関でも取りあげられ、現在、各機関の緊密な連携のもとで、石狩平野地域の地盤沈下防止に取り組んでいる。

この「観測記録」は、昭和51年12月刊行の「観測記録」より引き続くもので、平成元年について取りまとめたものである。

本資料の多方面での活用を期待する次第である。

平成2年3月

北海道立地下資源調査所

目 次

| | |
|--------------|----|
| 観測井位置図 | 1 |
| 観測井諸元 | 2 |
| 観測井柱状図 | 5 |
| 記録のとりまとめ方法 | 8 |
| 観測所精密水準測量値表 | 10 |
| 観測井水位・沈下量表 | |
| 中島公園観測所 | 13 |
| 北発寒観測所 A水位 | 14 |
| " B水位 | 14 |
| " A沈下 | 15 |
| 屯田観測所 A水位 | 16 |
| " B水位 | 16 |
| " A沈下 | 17 |
| 樽川観測所 A水位 | 18 |
| " B水位 | 18 |
| " A沈下 | 19 |
| 分部越観測所 A水位 | 20 |
| 石狩No.1 観測所 | 21 |
| 山口観測所 A水位 | 22 |
| " B水位 | 22 |
| " C水位 | 23 |
| " A沈下 | 24 |
| " B沈下 | 24 |
| 研究庁舎観測所 | 25 |
| 花畔観測所 A水位 | 26 |
| " B水位 | 26 |
| " A沈下 | 27 |
| " B沈下 | 27 |
| 石狩工水No.2 観測所 | 28 |

観測井水位・沈下量変化図

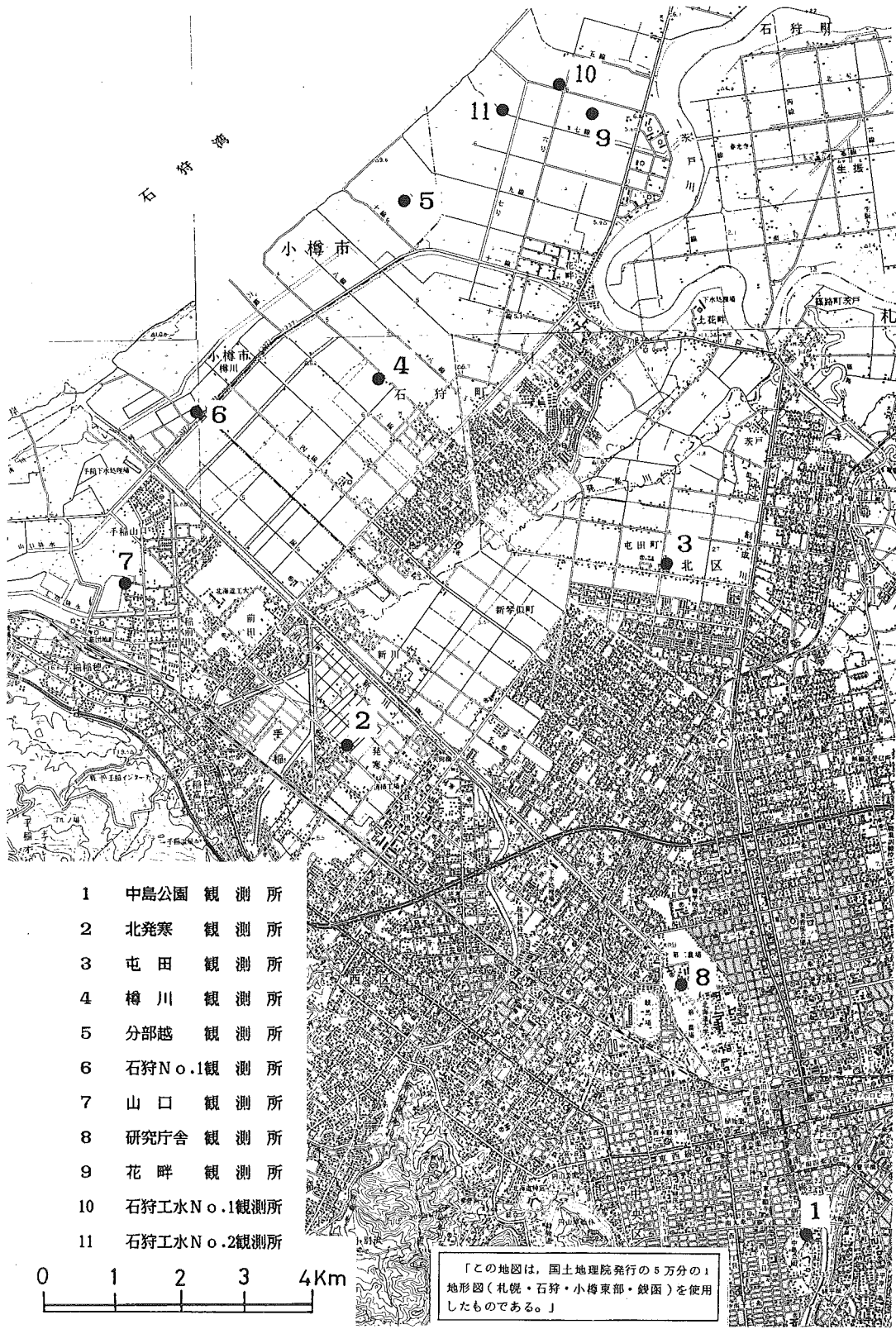
| | | |
|--------------|-------|----|
| 中島公園観測所 | ..... | 31 |
| 北発寒観測所 A水位 | ..... | 32 |
| " B水位 | ..... | 32 |
| " A沈下 | ..... | 32 |
| 屯田観測所 A水位 | ..... | 33 |
| " B水位 | ..... | 33 |
| " A沈下 | ..... | 33 |
| 樽川観測所 A水位 | ..... | 34 |
| " B水位 | ..... | 34 |
| " A沈下 | ..... | 34 |
| 分部越観測所 A水位 | ..... | 35 |
| 石狩No.1 観測所 | ..... | 35 |
| 山口観測所 A水位 | ..... | 36 |
| " B水位 | ..... | 36 |
| " C水位 | ..... | 36 |
| " A沈下 | ..... | 37 |
| " B沈下 | ..... | 37 |
| 研究庁舎観測所 | ..... | 37 |
| 花畔観測所 A水位 | ..... | 38 |
| " B水位 | ..... | 38 |
| " A沈下 | ..... | 39 |
| " B沈下 | ..... | 39 |
| 石狩工水No.2 観測所 | ..... | 39 |

観測井水位経年変化図

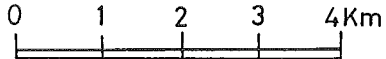
| | | |
|--|-------|----|
| A (中島公園・北発寒B・分部越B・山口C・花畔B・石狩工水No.2) | ..... | 43 |
| B (屯田A・樽川A・山口A・研究庁舎・花畔A) | ..... | 45 |
| C (北発寒A・屯田B・樽川B・分部越A・石狩No.1・石狩No.2・ 山口B・石狩工水No.1) | ..... | 47 |

観測井地盤沈下経年変化図

| | | |
|--------------------------------|-------|----|
| (北発寒A・屯田A・樽川A・山口A・山口B・花畔A・花畔B) | | 49 |
|--------------------------------|-------|----|



- 1 中島公園 観測所
- 2 北発寒 観測所
- 3 屯田 観測所
- 4 樽川 観測所
- 5 分部越 観測所
- 6 石狩N○.1観測所
- 7 山口 観測所
- 8 研究庁舎 観測所
- 9 花畔 観測所
- 10 石狩工水N○.1観測所
- 11 石狩工水N○.2観測所



「この地図は、国土地理院発行の5万分の1地形図（札幌・石狩・小樽東部・銭函）を使用したものである。」

観 測 井

| | 中島公園 観測所 | 北 発 寒 観 測 所 | | 屯 田 観 測 所 | | 樽 川 観 測 所 | |
|---------------------|----------------|-----------------------------------|-----------------------------------|---|---------|--|-----------|
| | | A | B | A | B | A | B |
| 所 在 地 | 札幌市中央区南11条西3丁目 | 札幌市手稲区新発寒5条4丁目1145 | | 札幌市北区屯田町637 | | 石狩町新港西1丁目502 | |
| 緯 度 | N 43°02' 35" | N 43°06' 43" | | N 43°08' 07" | | N 43°09' 30" | |
| 経 度 | E 141°21' 35" | E 141°16' 42" | | E 141°20' 07" | | E 141°17' 22" | |
| 所 属 | 北 海 道 立 地 | | | | | | |
| 観測開始年月日及び月平均水位標高(m) | S 37.12.5 | S 46.1.1 | S 52.4.20 | S 47.9.1 | | S 50.1.1 | |
| | 20.39 | 1.917 | 4.362 | -0.610 | 0.946 | -0.372 | 0.109 |
| 観測目的 | 不圧地下水 | 被圧地下水 地盤沈下 | 不圧地下水 | 被圧地下水 地盤沈下 | 被圧地下水 | 被圧地下水 地盤沈下 | 被圧地下水 |
| 口 径(mm) | 150 | 150 | 40 | 200 | 100 | 100 | 100 |
| 深度(m)※ | 30.2 | 130 | 6 | 82.5 | 130 | 87 | 200 |
| ストレーナー深度(m)※ | 17.2-30.2 | 105-110.5 | 5.6-5.9 | 65.5-71 | 111-123 | 59.5-81.5 | 137.5-154 |
| 形 式 | | チューピング式(単管) | | チューピング スライド式 (二重管) | | チューピング式(単管) | |
| 地盤標高 | | 4.6212 (精密測量水準点 地-1 S 48.10.1 測量) | | 3.9785 (精密測量水準点 札幌市 73-04 S 48.10.1 測量) | | 5.6694 (精密測量水準点 北海道 H78-09 S 53.10.1 測量) | |
| 水位観測基準面標高(m) | 29.741 | 6.222 | 5.530 (S46.1.1~ S51.8.23) | 4.939 | | 7.124 | 6.554 |
| 備 考 | | | 5.875 (S51.11.16~ S57.5.14) | | | | |
| | | | 5.682 (S57.5.24~) | | | | |

※ いずれも地表からの深度

諸 元 — 1

| 分部越観測所 | | 山 口 観 測 所 | | | 研究庁舎 観 測 所 | 花 畔 観 測 所 | |
|---------------------------------|---|---------------------------------|---|---|---------------------------------|---------------------------------|---|
| A | B | A | B | C | | A | B |
| 小樽市 銭函5丁目 | | 札幌市手稲区 曙5条4丁目94-1 | | | 札幌市北区 北19条 西12丁目 | 石狩町 新港南3丁目703-6 | |
| N 43° 11' 08" E 141° 17' 21" | | N 43° 09' 04" E 141° 14' 07" | | | N 43° 04' 44" E 141° 20' 12" | N 43° 11' 45" E 141° 18' 27" | |

下 資 源 調 査 所

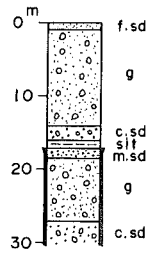
| S 49. 1. 1 | | S51.10. 9 | S51. 9.21 | S51.10. 6 | S 54. 1.16 | S56. 5.15 | S56. 3. 1 |
|----------------------|---------------------|-------------------------------------|--------------------------------|-----------|---|--|-----------------|
| 1.542 | 3.996 | 1.337 | -2.126 | 3.562 | 3.290 | 0.515 | 2.063 |
| 被圧地下水 | 不圧地下水 | 被圧地下水 地盤沈下 | 被圧地下水 地盤沈下 | 不圧地下水 | 被圧地下水 | 被圧地下水 地盤沈下 | 不圧地下水 地盤沈下 |
| 150 | 100 | 125 | 200 | 40 | 250 | 150 | 100 |
| 200 | 5 | 35 | 146.5 | 6 | 120 | 58.7 | 12.0 |
| 175-180.5 186-197 | 4-5 | 18.4-23.94 | 111.51-117.01 122.51-128.01 | 5.6-5.9 | 54-65 76-87 98-103.5 | 42.2-53.2 | 9.0-11.0 |
| | | チューピング 式(単管) | チューピング スライド式 (二重管) | | | チューピング 式(単管) | チューピング 式(単管) |
| | | 4.2938(精密測量水準点 地-4 S52.10. 1 測量) | | | 11.8621(精密測 量水準点 札幌 市 78-03 S 53.10. 1 測量) | 4.7214(精密測量水 準点 地-5 S56. 10. 1 測量) | |
| 5.640 | | 6.400 | 6.329 | 5.614 | 10.280 | 6.184 | 6.191 |
| | S 55. 5.28 で観測休止 | | | | | | |

観測井諸元 - 2

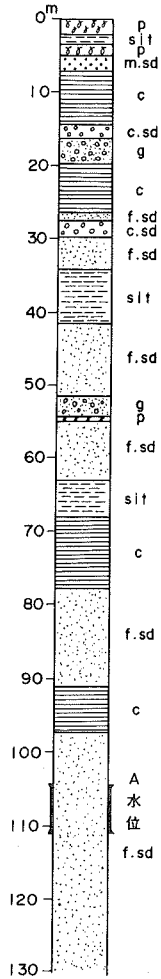
| | 石狩No.1 観測所 | 石狩No.2 観測所 | 石狩工水 No.1観測所 | 石狩工水 No.2観測所 |
|---------------------------------|---------------|---------------------|--------------------------|-------------------|
| 所在地 | 小樽市 銭函4丁目 | 石狩町 新港中央 3丁目 | 石狩町 新港中央 3丁目 | 石狩町 新港南 3丁目 |
| 緯度 | N 43°09'24" | N 43°11'59" | N 43°11'59" | N 43°11'49" |
| 経度 | E141°15'03" | E141°19'07" | E141°19'07" | E141°18'27" |
| 所属 | 石 狩 開 発 (株) | | | |
| 観測開始 年月日及び 月平均水位 標高(m) | S 48. 7.20 | | S55. 1. 1 | S57. 4. 6 |
| | 1.120 | 1.550 | -1.449 | 4.895 |
| 観測目的 | 被圧地下水 | 被圧地下水 | 被圧地下水 | 不圧地下水 |
| 口径(mm) | 100 | 50 | 200 | 40 |
| 深度(m)※ | 200 | 200 | 251 | 3.5 |
| ストレーナー 深度(m)※ | 145-155 | 152-172 | 149.2-172 177.5-181.3 | 2.9-3.1 |
| 形式 | | | | |
| 地盤標高 | | | | |
| 水位観測基 準面標高(m) | 6.750 | 5.700 | 5.761 | 5.874 |
| 備考 | | S 52.10.26 で観測終了 | S 59. 9.18 で観測終了 | |

※ いずれも地表からの深度

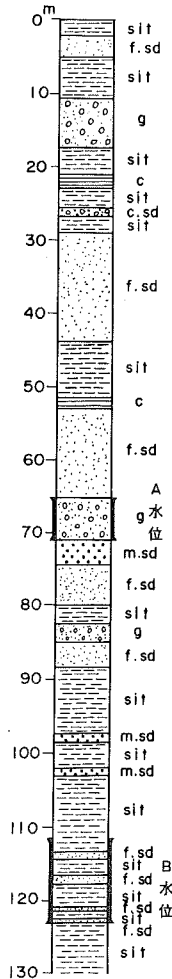
中島公園



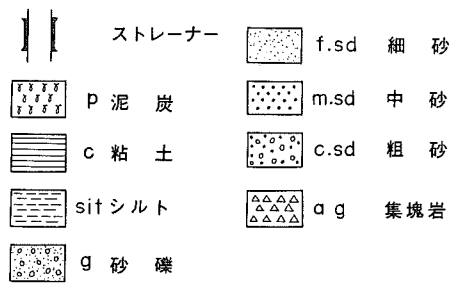
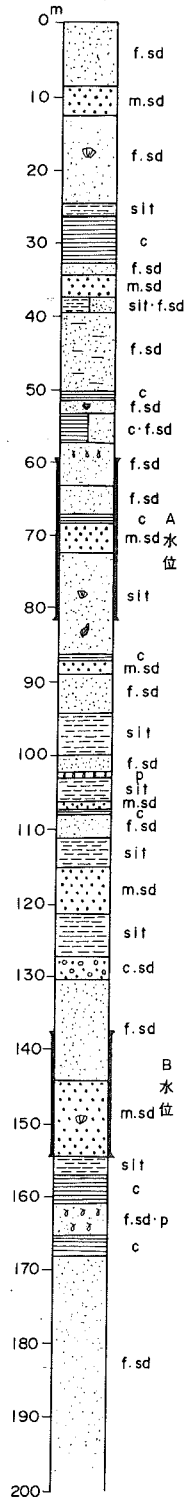
北発寒



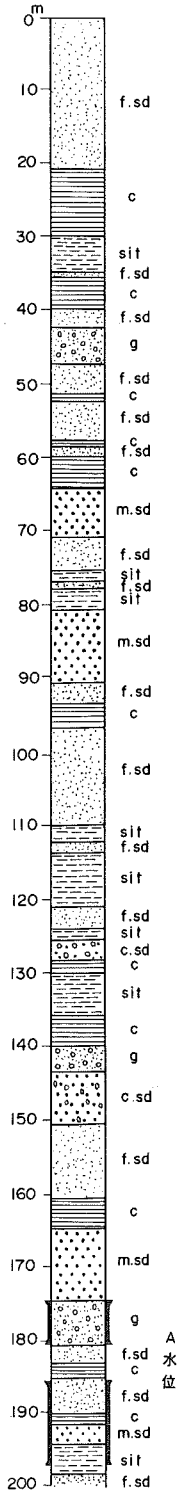
屯田



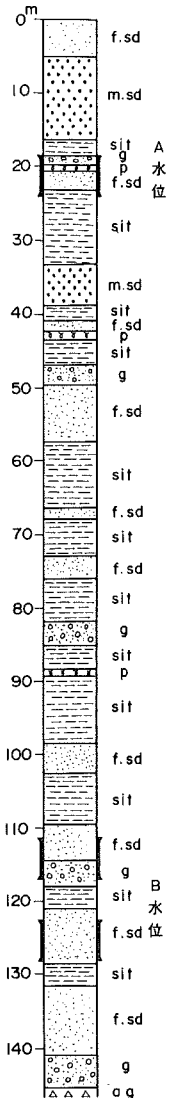
樽川



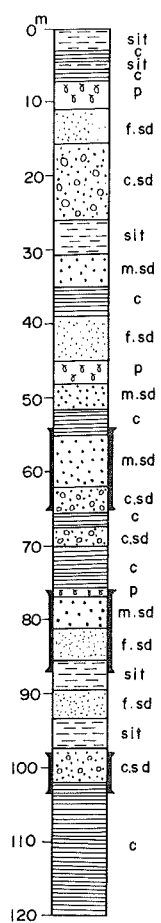
分部越



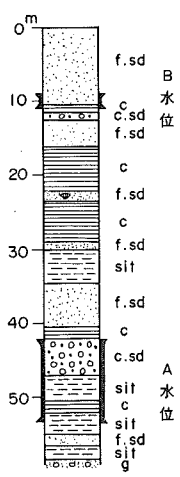
山口



研究庁舎



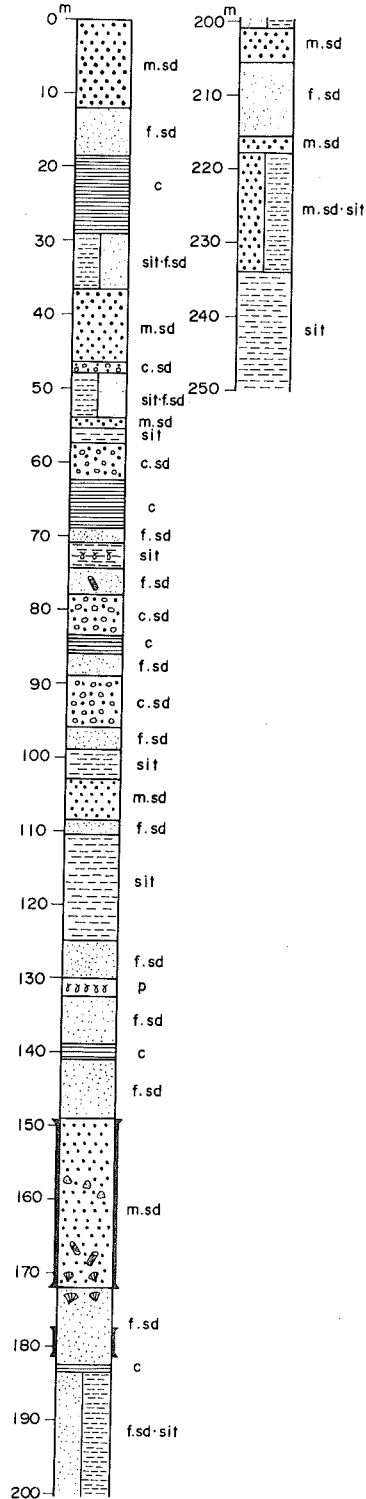
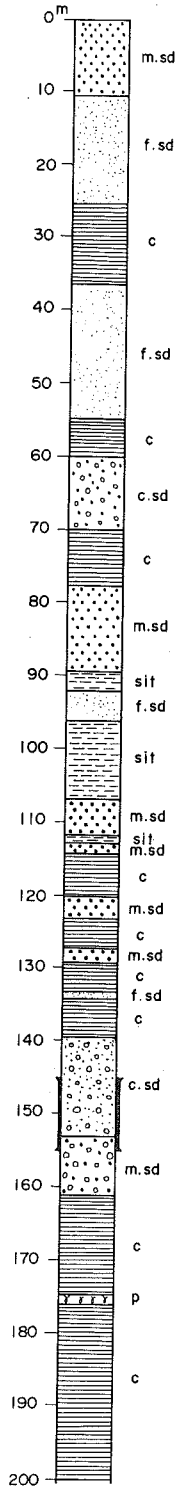
花畔



| | | | |
|--|---------|--|---------|
| | ストレーナー | | f.sd 細砂 |
| | p 泥炭 | | m.sd 中砂 |
| | c 粘土 | | c.sd 粗砂 |
| | sit シルト | | ag 集塊岩 |
| | g 砂礫 | | |

石狩No.1

石狩工水No.1



記録の取りまとめ方法

観測井諸元

水位観測基準面標高

観測当初から不動のものとして使用した。北発寒については、観測棟の改築のために昭和51年11月から、また、異常沈下のために昭和57年6月から、それぞれ基準面標高を変更した。

地盤標高

観測当初に精密水準測量した値を記載した。

観測井水位・沈下量表

水位：1日8回（3、6、9、12、15、18、21、24時）の記録の読みの平均を当該日の水位とし、標高で表わした。8回の読みのうち、4回以上の欠測の場合は、当該日を欠測とした。3～1回の欠測を含む読みは“*”を付し、当該日の平均水位とした。

累積沈下量表：観測開始日の基準面を（0）として、沈下（+）、浮上（-）とし、毎日24時の記録の読みを当該日の累積沈下量とした。北発寒については、観測棟の改築のため昭和51年11月より、新たな基準面（0）を設けた。さらに基礎の改築のため昭和63年11月より、新たな基準面（0）を設けた。

月平均水位（平均）：欠測・“*”を付した水位がある場合、月平均水位に“*”を付した。

月間沈下量（月差）：前月末日の累積沈下量の読みから、当該月末日の累積沈下量の読みを差引いた。末日が欠測の場合、各月20日以降の観測最終日を末日とし、差引いた読みに“*”を付した。

水位・沈下量変化図

各月の向かって左側縦線を1日とし、12月の向かって右側縦線を明年1月1日とした。

経年変化図

各年の向かって左側縦線を1月とした。

水 位：1971年（昭和46年）からの各月平均水位を示した。

沈下量：1971年（昭和46年）からの累積沈下量（毎月1日24時を基準とし、欠測の場合は当該月の観測初日の24時の読み）を示した。

注：北発寒A沈下の1982年（昭和57年）6月から1988年（昭和63年）11月までは、地盤沈下経年変化図の右側に記した累積沈下量に従う。

観測所水準点の精密測量値表

(単位：m) (北海道・札幌市・石狩開発㈱による)

| 水準点 および 観測所 年 月 日 | 地 - 1 北発寒観測所 | 73 - 04 屯田観測所 | H78-09 樽川観測所 | 地 - 4 山口観測所 | 地 - 5 花畔観測所 |
|----------------------------------|-----------------|------------------|-----------------|----------------|----------------|
| 1973.10.1 | 4.6212 | 3.9785 | | | |
| 1974.10.1 | | 3.9646 | | | |
| 1975.10.1 | 4.4491 | 3.9640 | | | |
| 1976.10.1 | 4.4051 | 3.9619 | | | |
| 1977.10.1 | 4.3719 | 3.9580 | | 4.2938 | |
| 1978.10.1 | 4.3498 | 3.9493 | 5.6694 | 4.2922 | |
| 1979.10.1 | 4.3083 | 3.9459 | 5.6609 | 4.2885 | |
| 1980.10.1 | 4.2887 | 3.9423 | 5.6612 | 4.2853 | 4.7197 |
| 1981.10.1 | 4.2897 | 3.9498 | 5.6695 | 4.2900 | 4.7214 |
| 1982.10.1 | 4.1627 | 3.9451 | 5.6659 | 4.2886 | 4.7157 |
| 1983.10.1 | | 3.9432 | 5.6650 | 4.2858 | 4.7237 |
| 1984.10.1 | | 3.9348 | 5.6625 | | 4.7177 |
| 1985.10.1 | | 3.9315 | 5.6627 | | 4.7144 |
| 1986.10.1 | | 3.9301 | 5.6656 | | 4.7162 |
| 1987.10.1 | | 移設仮 4.4760 | 5.6629 | | 4.7142 |
| 1988.10.1 | | 水準点移設 3.7008 | 5.6629 | | 4.7149 |
| 1989.10.1 | | 3.6901 | 5.6513 | | 4.7024 |

観測井水位・沈下量表

中島公園観測所

水位 深度 30.2m

| 1989年 | | 1月--12月 | | | | | | | | | | 単位 m | | |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| H | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | | |
| 1 | 20.354 | 19.817 | 19.245 | 19.939 | 20.596 | 20.517 | 20.099 | 19.314 | 19.766 | 20.382 | 20.331 | 20.365 | | |
| 2 | 20.415 | 19.806 | 19.230 | 20.049 | 20.569 | 20.504 | 20.083 | 19.296 | 19.801 | 20.418 | 20.289 | 20.358 | | |
| 3 | 20.440 | 19.777 | 19.217 | 20.140 | 20.551 | 20.461 | 20.115 | 19.258 | 19.867 | 20.416 | 20.256 | 20.326 | | |
| 4 | 20.420 | 19.733 | 19.250 | 20.189 | 20.555 | 20.440 | 20.067 | 19.261 | 20.235 | 20.394 | 20.242 | 20.403 | | |
| 5 | 20.422 | 19.703 | 19.253 | 20.216 | 20.559 | 20.454 | 20.024 | 19.211 | 20.345 | 20.365 | 20.215 | 20.392 | | |
| 6 | 20.391 | 19.701 | 19.314 | 20.261 | 20.560 | 20.484 | 19.980 | 19.213 | 20.408 | 20.342 | 20.251 | 20.350 | | |
| 7 | 20.369 | 19.695 | 19.324 | 20.277 | 20.604 | 20.494 | 19.933 | 19.232 | 20.423 | 20.310 | 20.272 | 20.308 | | |
| 8 | 20.374 | 19.685 | 19.317 | 20.260 | 20.611 | 20.454 | 19.826 | 19.207 | 20.444 | 20.307 | 20.228 | 20.295 | | |
| 9 | 20.353 | 19.673 | 19.318 | 20.317 | 20.634 | 20.456 | 19.805 | 19.185 | 20.408 | 20.326 | 20.312 | 20.305 | | |
| 10 | 20.322 | 19.660 | 19.313 | 20.411 | 20.622 | 20.398 | 19.810 | 19.204 | 20.424 | 20.267 | 20.353 | 20.266 | | |
| 11 | 20.210 | 19.588 | 19.304 | 20.461 | 20.637 | 20.357 | 19.768 | 19.204 | 20.462 | 20.291 | 20.316 | 20.343 | | |
| 12 | 20.167 | 19.600 | 19.302* | 20.502 | 20.633 | 20.369 | 19.770 | 19.163 | 20.419 | 20.273 | 20.330 | 20.375 | | |
| 13 | 20.153 | 19.627 | 19.337 | 20.541 | 20.629 | 20.341 | 19.750 | 19.206 | 20.375 | 20.231 | 20.401 | 20.388 | | |
| 14 | 20.116 | 19.595 | 19.365* | 20.525 | 20.633 | 20.301 | 19.709 | 19.296 | 20.322 | 20.209 | 20.399 | 20.422 | | |
| 15 | 20.073 | 19.599 | 19.373* | 20.569 | 20.619 | 20.282 | 19.680 | 19.310 | 20.278 | 20.210 | 20.392 | 20.430 | | |
| 16 | 20.053 | 19.563 | 19.384* | 20.587 | 20.589 | 20.307 | 19.686 | 19.335 | 20.295 | 20.282 | 20.368 | 20.412 | | |
| 17 | 20.031 | 19.558 | 19.340* | 20.703 | 20.587 | 20.242 | 19.668 | 19.348 | 20.293 | 20.336 | 20.376 | 20.429 | | |
| 18 | 20.031 | 19.515 | 19.381 | 20.703 | 20.559 | 20.234 | 19.646 | 19.371 | 20.349 | 20.329 | 20.366 | 20.458 | | |
| 19 | 20.030 | 19.464 | 19.367 | 20.737 | 20.551 | 20.242 | 19.605 | 19.359 | 20.343 | 20.276 | 20.438 | 20.494 | | |
| 20 | 20.003 | 19.499 | 19.408 | 20.729 | 20.547 | 20.258 | 19.647 | 19.375 | 20.366 | 20.347 | 20.475 | 20.571 | | |
| 21 | 19.971 | 19.450 | 19.395 | 20.663 | 20.568 | 20.215 | 19.619 | 19.393 | 20.384 | 20.329 | 20.486 | 20.581 | | |
| 22 | 19.930 | 19.416 | 19.418 | 20.666 | 20.607 | 20.186 | 19.553 | 19.360 | 20.373 | 20.369 | 20.511 | 20.555 | | |
| 23 | 19.950 | 19.384 | 19.447 | 20.660 | 20.541 | 20.097 | 19.526 | 19.366 | 20.333 | 20.433 | 20.479 | 20.492 | | |
| 24 | 19.944 | 19.378 | 19.513 | 20.723 | 20.533 | 20.056 | 19.537 | 19.417 | 20.327 | 20.465 | 20.464 | 20.516 | | |
| 25 | 19.911 | 19.339 | 19.532 | 20.686 | 20.495 | 20.087 | 19.500 | 19.418 | 20.379 | 20.480 | 20.429 | 20.541 | | |
| 26 | 19.906 | 19.290 | 19.529 | 20.624 | 20.476 | 20.067 | 19.433 | 19.426 | 20.363 | 20.497 | 20.396 | 20.482 | | |
| 27 | 19.906 | 19.294 | 19.610 | 20.595 | 20.446 | 19.944 | 19.401 | 19.402 | 20.324 | 20.467 | 20.416 | 20.579 | | |
| 28 | 19.861 | 19.283 | 19.638 | 20.586 | 20.486 | 19.969 | 19.365 | 19.559 | 20.368 | 20.438 | 20.411 | 20.581 | | |
| 29 | 19.829 | | 19.668 | 20.570 | 20.527 | 20.052 | 19.345 | 19.657 | 20.397 | 20.426 | 20.431 | 20.597 | | |
| 30 | 19.830 | | 19.672 | 20.578 | 20.542 | 20.126 | 19.345 | 19.691 | 20.381 | 20.423 | 20.407 | 20.661 | | |
| 31 | 19.839 | | 19.784 | | 20.513 | | 19.362 | 19.742 | | 20.368 | | 20.677 | | |
| 平均 | 20.116 | 19.560 | 19.404* | 20.482 | 20.567 | 20.279 | 19.698 | 19.347 | 20.308 | 20.355 | 20.368 | 20.450 | | |

北笈寒觀測所

A 水位 深度 130m

| 1989年 | | 1月--12月 | | | | | | | | | | 單位 m | |
|-------|---------|---------|---------|---------|--------|--------|--------|---------|--------|--------|---------|---------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | -6.661 | -6.936* | -7.008 | -6.706 | -6.618 | -6.669 | -6.865 | -6.970 | -6.851 | -6.833 | -6.658 | 欠 | |
| 2 | -6.625 | -6.946 | -7.066 | -6.704 | -6.609 | -6.679 | -6.806 | -6.978 | -6.863 | -6.821 | -6.684 | -6.573 | |
| 3 | -6.571 | -6.958 | 欠 | -6.664 | -6.625 | -6.683 | -6.874 | -6.986 | -6.877 | -6.812 | -6.699 | -6.565 | |
| 4 | -6.550 | -6.979 | 欠 | -6.670 | -6.608 | -6.676 | -6.882 | -7.003 | -6.816 | -6.805 | -6.707 | -6.521 | |
| 5 | -6.526 | -6.991 | -6.983 | -6.692 | -6.571 | -6.645 | -6.897 | -7.001 | -6.833 | -6.790 | -6.739 | -6.525 | |
| 6 | -6.538 | -6.976 | -6.920 | -6.706 | -6.560 | -6.624 | -6.914 | -6.998 | -6.858 | -6.781 | -6.728 | -6.545 | |
| 7 | -6.539 | -6.970 | -6.930 | -6.722 | -6.534 | -6.623 | -6.924 | -6.966 | -6.873 | -6.788 | -6.702 | -6.577 | |
| 8 | -6.525 | -6.987 | -6.949 | -6.729 | -6.497 | -6.666 | -6.952 | -6.968 | -6.873 | -6.778 | -6.672 | -6.581 | |
| 9 | -6.531 | -6.984 | -6.988 | -6.718 | -6.509 | -6.690 | -6.955 | -6.984 | -6.881 | -6.754 | -6.645 | -6.571 | |
| 10 | -6.559 | -6.999 | -6.997 | -6.704 | -6.558 | -6.713 | -6.901 | -6.988 | -6.867 | -6.768 | -6.652 | -6.568 | |
| 11 | -6.610 | -7.020* | -6.999 | -6.699 | -6.592 | -6.745 | -6.909 | -7.000 | -6.818 | -6.766 | -6.681 | -6.574 | |
| 12 | -6.665 | 欠 | -6.987 | -6.708 | -6.612 | -6.713 | -6.927 | -7.012 | -6.800 | -6.798 | -6.694 | -6.554 | |
| 13 | -6.713 | 欠 | -6.937 | -6.716 | -6.609 | -6.722 | -6.955 | -7.029 | -6.828 | -6.808 | -6.652 | -6.565 | |
| 14 | -6.739 | -7.039 | -6.936 | -6.714 | -6.602 | -6.754 | -6.963 | 欠 | -6.844 | -6.807 | -6.619 | 欠 | |
| 15 | -6.778 | -7.069 | -6.950 | -6.709 | -6.569 | -6.754 | -6.976 | 欠 | -6.848 | -6.806 | -6.658 | 欠 | |
| 16 | -6.760 | -7.092 | -6.972 | -6.717 | -6.593 | -6.720 | -6.974 | -6.876 | -6.849 | -6.766 | -6.678 | -6.566* | |
| 17 | -6.765 | -7.111 | -6.970 | -6.658* | -6.615 | -6.743 | -6.936 | -6.847 | -6.835 | -6.702 | -6.694 | 欠 | |
| 18 | -6.794 | 欠 | -6.954 | -6.633 | -6.652 | -6.767 | -6.932 | -6.856 | -6.763 | -6.709 | -6.680 | 欠 | |
| 19 | -6.818 | 欠 | -6.933 | -6.655 | -6.679 | -6.748 | -6.949 | -6.896 | -6.761 | -6.723 | -6.656 | 欠 | |
| 20 | -6.830 | -7.033 | -6.893 | -6.659 | -6.675 | -6.738 | -6.958 | -6.926 | -6.786 | -6.716 | -6.581 | 欠 | |
| 21 | -6.842 | -7.025 | -6.875 | -6.677 | -6.655 | -6.753 | -6.970 | -6.907 | -6.837 | -6.733 | -6.607 | -6.564 | |
| 22 | -6.869 | -7.052 | -6.854 | -6.676 | -6.614 | -6.776 | -6.974 | -6.908 | -6.873 | -6.723 | -6.619 | -6.570 | |
| 23 | -6.855 | 欠 | -6.839 | -6.667 | -6.608 | -6.793 | -6.975 | -6.901 | -6.882 | -6.684 | -6.628 | -6.575 | |
| 24 | -6.848 | 欠 | -6.823 | -6.635 | -6.636 | -6.819 | -6.936 | -6.905 | -6.869 | -6.685 | -6.626 | -6.590 | |
| 25 | -6.902 | -7.030 | -6.791 | -6.621 | -6.656 | -6.826 | -6.943 | -6.927 | -6.815 | -6.698 | -6.628 | -6.573 | |
| 26 | 欠 | -7.020 | -6.772 | -6.632 | -6.662 | -6.789 | -6.968 | -6.952 | -6.808 | -6.701 | 欠 | -6.555 | |
| 27 | 欠 | -7.008 | -6.747 | -6.641 | -6.672 | -6.785 | -6.993 | -6.953 | -6.835 | -6.724 | 欠 | -6.554 | |
| 28 | 欠 | -7.000 | -6.713 | -6.644 | -6.683 | -6.808 | -7.004 | -6.858 | -6.815 | -6.719 | 欠 | -6.564 | |
| 29 | 欠 | | -6.708 | -6.650 | -6.663 | -6.806 | -7.027 | -6.837 | -6.831 | -6.715 | 欠 | -6.565 | |
| 30 | -6.928* | | -6.721 | -6.642 | -6.646 | -6.808 | -7.035 | -6.853 | -6.840 | -6.696 | 欠 | -6.580 | |
| 31 | 欠 | | -6.719 | | -6.651 | | -6.990 | -6.847 | | -6.677 | | -6.586 | |
| 平均 | -6.705* | -7.010* | -6.894* | -6.678* | -6.613 | -6.734 | -6.944 | -6.935* | -6.837 | -6.751 | -6.663* | -6.565* | |

北笈寒觀測所

B 水位 深度 6m

| 1989年 | | 1月--12月 | | | | | | | | | | 單位 m | |
|-------|-------|---------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 2.747 | 2.648 | 2.642 | 3.041 | 2.844 | 2.524 | 2.444 | 欠 | 2.410 | 2.466 | 2.478 | 2.537 | |
| 2 | 2.710 | 2.645 | 2.636 | 3.016 | 2.827 | 2.519 | 2.436 | 欠 | 2.421 | 2.433 | 2.440 | 2.541 | |
| 3 | 2.724 | 2.626 | 2.754 | 3.008 | 2.808 | 2.518 | 2.446 | 欠 | 2.416 | 2.440 | 2.436 | 2.535 | |
| 4 | 2.692 | 2.601 | 2.911 | 2.971 | 2.807 | 2.528 | 2.452 | 2.296* | 2.466 | 2.457 | 2.423 | 2.556 | |
| 5 | 2.698 | 2.593 | 3.013 | 2.954 | 2.788 | 2.530 | 2.450 | 2.294 | 2.508 | 2.463 | 2.398 | 2.523 | |
| 6 | 2.684 | 2.597 | 3.072 | 2.938 | 2.764 | 2.551 | 2.445 | 2.295 | 2.532 | 2.466 | 2.407 | 2.513 | |
| 7 | 2.691 | 2.581 | 3.089 | 2.913 | 2.776 | 2.545 | 2.441 | 2.297 | 2.546 | 2.454 | 2.436 | 2.512 | |
| 8 | 2.696 | 2.598 | 3.104 | 2.906 | 2.767 | 2.495 | 2.419 | 2.295 | 2.558 | 2.455 | 2.417 | 2.551 | |
| 9 | 2.667 | 2.615 | 3.094 | 2.901 | 2.754 | 2.496 | 2.427 | 2.285 | 2.564 | 2.414 | 2.460 | 2.508 | |
| 10 | 2.682 | 2.608 | 3.077 | 2.886 | 2.716 | 2.494 | 2.437 | 2.285 | 2.566 | 2.396 | 2.473 | 2.475 | |
| 11 | 2.678 | 2.587 | 3.116 | 2.880 | 2.706 | 2.486 | 2.410 | 2.271 | 2.580 | 2.393 | 2.473 | 2.494 | |
| 12 | 2.677 | 2.579 | 3.124 | 2.864 | 2.700 | 2.480 | 2.415 | 2.262 | 2.579 | 2.391 | 2.489 | 2.484 | |
| 13 | 2.679 | 2.573 | 3.159 | 2.869 | 2.699 | 2.477 | 2.401 | 2.258 | 2.536 | 2.389 | 2.540 | 2.475 | |
| 14 | 2.692 | 2.554 | 3.190 | 2.861 | 2.758 | 2.474 | 2.386 | 2.270 | 2.526 | 2.379 | 2.516 | 2.489 | |
| 15 | 2.655 | 2.560 | 3.198 | 2.856 | 2.701 | 2.474 | 2.380 | 2.273 | 2.526 | 2.378 | 2.484 | 2.515 | |
| 16 | 2.660 | 2.571 | 3.189 | 2.868 | 2.661 | 2.474 | 2.383 | 2.291 | 2.503 | 2.407 | 2.500 | 2.498 | |
| 17 | 2.636 | 2.558 | 3.188 | 2.900 | 2.650 | 2.468 | 2.375 | 2.294 | 2.504 | 2.410 | 2.514 | 2.486 | |
| 18 | 2.640 | 2.573 | 3.165 | 2.866 | 2.624 | 2.455 | 2.361 | 2.288 | 2.525 | 2.359 | 2.542 | 2.479 | |
| 19 | 2.667 | 2.575 | 3.129 | 2.916 | 2.618 | 2.445 | 2.356 | 2.262 | 2.507 | 2.397 | 2.587 | 2.490 | |
| 20 | 2.686 | 2.604 | 3.127 | 2.965 | 2.638 | 2.438 | 2.362 | 2.253 | 2.524 | 2.415 | 2.536 | 2.513 | |
| 21 | 2.693 | 2.594 | 3.123 | 2.960 | 2.652 | 2.436 | 2.365 | 2.252 | 2.482 | 2.406 | 2.532 | 2.489 | |
| 22 | 2.651 | 2.574 | 3.108 | 2.982 | 2.631 | 2.429 | 2.369 | 2.252 | 2.470 | 2.458 | 2.562 | 2.497 | |
| 23 | 2.649 | 2.568 | 3.085 | 2.966 | 2.616 | 2.427 | 2.363 | 2.270 | 2.470 | 2.475 | 2.570 | 2.487 | |
| 24 | 2.682 | 2.606 | 3.076 | 2.961 | 2.592 | 2.421 | 2.356 | 2.276 | 2.466 | 2.460 | 2.570 | 2.469 | |
| 25 | 2.633 | 2.602 | 3.101 | 2.941 | 2.581 | 2.424 | 2.345 | 2.266 | 2.490 | 2.465 | 2.561 | 2.472 | |
| 26 | 2.659 | 2.609 | 3.067 | 2.900 | 2.579 | 2.416 | 2.330 | 2.276 | 2.464 | 2.479 | 2.554 | 2.484 | |
| 27 | 2.700 | 2.579 | 3.057 | 2.894 | 2.572 | 2.405 | 2.318 | 2.297 | 2.447 | 2.447 | 2.569 | 2.515 | |
| 28 | 2.675 | 2.623 | 3.063 | 2.885 | 2.553 | 2.408 | 2.312 | 2.358 | 2.492 | 2.484 | 2.597 | 2.562 | |
| 29 | 2.638 | | 3.041 | 2.870 | 2.543 | 2.437 | 2.309 | 2.349 | 2.436 | 2.480 | 2.587 | 2.597 | |
| 30 | 2.606 | | 3.018 | 2.856 | 2.546 | 2.448 | 2.314 | 2.382 | 2.461 | 2.456 | 2.567 | 2.605 | |
| 31 | 2.637 | | 3.024 | | 2.536 | | 欠 | 2.415 | | 2.466 | | 2.616 | |
| 平均 | 2.673 | 2.592 | 3.056 | 2.919 | 2.677 | 2.470 | 2.386* | 2.291* | 2.499 | 2.433 | 2.507 | 2.515 | |

北笈寒觀測所

A 沈下

| 1989年 | | 1月--12月 | | | | | | | | | | 單位 | mm | |
|-------|------|---------|-------|------|------|------|------|------|------|------|------|-------|----|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | | |
| 1 | 0.28 | 0.87 | 1.36 | 0.87 | 1.21 | 1.86 | 2.45 | 2.96 | 3.41 | 3.57 | 3.84 | 4.14 | | |
| 2 | 0.29 | 0.88 | 1.39 | 0.90 | 1.24 | 1.87 | 2.49 | 2.96 | 3.39 | 3.64 | 3.91 | 4.11 | | |
| 3 | 0.30 | 0.91 | 1.28 | 0.91 | 1.26 | 1.87 | 2.49 | 2.98 | 3.40 | 3.64 | 3.91 | 4.08 | | |
| 4 | 0.30 | 1.02 | 1.02 | 0.99 | 1.28 | 1.85 | 2.50 | 2.95 | 3.45 | 3.64 | 3.95 | 4.10 | | |
| 5 | 0.34 | 1.03 | 1.03 | 0.99 | 1.30 | 1.87 | 2.51 | 2.99 | 3.43 | 3.63 | 4.00 | 4.12 | | |
| 6 | 0.38 | 1.06 | 1.02 | 1.03 | 1.36 | 1.86 | 2.50 | 2.98 | 3.44 | 3.61 | 3.98 | 4.17 | | |
| 7 | 0.38 | 1.10 | 1.01 | 1.06 | 1.34 | 1.97 | 2.56 | 3.02 | 3.44 | 3.66 | 3.94 | 4.13 | | |
| 8 | 0.39 | 1.12 | 1.04 | 1.04 | 1.37 | 1.98 | 2.57 | 3.04 | 3.44 | 3.68 | 3.99 | 4.13 | | |
| 9 | 0.41 | 1.13 | 1.04 | 1.06 | 1.39 | 2.00 | 2.56 | 3.07 | 3.46 | 3.74 | 3.98 | 4.23 | | |
| 10 | 0.37 | 1.12 | 1.00 | 1.06 | 1.50 | 2.02 | 2.58 | 3.11 | 3.48 | 3.75 | 4.01 | 欠 | | |
| 11 | 0.41 | 1.15 | 0.95 | 1.06 | 1.52 | 2.04 | 2.58 | 3.16 | 3.46 | 3.74 | 4.04 | 欠 | | |
| 12 | 0.42 | 1.18 | 0.90 | 1.08 | 1.54 | 2.05 | 2.64 | 3.17 | 3.46 | 3.75 | 4.00 | 欠 | | |
| 13 | 0.50 | 1.28 | 0.84 | 1.11 | 1.54 | 2.04 | 2.69 | 3.19 | 3.50 | 3.78 | 3.97 | 欠 | | |
| 14 | 0.48 | 1.36 | 0.73 | 1.10 | 1.44 | 2.04 | 2.71 | 3.18 | 3.52 | 3.84 | 4.05 | 欠 | | |
| 15 | 0.53 | 1.37 | 0.75 | 1.13 | 1.55 | 2.06 | 2.73 | 3.19 | 3.54 | 3.82 | 4.08 | 欠 | | |
| 16 | 0.54 | 1.36 | 0.77 | 1.02 | 1.60 | 2.07 | 2.74 | 3.24 | 3.58 | 3.79 | 4.06 | 欠 | | |
| 17 | 0.59 | 1.39 | 0.77 | 1.00 | 1.67 | 2.09 | 2.76 | 3.27 | 3.56 | 3.77 | 4.05 | 欠 | | |
| 18 | 0.59 | 1.34 | 0.79 | 1.00 | 1.74 | 2.16 | 2.78 | 3.30 | 3.50 | 3.86 | 4.00 | 欠 | | |
| 19 | 0.59 | 1.35 | 0.78 | 0.98 | 1.72 | 2.26 | 2.76 | 3.37 | 3.51 | 3.81 | 3.98 | 欠 | | |
| 20 | 0.57 | 1.33 | 0.78 | 0.96 | 1.70 | 2.31 | 2.76 | 3.37 | 3.50 | 3.82 | 4.01 | 欠 | | |
| 21 | 0.56 | 1.37 | 0.80 | 1.00 | 1.68 | 2.33 | 2.76 | 3.39 | 3.52 | 3.85 | 4.03 | 4.65 | | |
| 22 | 0.61 | 1.39 | 0.82 | 0.97 | 1.69 | 2.35 | 2.75 | 3.42 | 3.54 | 3.81 | 4.05 | 4.63 | | |
| 23 | 0.62 | 1.39 | 0.86 | 1.01 | 1.75 | 2.37 | 2.77 | 3.45 | 3.56 | 3.83 | 4.06 | 欠 | | |
| 24 | 0.63 | 1.36 | 0.84 | 1.00 | 1.76 | 2.35 | 2.79 | 3.45 | 3.56 | 3.84 | 4.08 | 欠 | | |
| 25 | 0.70 | 1.37 | 0.84 | 1.07 | 1.80 | 2.35 | 2.80 | 3.49 | 3.59 | 3.82 | 4.09 | 4.76 | | |
| 26 | 0.65 | 1.37 | 0.87 | 1.14 | 1.79 | 2.38 | 2.85 | 3.49 | 3.62 | 3.82 | 4.08 | 欠 | | |
| 27 | 0.65 | 1.41 | 0.85 | 1.11 | 1.80 | 2.35 | 2.89 | 3.49 | 3.63 | 3.86 | 4.07 | 4.73 | | |
| 28 | 0.71 | 1.34 | 0.83 | 1.16 | 1.84 | 2.36 | 2.91 | 3.38 | 3.54 | 3.83 | 4.05 | 欠 | | |
| 29 | 0.76 | | 0.88 | 1.17 | 1.84 | 2.35 | 2.94 | 3.40 | 3.54 | 3.87 | 4.08 | 4.73 | | |
| 30 | 0.87 | | 0.89 | 1.19 | 1.84 | 2.39 | 2.91 | 3.40 | 3.53 | 3.87 | 4.12 | 4.73 | | |
| 31 | 0.86 | | 0.87 | | 1.84 | | 2.92 | 3.40 | | 3.84 | | 欠 | | |
| 月差 | 0.59 | 0.48 | -0.47 | 0.32 | 0.65 | 0.55 | 0.53 | 0.48 | 0.13 | 0.31 | 0.28 | 0.61* | | |

屯田観測所

A 水位 深度 82.5m

| 1989年 | | 1月--12月 | | | | | | | | | | 単位 m | |
|-------|--------|---------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 0.626 | 0.554 | 欠 | 0.912* | 1.111 | 1.037 | 0.972 | 0.728 | 0.626 | 0.799 | 0.965 | 1.127 | |
| 2 | 0.612 | 0.556 | 欠 | 0.922* | 1.111 | 1.024 | 0.959 | 0.708 | 0.635 | 0.788 | 欠 | 1.117 | |
| 3 | 0.621 | 0.557 | 欠 | 0.938* | 1.110 | 1.011 | 0.957 | 0.691 | 欠 | 0.790 | 欠 | 1.119 | |
| 4 | 0.618 | 0.558 | 欠 | 0.942* | 1.115 | 1.011 | 0.959 | 0.674 | 欠 | 0.798 | 欠 | 1.127 | |
| 5 | 0.617 | 0.555 | 欠 | 欠 | 1.117 | 1.008 | 0.960 | 0.649 | 欠 | 0.806 | 欠 | 1.123 | |
| 6 | 0.610 | 0.550 | 欠 | 0.951* | 1.110 | 1.025 | 0.957 | 0.633 | 0.673 | 0.820 | 欠 | 1.117 | |
| 7 | 0.608 | 0.543 | 欠 | 0.957 | 欠 | 1.029 | 0.952 | 0.627 | 0.670 | 0.824 | 0.984 | 1.108 | |
| 8 | 0.608 | 0.544 | 欠 | 0.965* | 欠 | 1.011 | 0.936 | 0.619 | 0.674 | 0.834 | 0.980 | 1.115 | |
| 9 | 0.596 | 0.549 | 欠 | 欠 | 欠 | 1.002 | 0.933 | 0.609 | 0.675 | 0.831 | 1.011 | 1.099 | |
| 10 | 0.595 | 0.549 | 欠 | 欠 | 欠 | 0.999 | 0.937 | 0.606 | 0.680 | 0.827 | 1.016* | 1.088 | |
| 11 | 0.597 | 0.535 | 欠 | 1.000 | 欠 | 0.995 | 0.924 | 0.593 | 0.696 | 0.831 | 欠 | 1.075 | |
| 12 | 0.587 | 0.529 | 欠 | 1.008 | 欠 | 0.988 | 0.927 | 0.577 | 0.706 | 0.837 | 欠 | 1.053 | |
| 13 | 0.585 | 0.529 | 欠 | 1.015 | 欠 | 0.987 | 0.920 | 0.575 | 0.693 | 0.839 | 1.034 | 1.030 | |
| 14 | 欠 | 0.521 | 欠 | 1.020 | 欠 | 0.982 | 0.906 | 0.605 | 0.692 | 0.846 | 1.042 | 1.002 | |
| 15 | 欠 | 0.518 | 欠 | 1.032 | 欠 | 0.981 | 0.899 | 0.598 | 0.700 | 0.850 | 1.041 | 0.983 | |
| 16 | 欠 | 0.518 | 欠 | 1.050 | 欠 | 0.982 | 0.899 | 0.594 | 0.695 | 0.870 | 1.042 | 0.955 | |
| 17 | 欠 | 欠 | 欠 | 1.085 | 欠 | 0.985 | 0.896 | 0.591 | 0.693 | 0.898 | 1.046 | 0.928 | |
| 18 | 欠 | 欠 | 欠 | 1.083 | 欠 | 0.977 | 0.890 | 0.582 | 0.718 | 0.891 | 1.059 | 0.934 | |
| 19 | 欠 | 欠 | 欠 | 1.072 | 欠 | 0.971 | 0.884 | 0.570 | 0.718 | 0.894 | 1.089 | 0.949 | |
| 20 | 欠 | 欠 | 欠 | 1.077 | 欠 | 0.968 | 0.888 | 0.564 | 0.741 | 0.910 | 1.092 | 0.942 | |
| 21 | 欠 | 欠 | 欠 | 1.070 | 欠 | 0.968 | 0.882 | 0.559 | 0.739 | 0.911 | 1.092 | 0.920 | |
| 22 | 0.554 | 0.490 | 欠 | 1.082 | 欠 | 0.964 | 0.868 | 0.558 | 0.736 | 0.913 | 1.082 | 0.910 | |
| 23 | 0.548 | 0.480 | 欠 | 1.085 | 欠 | 0.962 | 0.854 | 0.574 | 0.735 | 0.922* | 1.079 | 0.889 | |
| 24 | 0.553 | 欠 | 欠 | 1.094 | 欠 | 0.958 | 0.846 | 0.577 | 0.739 | 欠 | 1.083 | 0.873 | |
| 25 | 0.532 | 欠 | 欠 | 1.099 | 欠 | 0.956 | 0.828 | 0.569 | 0.751 | 欠 | 1.080 | 0.879 | |
| 26 | 0.536 | 欠 | 欠 | 1.090 | 欠 | 0.956 | 0.808 | 欠 | 0.767 | 0.931 | 1.081 | 0.875 | |
| 27 | 0.559 | 欠 | 0.828 | 1.100 | 1.061 | 0.953 | 0.787 | 欠 | 0.771 | 0.929 | 1.090 | 0.871 | |
| 28 | 0.561 | 欠 | 0.851 | 1.106 | 1.055 | 0.954 | 0.771 | 欠 | 0.801 | 0.946 | 1.107 | 0.854 | |
| 29 | 0.554 | 欠 | 欠 | 1.109 | 1.050 | 0.989 | 0.752 | 欠 | 0.802 | 0.954 | 1.112 | 0.850 | |
| 30 | 0.542 | 欠 | 0.875 | 1.110 | 1.048 | 0.989 | 0.739 | 0.613* | 0.801 | 0.950 | 1.118 | 0.848 | |
| 31 | 0.549 | 欠 | 欠 | 1.052 | 1.052 | 0.739 | 0.629 | 0.629 | 0.956 | 0.956 | 0.849 | 0.849 | |
| 平均 | 0.581* | 0.535* | 0.851* | 1.036* | 1.085* | 0.987 | 0.884 | 0.610* | 0.715* | 0.868* | 1.057* | 0.987 | |

屯田観測所

B 水位 深度 130m

| 1989年 | | 1月--12月 | | | | | | | | | | 単位 m | |
|-------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | -1.754 | -1.734 | -1.759 | -1.867 | -1.857 | -1.818 | -1.794 | -1.837 | 欠 | -1.871 | -1.858 | -1.826 | |
| 2 | -1.759 | -1.727 | -1.780 | -1.869 | -1.854 | -1.823 | -1.803 | -1.844 | 欠 | -1.886 | -1.878 | -1.824 | |
| 3 | -1.751 | -1.722 | -1.777 | -1.866 | -1.855 | -1.825 | -1.804 | -1.848 | 欠 | -1.890 | -1.882 | -1.820 | |
| 4 | -1.754 | -1.726 | -1.745 | -1.875 | -1.857 | -1.820 | -1.802 | -1.848 | 欠 | -1.885 | -1.885 | -1.810 | |
| 5 | -1.754 | -1.726 | -1.756 | -1.881 | -1.863 | -1.816 | -1.801 | -1.848 | 欠 | -1.881 | -1.894 | -1.819 | |
| 6 | -1.760 | -1.724 | -1.764 | -1.882 | -1.854 | -1.802 | -1.802 | -1.850 | -1.842 | -1.877 | -1.891 | -1.822 | |
| 7 | -1.760 | -1.728 | -1.777 | -1.889 | -1.851 | -1.797 | -1.803 | -1.850 | -1.850 | -1.878 | -1.872 | -1.821 | |
| 8 | -1.757 | -1.725 | -1.781 | -1.889 | -1.843 | -1.811 | -1.809 | -1.853 | -1.853 | -1.876 | -1.879 | -1.795 | |
| 9 | -1.766 | -1.718 | -1.788 | -1.875 | -1.854 | -1.812 | -1.808 | -1.857 | -1.855 | -1.885 | -1.857 | -1.789 | |
| 10 | -1.764 | -1.718 | -1.790 | -1.877 | -1.859 | -1.812 | -1.797 | -1.853 | -1.856 | -1.895 | -1.862 | -1.780 | |
| 11 | -1.764 | -1.725 | -1.788 | -1.878 | -1.859 | -1.814 | -1.806 | -1.860 | -1.849 | -1.898 | -1.874 | -1.774 | |
| 12 | -1.766 | -1.729 | -1.797 | -1.884 | -1.859 | -1.815 | -1.803 | -1.865 | -1.846 | -1.897 | -1.874 | -1.768 | |
| 13 | -1.766 | -1.728 | -1.802 | -1.879 | -1.850 | -1.816 | -1.806 | -1.866 | -1.862 | -1.897 | -1.854 | -1.757 | |
| 14 | -1.762 | -1.739 | -1.801 | -1.876 | -1.823 | -1.817 | -1.815 | -1.841 | -1.869 | -1.898 | -1.857 | -1.749 | |
| 15 | -1.771 | -1.741 | -1.811 | -1.872 | -1.831 | -1.817 | -1.817 | -1.851 | -1.869 | -1.898 | -1.869 | -1.739 | |
| 16 | -1.769 | -1.736 | -1.824 | -1.863 | -1.844 | -1.813 | -1.817 | -1.852 | -1.878 | -1.881 | -1.864 | -1.744 | |
| 17 | -1.776 | -1.743 | -1.826 | -1.833 | -1.848 | -1.814 | -1.819 | -1.854 | -1.881 | -1.859 | -1.859 | -1.750 | |
| 18 | -1.778 | -1.742 | -1.827 | -1.847 | -1.855 | -1.820 | -1.824 | -1.858 | -1.865 | -1.872 | -1.846 | -1.743 | |
| 19 | -1.771 | -1.747 | -1.842 | -1.855 | -1.856 | -1.820 | -1.826 | -1.869 | -1.870 | -1.874 | -1.820 | -1.717 | |
| 20 | -1.764 | -1.744 | -1.853 | -1.856 | -1.829 | -1.824 | -1.818 | -1.874 | -1.855 | -1.870 | -1.833 | -1.701 | |
| 21 | -1.758 | -1.744 | -1.867 | -1.863 | -1.831 | -1.822 | -1.815 | -1.880 | -1.865 | -1.881 | -1.846 | -1.702 | |
| 22 | -1.765 | -1.755 | -1.875 | -1.856 | -1.828 | -1.822 | -1.815 | -1.882 | -1.874 | -1.872 | -1.846 | -1.696 | |
| 23 | -1.769 | -1.759 | -1.880 | -1.853 | -1.829 | -1.821 | -1.816 | -1.873* | -1.877 | -1.864 | -1.847 | -1.695 | |
| 24 | -1.756 | -1.750 | -1.881 | -1.853 | -1.834 | -1.824 | -1.821 | 欠 | -1.879 | -1.870 | -1.847 | -1.701 | |
| 25 | -1.765 | -1.751 | -1.862 | -1.853 | -1.833 | -1.821 | -1.821 | 欠 | -1.870 | -1.873 | -1.851 | -1.701 | |
| 26 | -1.762 | -1.754 | -1.867 | -1.865 | -1.832 | -1.818 | -1.829 | 欠 | -1.866 | -1.869 | -1.854 | -1.697 | |
| 27 | -1.734 | -1.767 | -1.873 | -1.864 | -1.832 | -1.824 | -1.837 | 欠 | -1.873 | -1.875 | -1.847 | -1.683 | |
| 28 | -1.731 | -1.758 | -1.867 | -1.857 | -1.832 | -1.821 | -1.843 | 欠 | -1.848 | -1.866 | -1.832 | -1.679 | |
| 29 | -1.738 | 欠 | -1.868 | -1.859 | -1.831 | -1.785 | -1.846 | 欠 | -1.857 | -1.864 | -1.831 | -1.676 | |
| 30 | -1.749 | 欠 | -1.881 | -1.861 | -1.825 | -1.780 | -1.844 | 欠 | -1.864 | -1.873 | -1.828 | -1.680 | |
| 31 | -1.741 | 欠 | -1.877 | 欠 | -1.814 | 欠 | -1.836 | 欠 | 欠 | -1.868 | 欠 | -1.683 | |
| 平均 | -1.759 | -1.737 | -1.822 | -1.866 | -1.842 | -1.814 | -1.816 | -1.857* | -1.862* | -1.878 | -1.857 | -1.746 | |

屯田観測所

A 枕下

| 1989年 | | 1月--12月 | | | | | | | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 単位 mm | | | | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | 29.90 | 30.82 | 31.28 | 28.75 | 29.08 | 30.05 | 30.44 | 31.66 | 31.62 | 30.34 | 30.44 | 30.25 |
| 2 | 29.97 | 30.86 | 31.15 | 28.78 | 29.13 | 30.04 | 30.48 | 31.75 | 31.58 | 30.44 | 30.49 | 30.20 |
| 3 | 30.01 | 30.89 | 30.93 | 28.81 | 29.18 | 30.04 | 30.50 | 31.80 | 31.41 | 30.44 | 30.43 | 30.11 |
| 4 | 30.13 | 30.99 | 30.59 | 28.90 | 29.17 | 30.02 | 30.48 | 31.83 | 30.61 | 30.45 | 30.49 | 30.03 |
| 5 | 30.09 | 31.01 | 30.39 | 28.93 | 29.20 | 30.04 | 30.51 | 31.91 | 30.50 | 30.43 | 30.59 | 30.01 |
| 6 | 30.16 | 31.07 | 30.24 | 29.01 | 29.28 | 30.07 | 30.51 | 31.97 | 30.53 | 30.43 | 30.56 | 30.02 |
| 7 | 30.17 | 31.19 | 30.11 | 29.01 | 29.26 | 30.15 | 30.56 | 32.01 | 30.54 | 30.57 | 30.49 | 30.06 |
| 8 | 30.22 | 31.15 | 30.14 | 29.01 | 29.32 | 30.15 | 30.55 | 32.12 | 30.55 | 30.59 | 30.47 | 30.09 |
| 9 | 30.27 | 31.17 | 30.10 | 29.01 | 29.36 | 30.18 | 30.52 | 32.15 | 30.60 | 30.70 | 30.25 | 30.20 |
| 10 | 30.19 | 31.23 | 30.07 | 28.99 | 29.41 | 30.21 | 30.56 | 32.28 | 30.60 | 30.69 | 30.18 | 30.29 |
| 11 | 30.21 | 31.27 | 30.00 | 29.03 | 29.42 | 30.23 | 30.60 | 32.41 | 30.61 | 30.74 | 30.21 | 30.32 |
| 12 | 30.27 | 31.28 | 29.92 | 29.05 | 29.44 | 30.28 | 30.61 | 32.44 | 30.62 | 30.77 | 30.15 | 30.40 |
| 13 | 30.32 | 31.32 | 29.72 | 29.06 | 29.47 | 30.32 | 30.66 | 32.50 | 30.74 | 30.80 | 30.07 | 30.48 |
| 14 | 30.27 | 31.39 | 29.41 | 29.06 | 29.39 | 30.33 | 30.72 | 32.37 | 30.79 | 30.86 | 30.20 | 30.48 |
| 15 | 30.30 | 31.36 | 29.32 | 29.08 | 29.55 | 30.32 | 30.76 | 32.34 | 30.81 | 30.81 | 30.23 | 30.45 |
| 16 | 30.31 | 31.40 | 29.24 | 29.00 | 29.52 | 30.36 | 30.78 | 32.35 | 30.98 | 30.79 | 30.19 | 30.52 |
| 17 | 30.41 | 31.38 | 29.19 | 28.88 | 29.65 | 30.42 | 30.84 | 32.37 | 30.96 | 30.76 | 30.16 | 30.58 |
| 18 | 30.37 | 31.40 | 29.19 | 28.67 | 29.72 | 30.47 | 30.88 | 32.40 | 30.95 | 30.54 | 30.09 | 30.69 |
| 19 | 30.36 | 31.42 | 29.08 | 28.67 | 29.68 | 30.56 | 30.93 | 32.49 | 30.94 | 30.42 | 29.89 | 30.73 |
| 20 | 30.35 | 31.41 | 28.86 | 28.64 | 29.68 | 30.61 | 30.96 | 32.51 | 30.91 | 30.40 | 29.86 | 30.72 |
| 21 | 30.44 | 31.44 | 28.82 | 28.71 | 29.69 | 30.65 | 30.96 | 32.55 | 30.84 | 30.45 | 29.88 | 30.79 |
| 22 | 30.57 | 31.50 | 28.86 | 28.66 | 29.71 | 30.63 | 30.99 | 32.58 | 30.81 | 30.35 | 29.87 | 30.79 |
| 23 | 30.61 | 31.52 | 28.87 | 28.71 | 29.80 | 30.66 | 31.05 | 32.55 | 30.86 | 30.41 | 29.93 | 30.86 |
| 24 | 30.64 | 31.42 | 28.85 | 28.74 | 29.86 | 30.70 | 31.08 | 32.53 | 30.83 | 30.39 | 29.97 | 30.90 |
| 25 | 30.73 | 31.49 | 28.79 | 28.86 | 29.91 | 30.73 | 31.17 | 32.53 | 30.83 | 30.34 | 29.99 | 30.89 |
| 26 | 30.56 | 31.55 | 28.80 | 28.92 | 29.97 | 30.77 | 31.25 | 32.53 | 30.84 | 30.42 | 30.02 | 30.87 |
| 27 | 30.61 | 31.49 | 28.73 | 28.94 | 30.01 | 30.80 | 31.35 | 32.54 | 30.79 | 30.47 | 29.98 | 30.78 |
| 28 | 30.73 | 31.40 | 28.72 | 28.99 | 30.07 | 30.82 | 31.39 | 32.12 | 30.61 | 30.35 | 30.04 | 30.69 |
| 29 | 30.75 | | 28.75 | 29.01 | 30.10 | 30.57 | 31.45 | 31.77 | 30.41 | 30.41 | 30.11 | 30.60 |
| 30 | 30.86 | | 28.74 | 29.02 | 30.14 | 30.42 | 31.49 | 31.67 | 30.28 | 30.47 | 30.19 | 30.67 |
| 31 | 30.74 | | 28.70 | | 30.03 | | 31.56 | 31.61 | | 30.37 | | 30.65 |
| 月差 | 0.86 | 0.66 | -2.70 | 0.32 | 1.01 | 0.39 | 1.14 | 0.05 | -1.33 | 0.09 | -0.18 | 0.46 |

樽川観測所

| 1989年 | | A 水位 深度 87m | | | | | | | | | | |
|-------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 1月 -- 12月 | | | | | | | | | | |
| | | 単位 m | | | | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | -0.151 | -0.206 | -0.212 | -0.203 | -0.098 | -0.123 | -0.181 | -0.394 | -0.495 | -0.463 | -0.366 | -0.229 |
| 2 | -0.157 | -0.196 | -0.232 | -0.202 | -0.098 | -0.130 | -0.190 | -0.407 | -0.495 | -0.475 | -0.372 | -0.223 |
| 3 | -0.151 | -0.186 | -0.232 | -0.194 | -0.097 | -0.134 | -0.196 | -0.413 | -0.489 | -0.478 | -0.376 | -0.216 |
| 4 | -0.154 | -0.185 | -0.196 | -0.194 | -0.093 | -0.135 | -0.193 | -0.418 | -0.448 | -0.476 | -0.376 | -0.201 |
| 5 | -0.154 | -0.184 | -0.206 | -0.195 | -0.090 | -0.137 | -0.197 | -0.425 | -0.455 | -0.472 | -0.378 | -0.203 |
| 6 | -0.158 | -0.183 | -0.208 | -0.195 | -0.096 | -0.132 | -0.199 | -0.432 | -0.465 | -0.468 | -0.374 | -0.205 |
| 7 | -0.160 | -0.191 | -0.219 | -0.195 | -0.092 | -0.129 | -0.207 | -0.438 | -0.472 | -0.467 | -0.348 | -0.203 |
| 8 | -0.157 | -0.188 | -0.224 | -0.191 | -0.087 | -0.142 | -0.216 | -0.443 | -0.476 | -0.464 | -0.353 | -0.177 |
| 9 | -0.167 | -0.182 | -0.221 | -0.177 | -0.082 | -0.149 | -0.218 | -0.451 | -0.478 | -0.466 | -0.328 | -0.169 |
| 10 | -0.171 | -0.178 | -0.225 | -0.172 | -0.089 | -0.151 | -0.218 | -0.451 | -0.480 | -0.473 | -0.326 | -0.157 |
| 11 | -0.177 | -0.181 | -0.219 | -0.173 | -0.096 | -0.156 | -0.223 | -0.462 | -0.477 | -0.474 | -0.329 | -0.151 |
| 12 | -0.191 | -0.184 | -0.220 | -0.172 | -0.096 | -0.160 | -0.224 | -0.473 | -0.475 | -0.471 | -0.329 | -0.141 |
| 13 | -0.200 | -0.184 | -0.221 | -0.166 | -0.091 | -0.162 | -0.224 | -0.478 | -0.486 | -0.469 | -0.312 | -0.131 |
| 14 | -0.203 | -0.189 | -0.222 | -0.164 | -0.068 | -0.166 | -0.232 | -0.455 | -0.495 | -0.468 | -0.309 | -0.125 |
| 15 | -0.220 | -0.190 | -0.222 | -0.157 | -0.072 | -0.168 | -0.239 | -0.462 | -0.496 | -0.467 | -0.317 | -0.117 |
| 16 | -0.225 | -0.187 | -0.226 | -0.143 | -0.089 | -0.169 | -0.241 | -0.467 | -0.505 | -0.453 | -0.316 | -0.120 |
| 17 | -0.239 | -0.194 | -0.225 | -0.109 | -0.095 | -0.171 | -0.246 | -0.473 | -0.510 | -0.429 | -0.310 | -0.129 |
| 18 | -0.246 | -0.195 | -0.222 | -0.111 | -0.105 | -0.177 | -0.261 | -0.480 | -0.495 | -0.428 | -0.294 | -0.128 |
| 19 | -0.244 | -0.196 | -0.224 | -0.122 | -0.111 | -0.184 | -0.266 | -0.497 | -0.501 | -0.429 | -0.265 | -0.110 |
| 20 | -0.242 | -0.194 | -0.230 | -0.117 | -0.107 | -0.189 | -0.282 | -0.508 | -0.493 | -0.419 | -0.269 | -0.099 |
| 21 | -0.242 | -0.196 | -0.236 | -0.119 | -0.097 | -0.190 | -0.292 | -0.517 | -0.500 | -0.424 | -0.279 | -0.101 |
| 22 | -0.250 | -0.204 | -0.238 | -0.111 | -0.100 | -0.192 | -0.300 | -0.522 | -0.505 | -0.474 | -0.275 | -0.099 |
| 23 | -0.261 | -0.213 | -0.243 | -0.106 | -0.105 | -0.194 | -0.315 | -0.510 | -0.508 | -0.406 | -0.271 | -0.100 |
| 24 | -0.248 | -0.205 | -0.243 | -0.105 | -0.112 | -0.199 | -0.327 | -0.504 | -0.510 | -0.406 | -0.269 | -0.112 |
| 25 | -0.254 | -0.204 | -0.224 | -0.106 | -0.118 | -0.198 | -0.331 | -0.517 | -0.500 | -0.405 | -0.268 | -0.116 |
| 26 | -0.245 | -0.209 | -0.221 | -0.109 | -0.121 | -0.201 | -0.344 | -0.524 | -0.477 | -0.397 | -0.269 | -0.117 |
| 27 | -0.219 | -0.224 | -0.228 | -0.108 | -0.122 | -0.206 | -0.358 | -0.525 | -0.481 | -0.399 | -0.261 | -0.109 |
| 28 | -0.211 | -0.219 | -0.220 | -0.102 | -0.124 | -0.206 | -0.369 | -0.485 | -0.458 | -0.391 | -0.245 | -0.107 |
| 29 | -0.212 | | -0.213 | -0.102 | -0.129 | -0.173 | -0.379 | -0.483 | -0.458 | -0.384 | -0.242 | -0.104 |
| 30 | -0.221 | | -0.218 | -0.098 | -0.129 | -0.169 | -0.386 | -0.492 | -0.462 | -0.388 | -0.236 | -0.102 |
| 31 | -0.215 | | -0.215 | | -0.116 | | -0.387 | -0.490 | | -0.384 | | -0.101 |
| 平均 | -0.204 | -0.194 | -0.222 | -0.147 | -0.100 | -0.166 | -0.266 | -0.470 | -0.484 | -0.438 | -0.308 | -0.142 |

樽川観測所

| 1989年 | | B 水位 深度 200m | | | | | | | | | | |
|-------|--------|--------------|---------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| | | 1月 -- 12月 | | | | | | | | | | |
| | | 単位 m | | | | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | -3.959 | -3.927 | -4.001 | -3.959 | -3.937 | -4.000 | -4.025 | -4.229 | 欠 | -4.149 | -4.074 | -4.021 |
| 2 | -3.952 | -3.911 | -4.030 | -3.951 | -3.937 | -4.011 | -4.044 | -4.250 | 欠 | -4.174 | -4.085 | -4.028 |
| 3 | -3.924 | -3.905 | -4.035 | -3.942 | -3.941 | 欠 | -4.047 | -4.275 | 欠 | -4.188 | -4.101 | -4.022 |
| 4 | -3.915 | -3.916 | -3.984 | -3.943 | -3.932 | 欠 | -4.045 | -4.288 | 欠 | -4.192 | -4.107 | -3.997 |
| 5 | -3.913 | -3.920 | -3.985 | -3.951 | -3.929 | 欠 | -4.043 | -4.303 | 欠 | -4.182 | -4.123 | -3.995 |
| 6 | -3.917 | -3.927 | -3.991 | -3.959 | -3.935 | 欠 | -4.043 | -4.321 | 欠 | -4.159 | -4.128 | -4.001 |
| 7 | -3.916 | -3.939 | -3.996* | -3.969 | -3.930 | 欠 | -4.047 | -4.325 | 欠 | -4.145 | -4.106 | -4.014 |
| 8 | -3.903 | -3.940 | 欠 | -3.969 | -3.917 | 欠 | -4.054 | -4.315 | 欠 | -4.130 | -4.108 | -3.984 |
| 9 | -3.913 | -3.926 | 欠 | -3.951 | -3.906 | 欠 | -4.064 | -4.296 | 欠 | -4.132 | -4.090 | -3.969 |
| 10 | -3.935 | -3.920 | 欠 | -3.944 | -3.913 | 欠 | | -4.279 | 欠 | -4.156 | -4.103 | -3.972 |
| 11 | -3.948 | -3.929 | 欠 | -3.944 | -3.933 | 欠 | 欠 | -4.281 | 欠 | -4.169 | -4.125 | -3.973 |
| 12 | -3.963 | -3.929 | 欠 | -3.949 | -3.945 | 欠 | 欠 | -4.285 | 欠 | -4.175 | -4.131 | -3.970 |
| 13 | -3.985 | -3.925 | 欠 | -3.943 | -3.939 | 欠 | 欠 | -4.278 | 欠 | -4.182 | -4.107 | -3.971 |
| 14 | -3.989 | -3.937 | 欠 | -3.949 | -3.899 | 欠 | 欠 | -4.241 | 欠 | -4.185 | -4.107 | -3.979 |
| 15 | -4.001 | -3.942 | 欠 | -3.941 | 欠 | 欠 | 欠 | -4.253 | 欠 | -4.177 | -4.127 | -3.972 |
| 16 | -4.014 | -3.938 | 欠 | -3.922 | -3.901* | 欠 | 欠 | -4.259 | 欠 | -4.142 | -4.134 | -3.974 |
| 17 | -4.034 | -3.945 | -3.978* | -3.873 | -3.916 | 欠 | 欠 | -4.255 | 欠 | -4.099 | -4.128 | -3.985 |
| 18 | -4.043 | -3.952 | -3.971 | -3.877 | -3.941 | 欠 | 欠 | -4.250 | 欠 | -4.102 | -4.103 | -3.988 |
| 19 | -4.038 | -3.958 | -3.982 | -3.905 | 欠 | 欠 | 欠 | -4.259 | 欠 | -4.104 | -4.053 | -3.977 |
| 20 | -4.024 | -3.953 | -4.001 | -3.917 | 欠 | 欠 | 欠 | -4.271 | 欠 | -4.097 | -4.047 | -3.967 |
| 21 | -4.007 | -3.947 | -4.019 | -3.929 | 欠 | -4.047 | 欠 | -4.275 | 欠 | -4.109 | -4.067 | -3.972 |
| 22 | -4.005 | -3.960 | -4.032 | -3.924 | 欠 | -4.047 | 欠 | -4.276 | 欠 | -4.103 | -4.080 | -3.978 |
| 23 | -4.022 | -3.981 | -4.039 | -3.923 | 欠 | -4.041 | 欠 | -4.256 | 欠 | -4.089 | -4.087 | -3.987 |
| 24 | -3.994 | -3.981 | -4.038 | -3.907 | -3.935* | -4.047 | 欠 | -4.255 | 欠 | -4.086 | -4.087 | -4.002 |
| 25 | -3.992 | -3.980 | -4.000 | -3.910 | -3.951 | -4.057 | -4.199 | -4.273 | 欠 | -4.090 | -4.089 | -4.013 |
| 26 | -3.978 | -3.982 | -3.990 | -3.924 | -3.939 | -4.054 | -4.212 | -4.282 | -4.137 | -4.089 | -4.093 | -4.014 |
| 27 | -3.933 | -4.006 | -3.991 | -3.927 | -3.950 | -4.053 | -4.230 | -4.279 | -4.142 | -4.100 | -4.080 | -3.986 |
| 28 | -3.910 | -4.006 | -3.975 | -3.922 | -3.957 | -4.047 | -4.246 | 欠 | -4.115 | -4.092 | -4.053 | -3.964 |
| 29 | -3.917 | | -3.968 | -3.929 | -3.962 | -4.011 | -4.260 | 欠 | -4.118 | -4.085 | -4.037 | -3.934 |
| 30 | -3.947 | | -3.980 | -3.933 | -3.975 | -4.005 | -4.254 | 欠 | -4.136 | -4.093 | -4.024 | -3.916 |
| 31 | -3.946 | | -3.980 | | -3.981 | | -4.231 | 欠 | | -4.094 | | -3.927 |
| 平均 | -3.965 | -3.945 | -3.998* | -3.932 | -3.936* | -4.035* | -4.127* | -4.274* | -4.129* | -4.131 | -4.092 | -3.982 |

樽川観測所

A 沈下

| 1989年 | | 1月--12月 | | | | | | | | | | |
|-------|-------|---------|-------|------|------|------|------|------|-------|-------|-------|-------|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | 5.77 | 5.78 | 5.78 | 5.42 | 5.58 | 5.65 | 5.70 | 6.01 | 6.09 | 5.78 | 5.70 | 5.66 |
| 2 | 5.80 | 5.80 | 5.75 | 5.40 | 5.46 | 5.66 | 5.71 | 6.04 | 6.09 | 5.79 | 5.69 | 5.65 |
| 3 | 5.76 | 5.79 | 5.74 | 5.43 | 5.59 | 5.66 | 5.70 | 6.05 | 6.07 | 5.78 | 5.67 | 5.59 |
| 4 | 5.81 | 5.79 | 5.69 | 5.43 | 5.56 | 5.62 | 5.71 | 6.05 | 5.89 | 5.77 | 5.69 | 5.57 |
| 5 | 5.80 | 5.78 | 5.68 | 5.45 | 5.58 | 5.63 | 5.74 | 6.06 | 5.89 | 5.77 | 5.71 | 5.58 |
| 6 | 5.78 | 5.82 | 5.67 | 5.46 | 5.59 | 5.68 | 5.74 | 6.08 | 5.89 | 5.78 | 5.68 | 5.58 |
| 7 | 5.78 | 5.78 | 5.66 | 5.44 | 5.57 | 5.70 | 5.76 | 6.07 | 5.91 | 5.78 | 5.66 | 5.60 |
| 8 | 5.76 | 5.81 | 5.68 | 5.45 | 5.57 | 5.69 | 5.77 | 6.09 | 5.91 | 5.81 | 5.66 | 5.59 |
| 9 | 5.75 | 5.82 | 5.70 | 5.42 | 5.60 | 5.70 | 5.78 | 6.09 | 5.91 | 5.83 | 5.64 | 5.63 |
| 10 | 5.74 | 5.82 | 5.66 | 5.44 | 5.61 | 5.70 | 5.78 | 6.10 | 5.90 | 5.79 | 5.64 | 5.63 |
| 11 | 5.78 | 5.78 | 5.67 | 5.45 | 5.61 | 5.72 | 5.78 | 6.10 | 5.90 | 5.79 | 5.66 | 5.64 |
| 12 | 5.77 | 5.81 | 5.61 | 5.46 | 5.61 | 5.72 | 5.78 | 6.12 | 5.90 | 5.79 | 5.64 | 5.63 |
| 13 | 5.73 | 5.81 | 5.59 | 5.47 | 5.61 | 5.73 | 5.79 | 6.14 | 5.91 | 5.80 | 5.64 | 5.64 |
| 14 | 5.75 | 5.81 | 5.56 | 5.47 | 5.60 | 5.73 | 5.79 | 6.08 | 5.92 | 5.80 | 5.65 | 5.65 |
| 15 | 5.74 | 5.79 | 5.52 | 5.49 | 5.63 | 5.74 | 5.79 | 6.10 | 5.93 | 5.81 | 5.65 | 5.64 |
| 16 | 5.75 | 5.79 | 5.54 | 5.41 | 5.61 | 5.73 | 5.81 | 6.12 | 5.96 | 5.80 | 5.67 | 5.64 |
| 17 | 5.75 | 5.77 | 5.55 | 5.41 | 5.64 | 5.73 | 5.82 | 6.11 | 5.97 | 5.77 | 5.66 | 5.65 |
| 18 | 5.80 | 5.79 | 5.54 | 5.40 | 5.64 | 5.77 | 5.84 | 6.11 | 5.97 | 5.72 | 5.63 | 5.66 |
| 19 | 5.73 | 5.80 | 5.46 | 5.43 | 5.64 | 5.78 | 5.85 | 6.13 | 5.93 | 5.71 | 5.61 | 5.66 |
| 20 | 5.73 | 5.79 | 5.41 | 5.43 | 5.64 | 5.79 | 5.86 | 6.14 | 5.95 | 5.72 | 5.59 | 5.66 |
| 21 | 5.73 | 5.80 | 5.39 | 5.47 | 5.66 | 5.79 | 5.85 | 6.11 | 5.94 | 5.74 | 5.59 | 5.65 |
| 22 | 5.77 | 5.81 | 5.39 | 5.46 | 5.65 | 5.78 | 5.85 | 6.15 | 5.95 | 5.73 | 5.59 | 5.66 |
| 23 | 5.79 | 5.76 | 5.37 | 5.47 | 5.69 | 5.77 | 5.87 | 6.13 | 5.97 | 5.73 | 5.60 | 5.65 |
| 24 | 5.73 | 5.78 | 5.35 | 5.47 | 5.69 | 5.77 | 5.90 | 6.13 | 5.96 | 5.71 | 5.61 | 5.66 |
| 25 | 5.76 | 5.77 | 5.37 | 5.49 | 5.70 | 5.78 | 5.89 | 6.13 | 5.95 | 5.68 | 5.62 | 5.64 |
| 26 | 5.74 | 5.79 | 5.34 | 5.52 | 5.70 | 5.78 | 5.93 | 6.11 | 5.85 | 5.70 | 5.62 | 5.65 |
| 27 | 5.76 | 5.76 | 5.34 | 5.52 | 5.70 | 5.78 | 5.93 | 6.13 | 5.87 | 5.70 | 5.62 | 5.60 |
| 28 | 5.73 | 5.77 | 5.36 | 5.53 | 5.70 | 5.79 | 5.95 | 6.13 | 5.81 | 5.68 | 5.62 | 5.61 |
| 29 | 5.75 | | 5.36 | 5.52 | 5.71 | 5.68 | 5.97 | 6.08 | 5.80 | 5.69 | 5.62 | 5.56 |
| 30 | 5.76 | | 5.36 | 5.53 | 5.70 | 5.67 | 5.97 | 6.09 | 5.78 | 5.70 | 5.64 | 5.59 |
| 31 | 5.74 | | 5.41 | | 5.65 | | 5.99 | 6.08 | | 5.69 | | 5.60 |
| 月差 | -0.05 | 0.03 | -0.36 | 0.12 | 0.12 | 0.02 | 0.32 | 0.09 | -0.30 | -0.09 | -0.05 | -0.04 |

分部越観測所

A 水位 深度 200m

| 1989年 | | | 1月--12月 | | | | 単位 m | | | | | | | | | | | | | | |
|-------|---------|--------|---------|---------|---------|------|---------|---------|------|---------|---------|--------|--|--|--|--|--|--|--|--|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | | | | | | | | | |
| 1 | -2.161* | -2.138 | -2.216 | -2.172 | -2.238 | 欠 | 欠 | -2.277 | 欠 | 欠 | -2.293 | -2.264 | | | | | | | | | |
| 2 | 欠 | -2.128 | -2.332 | -2.165 | -2.245 | 欠 | 欠 | -2.270 | 欠 | 欠 | -2.339 | -2.278 | | | | | | | | | |
| 3 | 欠 | -2.121 | -2.315 | -2.147 | -2.240 | 欠 | 欠 | -2.321 | 欠 | 欠 | -2.354 | -2.253 | | | | | | | | | |
| 4 | 欠 | -2.144 | -2.183 | -2.164 | -2.231 | 欠 | 欠 | -2.297 | 欠 | 欠 | -2.358 | -2.192 | | | | | | | | | |
| 5 | 欠 | -2.162 | -2.186 | -2.204 | -2.213 | 欠 | 欠 | -2.312 | 欠 | 欠 | -2.403 | -2.205 | | | | | | | | | |
| 6 | 欠 | -2.154 | -2.201 | -2.209 | -2.240 | 欠 | 欠 | -2.312 | 欠 | 欠 | -2.411 | -2.249 | | | | | | | | | |
| 7 | 欠 | -2.189 | -2.238 | -2.245 | -2.232 | 欠 | 欠 | -2.292 | 欠 | 欠 | -2.343 | -2.277 | | | | | | | | | |
| 8 | 欠 | -2.193 | -2.250 | -2.233 | -2.188 | 欠 | 欠 | -2.280 | 欠 | 欠 | -2.388 | -2.190 | | | | | | | | | |
| 9 | 欠 | -2.162 | -2.269 | -2.194 | -2.157 | 欠 | 欠 | -2.270 | 欠 | 欠 | -2.371 | -2.202 | | | | | | | | | |
| 10 | 欠 | -2.144 | -2.265 | -2.208 | -2.172 | 欠 | 欠 | -2.262 | 欠 | 欠 | -2.400 | -2.248 | | | | | | | | | |
| 11 | -2.205 | -2.169 | -2.234 | -2.217 | -2.208 | 欠 | 欠 | -2.273 | 欠 | 欠 | -2.433 | -2.248 | | | | | | | | | |
| 12 | -2.232 | -2.165 | -2.229 | -2.224 | -2.204 | 欠 | 欠 | -2.289 | 欠 | 欠 | -2.439 | -2.244 | | | | | | | | | |
| 13 | -2.248 | -2.172 | -2.219 | 欠 | -2.199 | 欠 | 欠 | -2.277 | 欠 | 欠 | -2.373 | -2.271 | | | | | | | | | |
| 14 | -2.193 | -2.196 | -2.170 | 欠 | -2.099 | 欠 | 欠 | -2.255 | 欠 | 欠 | 欠 | -2.290 | | | | | | | | | |
| 15 | -2.227 | -2.206 | -2.146 | -2.221* | 欠 | 欠 | 欠 | -2.311 | 欠 | 欠 | 欠 | -2.240 | | | | | | | | | |
| 16 | -2.239 | -2.173 | -2.186 | -2.200 | -2.174* | 欠 | 欠 | -2.314 | 欠 | 欠 | -2.315* | -2.240 | | | | | | | | | |
| 17 | -2.261 | -2.206 | -2.167 | -2.097 | -2.194 | 欠 | 欠 | -2.311 | 欠 | 欠 | -2.404* | -2.268 | | | | | | | | | |
| 18 | -2.287 | -2.232 | -2.167 | -2.162 | -2.243 | 欠 | 欠 | -2.310 | 欠 | 欠 | -2.344 | -2.274 | | | | | | | | | |
| 19 | -2.239 | -2.211 | -2.208 | -2.234 | -2.269 | 欠 | 欠 | -2.347* | 欠 | 欠 | -2.234 | -2.280 | | | | | | | | | |
| 20 | -2.200 | -2.205 | -2.234 | -2.244 | 欠 | 欠 | 欠 | -2.371* | 欠 | 欠 | -2.249 | -2.253 | | | | | | | | | |
| 21 | -2.142 | -2.173 | -2.269 | -2.275 | 欠 | 欠 | -2.291* | -2.357* | 欠 | 欠 | -2.343 | -2.274 | | | | | | | | | |
| 22 | -2.179 | -2.236 | -2.277 | -2.258 | 欠 | 欠 | -2.285 | -2.341* | 欠 | 欠 | -2.360 | -2.279 | | | | | | | | | |
| 23 | -2.246 | -2.296 | -2.295 | -2.225 | 欠 | 欠 | -2.290 | 欠 | 欠 | 欠 | -2.304 | -2.354 | | | | | | | | | |
| 24 | -2.202 | -2.260 | -2.291 | -2.212 | 欠 | 欠 | -2.281 | 欠 | 欠 | 欠 | -2.337 | -2.343 | | | | | | | | | |
| 25 | -2.242 | -2.245 | -2.202 | -2.198 | 欠 | 欠 | -2.279 | 欠 | 欠 | 欠 | -2.350 | -2.346 | | | | | | | | | |
| 26 | -2.242 | -2.238 | -2.199 | 欠 | 欠 | 欠 | -2.298 | 欠 | 欠 | 欠 | -2.323 | -2.358 | | | | | | | | | |
| 27 | -2.130 | -2.285 | -2.220 | 欠 | 欠 | 欠 | -2.324 | 欠 | 欠 | 欠 | -2.366 | -2.334 | | | | | | | | | |
| 28 | -2.117 | -2.270 | -2.194 | 欠 | 欠 | 欠 | -2.357 | 欠 | 欠 | 欠 | -2.345 | -2.263 | | | | | | | | | |
| 29 | -2.147 | 欠 | -2.183 | -2.251 | 欠 | 欠 | -2.355 | 欠 | 欠 | 欠 | -2.317 | -2.229 | | | | | | | | | |
| 30 | -2.190 | 欠 | -2.237 | -2.242 | 欠 | 欠 | -2.323 | 欠 | 欠 | 欠 | -2.356 | -2.224 | | | | | | | | | |
| 31 | -2.186 | 欠 | -2.237 | 欠 | 欠 | 欠 | -2.268 | 欠 | 欠 | 欠 | -2.343 | -2.231 | | | | | | | | | |
| 平均 | -2.205* | -2.195 | -2.226 | -2.208* | -2.208* | **** | -2.304* | -2.302* | **** | -2.337* | -2.344* | -2.249 | | | | | | | | | |

石狩No.1 観測所

| | | 水位 | | 深度 200m | | | | | | | | | |
|-------|--------|---------|--------|---------|--------|--------|---------|------|------|---------|---------|--------|--|
| 1989年 | | 1月--12月 | | | | 単位 m | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | -3.796 | -3.775 | -3.835 | -3.789 | -3.773 | -3.842 | -3.860 | 欠 | 欠 | 欠 | -4.553 | -4.502 | |
| 2 | -3.795 | -3.764 | -3.888 | -3.783 | -3.778 | -3.853 | -3.882 | 欠 | 欠 | 欠 | -4.582 | -4.510 | |
| 3 | -3.769 | -3.760 | -3.885 | -3.774 | -3.788 | -3.851 | -3.884 | 欠 | 欠 | 欠 | -4.597 | -4.494 | |
| 4 | -3.779 | -3.772 | -3.816 | -3.774 | -3.779 | -3.835 | 欠 | 欠 | 欠 | 欠 | -4.598 | -4.460 | |
| 5 | -3.779 | -3.782 | -3.814 | -3.803 | -3.771 | -3.813 | 欠 | 欠 | 欠 | 欠 | -4.624 | -4.459 | |
| 6 | -3.785 | -3.781 | -3.825 | -3.805 | -3.783 | -3.774 | 欠 | 欠 | 欠 | 欠 | -4.627 | -4.483 | |
| 7 | -3.793 | -3.798 | -3.839 | -3.826 | -3.780 | -3.761 | 欠 | 欠 | 欠 | 欠 | -4.583 | -4.504 | |
| 8 | -3.765 | -3.806 | -3.844 | -3.818 | -3.754 | -3.800 | 欠 | 欠 | 欠 | 欠 | -4.604 | -4.451 | |
| 9 | -3.791 | -3.786 | -3.859 | -3.796 | -3.739 | -3.833 | 欠 | 欠 | 欠 | 欠 | -4.583 | -4.444 | |
| 10 | -3.787 | -3.779 | -3.860 | -3.797 | -3.750 | -3.855 | 欠 | 欠 | 欠 | 欠 | -4.603 | -4.459 | |
| 11 | -3.785 | -3.791 | -3.841 | -3.802 | -3.777 | -3.861 | 欠 | 欠 | 欠 | 欠 | -4.625 | -4.464 | |
| 12 | -3.808 | -3.792 | -3.847 | -3.814 | -3.793 | -3.866 | 欠 | 欠 | 欠 | 欠 | -4.630 | -4.459 | |
| 13 | -3.831 | -3.794 | -3.844 | -3.813 | -3.784 | -3.864 | 欠 | 欠 | 欠 | 欠 | -4.589 | -4.469 | |
| 14 | -3.809 | -3.805 | -3.818 | -3.811 | -3.719 | -3.867 | 欠 | 欠 | 欠 | 欠 | -4.583 | -4.483 | |
| 15 | -3.826 | -3.818 | -3.801 | -3.795 | -3.700 | -3.865 | 欠 | 欠 | 欠 | 欠 | -4.631 | -4.458 | |
| 16 | -3.836 | -3.799 | -3.817 | -3.775 | -3.744 | -3.853 | 欠 | 欠 | 欠 | 欠 | -4.632 | -4.458 | |
| 17 | -3.853 | -3.817 | -3.808 | -3.711 | -3.765 | -3.850 | 欠 | 欠 | 欠 | 欠 | -4.611 | -4.475 | |
| 18 | -3.866 | -3.836 | -3.795 | -3.727 | -3.797 | -3.856 | 欠 | 欠 | 欠 | 欠 | -4.574 | -4.478 | |
| 19 | -3.849 | -3.831 | -3.824 | -3.772 | -3.819 | -3.864 | 欠 | 欠 | 欠 | 欠 | -4.507 | -4.475 | |
| 20 | -3.830 | -3.825 | -3.838 | -3.777 | -3.803 | -3.876 | 欠 | 欠 | 欠 | 欠 | -4.509 | -4.458 | |
| 21 | -3.802 | -3.801 | -3.856 | -3.785 | -3.769 | -3.882 | 欠 | 欠 | 欠 | 欠 | -4.558 | -4.466 | |
| 22 | -3.813 | -3.840 | -3.864 | -3.774 | -3.756 | -3.876 | 欠 | 欠 | 欠 | 欠 | -4.568 | -4.473 | |
| 23 | -3.855 | -3.870 | -3.872 | -3.761 | -3.751 | -3.869 | 欠 | 欠 | 欠 | 欠 | -4.568 | -4.469 | |
| 24 | -3.831 | -3.859 | -3.869 | -3.747 | -3.765 | -3.883 | 欠 | 欠 | 欠 | 欠 | -4.566 | -4.487 | |
| 25 | -3.845 | -3.849 | -3.822 | -3.739 | -3.777 | -3.891 | 欠 | 欠 | 欠 | 欠 | -4.568 | -4.492 | |
| 26 | -3.840 | -3.846 | -3.814 | -3.761 | -3.785 | -3.876 | 欠 | 欠 | 欠 | 欠 | -4.569* | -4.486 | |
| 27 | -3.774 | -3.872 | -3.829 | -3.770 | -3.797 | -3.883 | 欠 | 欠 | 欠 | 欠 | -4.595 | -4.451 | |
| 28 | -3.753 | -3.861 | -3.809 | -3.763 | -3.795 | -3.877 | 欠 | 欠 | 欠 | 欠 | -4.586 | -4.512 | |
| 29 | -3.770 | | -3.797 | -3.780 | -3.814 | -3.833 | 欠 | 欠 | 欠 | 欠 | -4.568 | -4.494 | |
| 30 | -3.798 | | -3.823 | -3.770 | -3.827 | -3.836 | 欠 | 欠 | 欠 | 欠 | -4.592 | -4.485 | |
| 31 | -3.798 | | -3.822 | | -3.828 | | 欠 | 欠 | 欠 | 欠 | -4.584 | -4.430 | |
| 平均 | -3.806 | -3.811 | -3.834 | -3.780 | -3.776 | -3.851 | -3.875* | **** | **** | -4.582* | -4.576 | -4.466 | |

注：7～10月に観測所移設工事を行ったため、10～12月は仮基準面からの水位。

山口観測所

| | | A 水位 | | 深度 35m | | | | | | | | | |
|-------|-------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 1989年 | | 1月 --12月 | | | | 単位 m | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 2.380 | 2.386 | 2.272 | 2.635 | 2.503 | 2.332 | 2.269 | 2.182 | 2.144 | 2.130 | 2.202 | 2.257 | |
| 2 | 2.379 | 2.399 | 2.189 | 2.645 | 2.501 | 2.309 | 2.233 | 2.147 | 2.138 | 2.072 | 2.160 | 2.245 | |
| 3 | 2.384 | 2.399 | 2.209 | 2.652 | 2.486 | 2.311 | 2.230 | 2.134 | 2.146 | 2.055 | 2.123 | 2.263 | |
| 4 | 2.349 | 2.348 | 2.366 | 2.624 | 2.495 | 2.338 | 2.244 | 2.144 | 2.162 | 2.085 | 2.106 | 2.298 | |
| 5 | 2.341 | 2.317 | 2.390 | 2.585 | 2.500 | 2.359 | 2.253 | 2.147 | 2.139 | 2.122 | 2.061 | 2.275 | |
| 6 | 2.324 | 2.323 | 2.379 | 2.567 | 2.469 | 2.409 | 2.261 | 2.150 | 2.113 | 2.151 | 2.051 | 2.251 | |
| 7 | 2.316 | 2.308 | 2.358 | 2.530 | 2.483 | 2.413 | 2.268 | 2.164 | 2.093 | 2.167 | 2.121 | 2.237 | |
| 8 | 2.354 | 2.309 | 2.367 | 2.531 | 2.511 | 2.339 | 2.248 | 2.174 | 2.101 | 2.185 | 2.086 | 2.312 | |
| 9 | 2.311 | 2.351 | 2.363 | 2.547 | 2.520 | 2.313 | 2.249 | 2.166 | 2.118 | 2.149 | 2.121 | 2.297 | |
| 10 | 2.315 | 2.371 | 2.363 | 2.532 | 2.473 | 2.313 | 2.286 | 2.169 | 2.134 | 2.085 | 2.127 | 2.214 | |
| 11 | 2.322 | 2.348 | 2.391 | 2.527 | 2.427 | 2.304 | 2.268 | 2.151 | 2.175 | 2.073 | 2.087 | 2.196 | |
| 12 | 2.319 | 2.327 | 2.388 | 2.496 | 2.422 | 2.298 | 2.268 | 2.128 | 2.209 | 2.076 | 2.076 | 2.193 | |
| 13 | 2.316 | 2.312 | 2.403 | 2.517 | 2.439 | 2.294 | 2.251 | 2.117 | 2.172 | 2.087 | 2.154 | 2.164 | |
| 14 | 2.353 | 2.285 | 2.459 | 2.525 | 2.550 | 2.293 | 2.215 | 2.118 | 2.129 | 2.092 | 2.178 | 2.163 | |
| 15 | 2.323 | 2.259 | 2.485 | 2.548 | 2.570 | 2.310 | 2.191 | 2.085 | 2.137 | 2.105 | 2.100 | 2.219 | |
| 16 | 2.317 | 2.291 | 2.468 | 2.564 | 2.473 | 2.327 | 2.197 | 2.084 | 2.119 | 2.171 | 2.098 | 2.217 | |
| 17 | 2.280 | 2.268 | 2.491 | 2.663 | 2.438 | 2.325 | 2.201 | 2.091 | 2.110 | 2.248 | 2.134 | 2.181 | |
| 18 | 2.265 | 2.269 | 2.518 | 2.589 | 2.382 | 2.304 | 2.179 | 2.092 | 2.163 | 2.155 | 2.190 | 2.155 | |
| 19 | 2.307 | 2.269 | 2.478 | 2.522 | 2.350 | 2.285 | 2.171 | 2.065 | 2.154 | 2.123 | 2.303 | 2.157 | |
| 20 | 2.351 | 2.275 | 2.458 | 2.541 | 2.402 | 2.273 | 2.175 | 2.043 | 2.197 | 2.149 | 2.268 | 2.207 | |
| 21 | 2.398 | 2.302 | 2.448 | 2.517 | 2.469 | 2.273 | 2.182 | 2.040 | 2.154 | 2.100 | 2.189 | 2.198 | |
| 22 | 2.346 | 2.239 | 2.444 | 2.542 | 2.478 | 2.265 | 2.204 | 2.038 | 2.103 | 2.130 | 2.187 | 2.202 | |
| 23 | 2.295 | 2.201 | 2.445 | 2.560 | 2.476 | 2.271 | 2.211 | 2.056 | 2.097 | 2.185 | 2.196 | 2.217 | |
| 24 | 2.358 | 2.244 | 2.473 | 2.566 | 2.430 | 2.265 | 2.216 | 2.062 | 2.090 | 2.159 | 2.198 | 2.181 | |
| 25 | 2.314 | 2.261 | 2.569 | 2.577 | 2.409 | 2.280 | 2.209 | 2.033 | 2.143 | 2.145 | 2.187 | 2.174 | |
| 26 | 2.317 | 2.260 | 2.578 | 2.513 | 2.412 | 2.293 | 2.181 | 2.033 | 2.158 | 2.164 | 2.171 | 2.193 | |
| 27 | 2.402 | 2.211 | 2.562 | 2.490 | 2.419 | 2.272 | 2.148 | 2.064 | 2.125 | 2.130 | 2.195 | 2.237 | |
| 28 | 2.437 | 2.227 | 2.605 | 2.507 | 2.394 | 2.283 | 2.125 | 2.170 | 2.206 | 2.150 | 2.269 | 2.265 | |
| 29 | 2.383 | | 2.607 | 2.498 | 2.364 | 2.322 | 2.112 | 2.150 | 2.164 | 2.186 | 2.290 | 2.296 | |
| 30 | 2.320 | | 2.555 | 2.505 | 2.371 | 2.313 | 2.122 | 2.105 | 2.126 | 2.146 | 2.292 | 2.296 | |
| 31 | 2.333 | | 2.565 | | 2.370 | | 2.169 | 2.135 | | 2.151 | | 2.287 | |
| 平均 | 2.339 | 2.298 | 2.440 | 2.553 | 2.451 | 2.309 | 2.210 | 2.110 | 2.140 | 2.133 | 2.164 | 2.227 | |

山口観測所

| | | B 水位 | | 深度 146.5m | | | | | | | | | |
|-------|--------|----------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1989年 | | 1月 --12月 | | | | 単位 m | | | | | | | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | -4.792 | -4.723 | -4.864 | -4.791 | -4.732 | -4.851 | -4.942 | -4.956 | -4.996 | -4.831 | -4.716 | -4.611 | |
| 2 | -4.770 | -4.721 | -4.893 | -4.784 | -4.732 | -4.861 | -4.957 | -4.974 | -4.971 | -4.841 | -4.724 | -4.621 | |
| 3 | -4.744 | -4.723 | -4.897 | -4.760 | -4.771 | -4.872 | -4.963 | -4.989 | -4.929 | -4.846 | -4.734 | -4.619 | |
| 4 | -4.746 | -4.732 | -4.847 | -4.767 | -4.778 | -4.871 | -4.963 | -4.990 | -4.825 | -4.834 | -4.743 | -4.595 | |
| 5 | -4.751 | -4.737 | -4.839 | -4.776 | -4.768 | -4.857 | -4.964 | -5.010 | -4.874 | -4.820 | -4.762 | -4.597 | |
| 6 | -4.763 | -4.737 | -4.838 | -4.785 | -4.772 | -4.843 | -4.977 | -5.063 | -4.879 | -4.810 | -4.761 | -4.595 | |
| 7 | -4.769 | -4.741 | -4.843 | -4.789 | -4.782 | -4.848 | -4.983 | -5.096 | -4.867 | -4.804 | -4.736 | -4.595 | |
| 8 | -4.764 | -4.748 | -4.839 | -4.797 | -4.749 | -4.875 | -4.971 | -5.088 | -4.862 | -4.793 | -4.742 | -4.573 | |
| 9 | -4.775 | -4.738 | -4.845 | -4.784 | -4.745 | -4.889 | -4.985 | -5.081 | -4.861 | -4.786 | -4.716 | -4.565 | |
| 10 | -4.774 | -4.742 | -4.844 | -4.775 | -4.768 | -4.892 | -4.992 | -5.076 | -4.903 | -4.803 | -4.713 | -4.572 | |
| 11 | -4.768 | -4.756 | -4.839 | -4.781 | -4.786 | -4.896 | -5.017 | -5.117 | -4.913 | -4.825 | -4.732 | -4.574 | |
| 12 | -4.768 | -4.764 | -4.840 | -4.789 | -4.796 | -4.905 | -5.006 | -5.118 | -4.910 | -4.826 | -4.742 | -4.576 | |
| 13 | -4.770 | -4.770 | -4.825 | -4.792 | -4.796 | -4.915 | -4.991 | -5.091 | -4.929 | -4.822 | -4.705 | -4.587 | |
| 14 | -4.757 | -4.796 | -4.807 | -4.793 | -4.756 | -4.925 | -4.984 | -5.023 | -4.948 | -4.824 | -4.700 | -4.599 | |
| 15 | -4.764 | -4.812 | -4.800 | -4.788 | -4.760 | -4.929 | -4.988 | -5.000 | -4.949 | -4.819 | -4.714 | -4.599 | |
| 16 | -4.766 | -4.815 | -4.809 | -4.784 | -4.785 | -4.930 | -5.001 | -4.961 | -4.949 | -4.784 | -4.726 | -4.606 | |
| 17 | -4.767 | -4.825 | -4.804 | -4.734 | -4.804 | -4.929 | -4.978 | -4.970 | -4.950 | -4.742 | -4.724 | -4.623 | |
| 18 | -4.772 | -4.828 | -4.810 | -4.737 | -4.823 | -4.928 | -5.007 | -5.000 | -4.918 | -4.744 | -4.705 | -4.624 | |
| 19 | -4.766 | -4.833 | -4.825 | -4.757 | -4.840 | -4.928 | -5.027 | -5.027 | -4.916 | -4.753 | -4.663 | -4.613 | |
| 20 | -4.753 | -4.828 | -4.826 | -4.762 | -4.831 | -4.927 | -5.035 | -5.030 | -4.890 | -4.755 | -4.653 | -4.588 | |
| 21 | -4.733 | -4.822 | -4.831 | -4.780 | -4.819 | -4.931 | -5.034 | -5.015 | -4.890 | -4.774 | -4.670 | -4.591 | |
| 22 | -4.736 | -4.850 | -4.838 | -4.780 | -4.805 | -4.940 | -5.029 | -5.084 | -4.899 | -4.781 | -4.676 | -4.602 | |
| 23 | -4.741 | -4.868 | -4.845 | -4.778 | -4.809 | -4.946 | -5.012 | -5.116 | -4.899 | -4.758 | -4.674 | -4.610 | |
| 24 | -4.719 | -4.861 | -4.853 | -4.756 | -4.831 | -4.962 | -4.975 | -5.126 | -4.897 | -4.752 | -4.664 | -4.625 | |
| 25 | -4.737 | -4.857 | -4.815 | -4.746 | -4.843 | -4.969 | -4.998 | -5.159 | -4.867 | -4.749 | -4.648 | -4.628 | |
| 26 | -4.747 | -4.864 | -4.810 | -4.759 | -4.847 | -4.963 | -5.031 | -5.129 | -4.852 | -4.745 | -4.641 | -4.619 | |
| 27 | -4.712 | -4.877 | -4.805 | -4.758 | -4.859 | -4.961 | -5.052 | -5.080 | -4.857 | -4.754 | -4.632 | -4.604 | |
| 28 | -4.702 | -4.873 | -4.792 | -4.748 | -4.877 | -4.960 | -5.062 | -4.973 | -4.814 | -4.754 | -4.612 | -4.596 | |
| 29 | -4.713 | | -4.790 | -4.748 | -4.879 | -4.924 | -5.060 | -4.959 | -4.810 | -4.741 | -4.606 | -4.594 | |
| 30 | -4.727 | | -4.815 | -4.744 | -4.859 | -4.924 | -5.032 | -4.973 | -4.829 | -4.739 | -4.605 | -4.595 | |
| 31 | -4.729 | | -4.817 | | -4.844 | | -4.962 | -4.966 | | -4.733 | | -4.589 | |
| 平均 | -4.751 | -4.794 | -4.830 | -4.770 | -4.801 | -4.911 | -4.999 | -5.040 | -4.895 | -4.785 | -4.694 | -4.599 | |

山口観測所

C 水位 深度 6m

| 1989年 | | 1月--12月 | | | | | | | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | 3.707 | 3.581 | 3.639 | 4.093 | 3.769 | 3.564 | 3.544 | 3.300 | 3.447 | 3.540 | 3.454 | 3.476 |
| 2 | 3.673 | 3.570 | 3.655 | 4.061 | 3.757 | 3.554 | 3.524 | 3.284 | 3.451 | 3.501 | 3.426 | 3.477 |
| 3 | 3.684 | 3.552 | 3.697 | 4.041 | 3.741 | 3.548 | 3.516 | 3.279 | 3.498 | 3.492 | 3.418 | 3.478 |
| 4 | 3.652 | 3.532 | 3.816 | 4.000 | 3.742 | 3.554 | 3.508 | 3.275 | 3.751 | 3.492 | 3.406 | 3.498 |
| 5 | 3.659 | 3.526 | 3.892 | 3.967 | 3.723 | 3.545 | 3.496 | 3.270 | 3.678 | 3.487 | 3.387 | 3.471 |
| 6 | 3.643 | 3.530 | 3.870 | 3.940 | 3.700 | 3.567 | 3.486 | 3.264 | 3.636 | 3.484 | 3.391 | 3.460 |
| 7 | 3.653 | 3.519 | 3.858 | 3.914 | 3.716 | 3.553 | 3.471 | 3.263 | 3.606 | 3.466 | 3.421 | 3.457 |
| 8 | 3.655 | 3.528 | 3.837 | 3.897 | 3.704 | 3.524 | 3.447 | 3.256 | 3.593 | 3.459 | 3.402 | 3.486 |
| 9 | 3.629 | 3.541 | 3.810 | 3.904 | 3.694 | 3.522 | 3.445 | 3.255 | 3.582 | 3.427 | 3.507 | 3.456 |
| 10 | 3.639 | 3.533 | 3.806 | 3.907 | 3.662 | 3.520 | 3.451 | 3.258 | 3.571 | 3.411 | 3.517 | 3.430 |
| 11 | 3.634 | 3.515 | 3.843 | 3.887 | 3.648 | 3.512 | 3.432 | 3.244 | 3.573 | 3.406 | 3.492 | 3.443 |
| 12 | 3.632 | 3.508 | 3.883 | 3.860 | 3.647 | 3.505 | 3.434 | 3.236 | 3.560 | 3.402 | 3.487 | 3.434 |
| 13 | 3.631 | 3.507 | 3.961 | 3.858 | 3.656 | 3.500 | 3.423 | 3.239 | 3.516 | 3.398 | 3.521 | 3.425 |
| 14 | 3.643 | 3.494 | 4.038 | 3.842 | 3.722 | 3.496 | 3.410 | 3.313 | 3.500 | 3.389 | 3.504 | 3.433 |
| 15 | 3.611 | 3.503 | 4.079 | 3.836 | 3.667 | 3.495 | 3.403 | 3.309 | 3.498 | 3.387 | 3.474 | 3.452 |
| 16 | 3.615 | 3.515 | 4.094 | 3.852 | 3.620 | 3.493 | 3.401 | 3.307 | 3.470 | 3.399 | 3.483 | 3.442 |
| 17 | 3.596 | 3.504 | 4.086 | 3.994 | 3.608 | 3.482 | 3.389 | 3.301 | 3.466 | 3.449 | 3.490 | 3.422 |
| 18 | 3.595 | 3.515 | 4.053 | 4.098 | 3.590 | 3.469 | 3.375 | 3.289 | 3.490 | 3.481 | 3.512 | 3.414 |
| 19 | 3.614 | 3.512 | 4.103 | 4.044 | 3.589 | 3.462 | 3.371 | 3.267 | 3.476 | 3.488 | 3.573 | 3.418 |
| 20 | 3.623 | 3.531 | 4.205 | 4.012 | 3.608 | 3.457 | 3.381 | 3.253 | 3.484 | 3.493 | 3.581 | 3.430 |
| 21 | 3.625 | 3.514 | 4.225 | 3.949 | 3.625 | 3.455 | 3.377 | 3.243 | 3.447 | 3.471 | 3.568 | 3.415 |
| 22 | 3.584 | 3.491 | 4.205 | 3.942 | 3.603 | 3.449 | 3.372 | 3.238 | 3.437 | 3.494 | 3.571 | 3.420 |
| 23 | 3.584 | 3.488 | 4.167 | 3.912 | 3.587 | 3.445 | 3.364 | 3.284 | 3.434 | 3.508 | 3.557 | 3.414 |
| 24 | 3.613 | 3.515 | 4.153 | 3.898 | 3.566 | 3.439 | 3.357 | 3.312 | 3.428 | 3.487 | 3.542 | 3.401 |
| 25 | 3.568 | 3.509 | 4.186 | 3.870 | 3.558 | 3.439 | 3.346 | 3.301 | 3.440 | 3.481 | 3.525 | 3.401 |
| 26 | 3.590 | 3.507 | 4.192 | 3.823 | 3.559 | 3.431 | 3.334 | 3.296 | 3.425 | 3.478 | 3.509 | 3.411 |
| 27 | 3.626 | 3.480 | 4.177 | 3.817 | 3.551 | 3.420 | 3.322 | 3.299 | 3.413 | 3.451 | 3.513 | 3.535 |
| 28 | 3.599 | 3.537 | 4.161 | 3.810 | 3.537 | 3.419 | 3.314 | 3.413 | 3.476 | 3.470 | 3.528 | 3.579 |
| 29 | 3.562 | | 4.142 | 3.795 | 3.530 | 3.537 | 3.305 | 3.474 | 3.570 | 3.463 | 3.517 | 3.577 |
| 30 | 3.541 | | 4.109 | 3.782 | 3.542 | 3.571 | 3.303 | 3.463 | 3.564 | 3.437 | 3.500 | 3.563 |
| 31 | 3.569 | | 4.094 | | 3.567 | | 3.312 | 3.468 | | 3.442 | | 3.552 |
| 平均 | 3.620 | 3.519 | 4.001 | 3.920 | 3.638 | 3.497 | 3.406 | 3.298 | 3.516 | 3.459 | 3.492 | 3.460 |

山口観測所

A 沈下

| 1989年 | | 1月--12月 | | | | | 単位 | | mm | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 18.95 | 19.11 | 19.10 | 18.44 | 18.71 | 19.01 | 19.05 | 19.28 | 19.27 | 19.22 | 19.31 | 19.28 | |
| 2 | 18.98 | 19.10 | 19.08 | 18.45 | 18.74 | 19.03 | 19.07 | 19.28 | 19.27 | 19.25 | 19.35 | 19.28 | |
| 3 | 18.98 | 19.10 | 19.06 | 18.46 | 18.77 | 19.03 | 19.07 | 19.30 | 19.05 | 19.23 | 19.31 | 19.27 | |
| 4 | 18.98 | 19.12 | 18.89 | 18.52 | 18.78 | 19.02 | 19.09 | 19.31 | 19.04 | 19.26 | 19.33 | 19.27 | |
| 5 | 19.00 | 19.11 | 18.83 | 18.56 | 18.79 | 19.01 | 19.09 | 19.31 | 19.05 | 19.23 | 19.35 | 19.28 | |
| 6 | 18.98 | 19.13 | 18.85 | 18.59 | 18.80 | 19.01 | 19.08 | 19.31 | 19.06 | 19.23 | 19.35 | 19.29 | |
| 7 | 19.00 | 19.16 | 18.85 | 18.60 | 18.80 | 19.08 | 19.08 | 19.32 | 19.06 | 19.27 | 19.34 | 19.31 | |
| 8 | 19.02 | 19.15 | 18.88 | 18.61 | 18.83 | 19.05 | 19.10 | 19.33 | 19.08 | 19.27 | 19.35 | 19.32 | |
| 9 | 18.98 | 19.16 | 18.89 | 18.59 | 18.84 | 19.04 | 19.15 | 19.32 | 19.09 | 19.33 | 19.29 | 19.35 | |
| 10 | 18.96 | 19.13 | 18.87 | 18.60 | 18.84 | 19.06 | 19.15 | 19.33 | 19.09 | 19.31 | 19.27 | 19.36 | |
| 11 | 18.96 | 19.14 | 18.84 | 18.61 | 18.88 | 19.07 | 19.14 | 19.36 | 19.09 | 19.30 | 19.28 | 19.38 | |
| 12 | 19.00 | 19.15 | 18.78 | 18.62 | 18.89 | 19.07 | 19.14 | 19.34 | 19.09 | 19.30 | 19.29 | 19.37 | |
| 13 | 19.05 | 19.17 | 18.73 | 18.63 | 18.91 | 19.07 | 19.17 | 19.37 | 19.13 | 19.30 | 19.27 | 19.39 | |
| 14 | 19.02 | 19.20 | 18.60 | 18.64 | 18.85 | 19.09 | 19.17 | 19.33 | 19.16 | 19.31 | 19.29 | 19.39 | |
| 15 | 19.01 | 19.18 | 18.57 | 18.65 | 18.91 | 19.09 | 19.16 | 19.33 | 19.16 | 19.32 | 19.30 | 19.38 | |
| 16 | 19.02 | 19.18 | 18.54 | 18.62 | 18.91 | 19.09 | 19.18 | 19.33 | 19.22 | 19.32 | 19.31 | 19.39 | |
| 17 | 19.02 | 19.18 | 18.55 | 18.57 | 18.93 | 19.08 | 19.19 | 19.34 | 19.23 | 19.33 | 19.29 | 19.38 | |
| 18 | 19.03 | 19.17 | 18.59 | 18.47 | 18.97 | 19.10 | 19.20 | 19.36 | 19.20 | 19.31 | 19.28 | 19.40 | |
| 19 | 19.04 | 19.17 | 18.42 | 18.53 | 18.98 | 19.08 | 19.22 | 19.38 | 19.22 | 19.30 | 19.21 | 19.41 | |
| 20 | 19.05 | 19.18 | 18.38 | 18.57 | 18.96 | 19.10 | 19.21 | 19.37 | 19.23 | 19.29 | 19.22 | 19.40 | |
| 21 | 19.05 | 19.19 | 18.33 | 18.56 | 18.95 | 19.09 | 19.20 | 19.37 | 19.23 | 19.28 | 19.20 | 19.40 | |
| 22 | 19.09 | 19.19 | 18.34 | 18.57 | 18.94 | 19.11 | 19.20 | 19.37 | 19.26 | 19.26 | 19.21 | 19.40 | |
| 23 | 19.05 | 19.18 | 18.39 | 18.57 | 18.98 | 19.09 | 19.22 | 19.38 | 19.26 | 19.28 | 19.23 | 19.41 | |
| 24 | 19.08 | 19.18 | 18.39 | 18.61 | 18.99 | 19.09 | 19.22 | 19.35 | 19.26 | 19.28 | 19.23 | 19.42 | |
| 25 | 19.10 | 19.20 | 18.38 | 18.67 | 18.99 | 19.09 | 19.24 | 19.37 | 19.28 | 19.26 | 19.23 | 19.40 | |
| 26 | 19.05 | 19.19 | 18.34 | 18.69 | 19.01 | 19.12 | 19.26 | 19.36 | 19.29 | 19.28 | 19.24 | 19.39 | |
| 27 | 19.05 | 19.21 | 18.34 | 18.68 | 19.02 | 19.10 | 19.26 | 19.36 | 19.30 | 19.30 | 19.24 | 19.32 | |
| 28 | 19.09 | 19.16 | 18.35 | 18.68 | 19.04 | 19.11 | 19.25 | 19.31 | 19.25 | 19.28 | 19.24 | 19.32 | |
| 29 | 19.10 | | 18.37 | 18.68 | 19.03 | 19.10 | 19.26 | 19.25 | 19.22 | 19.30 | 19.24 | 19.29 | |
| 30 | 19.11 | | 18.40 | 18.71 | 19.04 | 19.06 | 19.27 | 19.26 | 19.16 | 19.29 | 19.27 | 19.30 | |
| 31 | 19.19 | | 18.42 | | 19.00 | | 19.28 | 19.23 | | 19.30 | | 19.28 | |
| 月差 | 0.22 | -0.03 | -0.74 | 0.29 | 0.29 | 0.06 | 0.22 | -0.05 | -0.07 | 0.14 | -0.03 | 0.01 | |

山口観測所

B 沈下

| 1989年 | | 1月--12月 | | | | | 単位 | | mm | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 47.77 | 48.57 | 48.65 | 47.61 | 47.67 | 47.91 | 48.10 | 48.80 | 49.15 | 49.18 | 49.20 | 48.88 | |
| 2 | 47.82 | 48.57 | 48.66 | 47.62 | 47.70 | 47.93 | 48.13 | 48.81 | 49.18 | 49.24 | 49.16 | 48.83 | |
| 3 | 47.79 | 48.59 | 48.54 | 47.62 | 47.67 | 47.93 | 48.14 | 48.86 | 48.93 | 49.24 | 49.11 | 48.84 | |
| 4 | 47.86 | 48.65 | 48.33 | 47.68 | 47.64 | 47.93 | 48.14 | 48.87 | 48.92 | 49.24 | 49.17 | 48.78 | |
| 5 | 47.83 | 48.64 | 48.30 | 47.71 | 47.67 | 47.91 | 48.16 | 48.89 | 48.96 | 49.20 | 49.20 | 48.81 | |
| 6 | 47.89 | 48.63 | 48.30 | 47.75 | 47.71 | 47.90 | 48.15 | 48.89 | 48.97 | 49.19 | 49.19 | 48.83 | |
| 7 | 47.82 | 48.68 | 48.30 | 47.75 | 47.66 | 47.97 | 48.16 | 48.91 | 49.02 | 49.22 | 49.14 | 48.83 | |
| 8 | 47.84 | 48.64 | 48.38 | 47.76 | 47.61 | 47.97 | 48.20 | 48.91 | 49.03 | 49.25 | 49.14 | 48.77 | |
| 9 | 47.93 | 48.61 | 48.37 | 47.78 | 47.66 | 47.98 | 48.20 | 48.95 | 49.04 | 49.30 | 49.07 | 48.86 | |
| 10 | 47.86 | 48.63 | 48.33 | 47.79 | 47.73 | 47.97 | 48.20 | 48.97 | 49.04 | 49.30 | 49.08 | 48.90 | |
| 11 | 47.89 | 48.67 | 48.29 | 47.82 | 47.74 | 48.00 | 48.21 | 49.06 | 49.03 | 49.29 | 49.10 | 48.89 | |
| 12 | 47.96 | 48.68 | 48.25 | 47.83 | 47.73 | 48.01 | 48.23 | 49.08 | 49.04 | 49.31 | 49.08 | 48.92 | |
| 13 | 47.99 | 48.70 | 48.13 | 47.77 | 47.75 | 48.01 | 48.25 | 49.14 | 49.08 | 49.29 | 49.02 | 48.95 | |
| 14 | 47.98 | 48.75 | 47.98 | 47.81 | 47.59 | 48.01 | 48.28 | 49.14 | 49.11 | 49.31 | 49.07 | 48.96 | |
| 15 | 48.06 | 48.72 | 47.93 | 47.80 | 47.69 | 48.02 | 48.32 | 49.18 | 49.11 | 49.29 | 49.08 | 48.92 | |
| 16 | 48.09 | 48.74 | 47.91 | 47.62 | 47.69 | 48.02 | 48.32 | 49.16 | 49.16 | 49.23 | 49.07 | 48.97 | |
| 17 | 48.20 | 48.74 | 47.91 | 47.51 | 47.76 | 48.04 | 48.33 | 49.16 | 49.16 | 49.20 | 49.05 | 48.95 | |
| 18 | 48.22 | 48.72 | 47.93 | 47.44 | 47.83 | 48.05 | 48.37 | 49.20 | 49.13 | 49.24 | 48.94 | 48.99 | |
| 19 | 48.20 | 48.73 | 47.80 | 47.47 | 47.80 | 48.06 | 48.42 | 49.25 | 49.15 | 49.22 | 48.81 | 49.00 | |
| 20 | | 48.68 | 47.82 | 47.48 | 47.81 | 48.07 | 48.46 | 49.24 | 49.15 | 49.22 | 48.83 | 48.97 | |
| 21 | 48.17 | 48.73 | 47.66 | 47.53 | 47.74 | 48.07 | 48.46 | 49.24 | 49.20 | 49.22 | 48.84 | 49.01 | |
| 22 | 48.30 | 48.80 | 47.69 | 47.50 | 47.76 | 48.08 | 48.50 | 49.25 | 49.21 | 49.19 | 48.85 | 49.00 | |
| 23 | 48.47 | 48.80 | 47.72 | 47.54 | 47.79 | 48.10 | 48.52 | 49.26 | 49.24 | 49.18 | 48.85 | 49.05 | |
| 24 | 48.48 | 48.77 | 47.70 | 47.52 | 47.83 | 48.10 | 48.50 | 49.26 | 49.22 | 49.19 | 48.87 | 49.08 | |
| 25 | 48.57 | 48.76 | 47.61 | 47.58 | 47.83 | 48.11 | 48.51 | 49.26 | 49.20 | 49.18 | 48.88 | 49.09 | |
| 26 | 48.52 | 48.80 | 47.60 | 47.63 | 47.83 | 48.12 | 48.59 | 49.26 | 49.26 | 49.18 | 48.87 | 49.07 | |
| 27 | 48.49 | 48.79 | 47.60 | 47.60 | 47.82 | 48.13 | 48.67 | 49.26 | 49.26 | 49.24 | 48.86 | 49.00 | |
| 28 | 48.52 | 48.70 | 47.57 | 47.63 | 47.88 | 48.10 | 48.71 | 49.18 | 49.18 | 49.19 | 48.82 | 48.94 | |
| 29 | 48.58 | | 47.62 | 47.62 | 47.90 | 48.04 | 48.75 | 49.15 | 49.15 | 49.23 | 48.83 | 48.94 | |
| 30 | 48.59 | | 47.66 | 47.64 | 47.95 | 48.06 | 48.75 | 49.14 | 49.13 | 49.24 | 48.86 | 48.97 | |
| 31 | 48.55 | | 47.61 | | 47.93 | | 48.76 | 49.14 | | 49.20 | | 48.96 | |
| 月差 | 1.76 | 0.15 | -1.09 | 0.03 | 0.29 | 0.13 | 0.70 | 0.38 | -0.01 | 0.07 | -0.34 | 0.10 | |

研究庁舎観測所

| | | 水位 | | 深度 120m | | | | | | | | | |
|-------|-------|---------|-------|---------|-------|-------|-------|-------|-------|--------|-------|-------|--|
| 1989年 | | 1月--12月 | | | | | | | | | | 単位 m | |
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 6.700 | 6.264 | 6.154 | 6.259 | 6.104 | 5.766 | 5.426 | 4.946 | 5.009 | 5.785 | 6.112 | 6.262 | |
| 2 | 6.767 | 6.200 | 6.106 | 6.302 | 6.110 | 5.710 | 5.472 | 4.912 | 5.057 | 5.792 | 6.114 | 6.266 | |
| 3 | 6.799 | 6.228 | 6.118 | 6.328 | 6.076 | 5.718 | 5.484 | 4.840 | 5.163 | 5.785 | 6.198 | 6.364 | |
| 4 | 6.761 | 6.235 | 6.152 | 6.244 | 6.113 | 5.739 | 5.426 | 4.812 | 5.199 | 5.823 | 6.229 | 6.334 | |
| 5 | 6.730 | 6.318 | 6.253 | 6.299 | 6.219 | 5.760 | 5.377 | 4.780 | 5.198 | 5.838 | 6.263 | 6.280 | |
| 6 | 6.642 | 6.318 | 6.274 | 6.221 | 6.175 | 5.731 | 5.391 | 4.856 | 5.135 | 5.891 | 6.243 | 6.240 | |
| 7 | 6.654 | 6.250 | 6.203 | 6.229 | 6.213 | 5.746 | 5.325 | 4.849 | 5.146 | 5.817 | 6.205 | 6.167 | |
| 8 | 6.691 | 6.213 | 6.183 | 6.178 | 6.154 | 5.709 | 5.348 | 4.787 | 5.168 | 5.935 | 6.175 | 6.219 | |
| 9 | 6.639 | 6.151 | 6.208 | 6.331 | 6.107 | 5.689 | 5.422 | 4.723 | 5.192 | 5.906 | 6.171 | 6.280 | |
| 10 | 6.535 | 6.152 | 6.182 | 6.270 | 6.040 | 5.686 | 5.375 | 4.682 | 5.310 | 5.969* | 6.145 | 6.353 | |
| 11 | 6.507 | 6.235 | 6.229 | 6.214 | 5.974 | 5.751 | 5.323 | 4.701 | 5.349 | 5.940 | 6.194 | 6.326 | |
| 12 | 6.479 | 6.310 | 6.308 | 6.153 | 5.942 | 5.767 | 5.264 | 4.702 | 5.318 | 5.893 | 6.265 | 6.258 | |
| 13 | 6.407 | 6.235 | 6.337 | 6.155 | 5.973 | 5.666 | 5.289 | 4.788 | 5.304 | 5.901 | 6.273 | 6.241 | |
| 14 | 6.463 | 6.179 | 6.327 | 6.145 | 6.087 | 5.609 | 5.250 | 4.838 | 5.279 | 5.948 | 6.215 | 6.165 | |
| 15 | 6.553 | 6.163 | 6.305 | 6.144 | 6.067 | 5.576 | 5.284 | 4.847 | 5.301 | 5.960 | 6.137 | 6.218 | |
| 16 | 6.591 | 6.118 | 6.241 | 6.243 | 5.961 | 5.525 | 5.295 | 4.835 | 5.398 | 6.009 | 6.181 | 6.218 | |
| 17 | 6.530 | 6.131 | 6.222 | 6.255 | 5.869 | 5.553 | 5.335 | 4.854 | 5.454 | 6.015 | 6.177 | 6.331 | |
| 18 | 6.421 | 6.146 | 6.283 | 6.181 | 5.858 | 5.622 | 5.245 | 4.913 | 5.495 | 6.007 | 6.246 | 6.338 | |
| 19 | 6.393 | 6.220 | 6.331 | 6.166 | 5.801 | 5.585 | 5.218 | 4.883 | 5.478 | 6.019 | 6.373 | 6.242 | |
| 20 | 6.318 | 6.229 | 6.267 | 6.177 | 5.815 | 5.537 | 5.179 | 4.932 | 5.503 | 6.045 | 6.371 | 6.252 | |
| 21 | 6.348 | 6.152 | 6.277 | 6.108 | 5.911 | 5.471 | 5.151 | 4.876 | 5.516 | 6.069 | 6.277 | 6.201 | |
| 22 | 6.423 | 6.126 | 6.275 | 6.146 | 5.939 | 5.483 | 5.131 | 4.847 | 5.452 | 6.193 | 6.255 | 6.220 | |
| 23 | 6.414 | 6.095 | 6.232 | 6.248 | 5.854 | 5.423 | 5.212 | 4.805 | 5.555 | 6.206 | 6.349 | 6.272 | |
| 24 | 6.326 | 6.124 | 6.219 | 6.161* | 5.785 | 5.428 | 5.202 | 4.854 | 5.625 | 6.154 | 6.346 | 6.388 | |
| 25 | 6.246 | 6.194 | 6.236 | 6.145 | 5.732 | 5.520 | 5.092 | 4.819 | 5.647 | 6.213 | 6.399 | 6.292 | |
| 26 | 6.288 | 6.263 | 6.321 | 6.085 | 5.723 | 5.497 | 5.044 | 4.844 | 5.663 | 6.216 | 6.432 | 6.315 | |
| 27 | 6.283 | 6.232 | 6.287 | 6.078 | 5.722 | 5.417 | 4.995 | 4.919 | 5.610 | 6.112 | 6.444 | 6.286 | |
| 28 | 6.300 | 6.149 | 6.242 | 6.044 | 5.799 | 5.431 | 4.982 | 5.020 | 5.653 | 6.103 | 6.380 | 6.362 | |
| 29 | 6.383 | | 6.255 | 6.065 | 5.821 | 5.478 | 4.924 | 4.937 | 5.635 | 6.184 | 6.336 | 6.460 | |
| 30 | 6.335 | | 6.207 | 6.187 | 5.819 | 5.452 | 4.955 | 4.977 | 5.690 | 6.152 | 6.304 | 6.320 | |
| 31 | 6.303 | | 6.219 | | 5.777 | | 4.979 | 4.995 | | 6.093 | | 6.534 | |
| 平均 | 6.491 | 6.201 | 6.240 | 6.192* | 5.952 | 5.601 | 5.238 | 4.850 | 5.383 | 5.999* | 6.260 | 6.296 | |

花畔觀測所

A 水位 深度 58.7m

| 1989年 | | 1月--12月 | | | | | | | | | | 單位 m | |
|-------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 0.298 | 0.342 | 0.275 | 0.393 | 0.338 | 0.266 | 0.256 | 0.238 | 0.230 | 0.192 | 0.330 | 0.363 | |
| 2 | 0.269 | 0.353 | 0.178 | 0.396 | 0.337 | 0.252 | 0.221 | 0.205 | 0.237 | 0.120 | 0.265 | 0.374 | |
| 3 | 0.291 | 0.352 | 0.215 | 0.410 | 0.331 | 0.262 | 0.228 | 0.204 | 0.233 | 0.119 | 0.252 | 0.388 | |
| 4 | 0.242 | 0.310 | 0.384 | 0.375 | 0.345 | 0.292 | 0.244 | 0.220 | 0.259 | 0.161 | 0.230 | 0.438 | |
| 5 | 0.244 | 0.285 | 0.361 | 0.345 | 0.350 | 0.308 | 0.250 | 0.223 | 0.211 | 0.194 | 0.182 | 0.398 | |
| 6 | 0.231* | 0.298 | 0.333 | 0.336 | 0.320 | 0.368 | 0.259 | 0.233 | 0.179 | 0.226 | 0.193 | 0.379 | |
| 7 | 0.228 | 0.281 | 0.308 | 0.299 | 0.348 | 0.343 | 0.263 | 0.252 | 0.158 | 0.231 | 0.259 | 0.384 | |
| 8 | 0.262 | 0.292 | 0.305 | 0.306 | 0.369 | 0.274 | 0.236 | 0.261 | 0.166 | 0.262 | 0.223 | 0.512 | |
| 9 | 0.212 | 0.341 | 0.294 | 0.331 | 0.384 | 0.268 | 0.257 | 0.258 | 0.178 | 0.202 | 0.277 | 0.586 | |
| 10 | 0.228 | 0.355 | 0.288 | 0.317 | 0.334 | 0.272 | 0.296 | 0.266 | 0.191 | 0.161 | 0.258 | 0.666 | |
| 11 | 0.235 | 0.336 | 0.323 | 0.311 | 0.299 | 0.263 | 0.268 | 0.246 | 0.234 | 0.158 | 0.210 | 0.644 | |
| 12 | 0.233 | 0.320 | 0.311 | 0.294 | 0.301 | 0.257 | 0.278 | 0.229 | 0.257 | 0.171 | 0.213 | 0.660 | |
| 13 | 0.231 | 0.302 | 0.323 | 0.325 | 0.332 | 0.254 | 0.255 | 0.229 | 0.197 | 0.185 | 0.302 | 0.683 | |
| 14 | 0.273 | 0.267 | 0.374 | 0.333 | 0.464 | 0.260 | 0.221 | 0.227 | 0.173 | 0.187 | 0.282 | 0.660 | |
| 15 | 0.228 | 0.259 | 0.378 | 0.358 | 0.424 | 0.276 | 0.208 | 0.188 | 0.188 | 0.210 | 0.205 | 0.598 | |
| 16 | 0.229* | 0.290 | 0.347 | 0.395 | 0.339 | 0.294 | 0.220 | 0.200 | 0.161 | 0.294 | 0.226 | 0.623 | |
| 17 | 0.192 | 0.265 | 0.365 | 0.486 | 0.317 | 0.291 | 0.218 | 0.205 | 0.168 | 0.343 | 0.261 | 0.659 | |
| 18 | 0.183 | 0.273 | 0.379 | 0.382 | 0.268 | 0.273 | 0.198 | 0.205 | 0.220 | 0.227 | 0.329 | 0.680 | |
| 19 | 0.232 | 0.274 | 0.332 | 0.321 | 0.252 | 0.259 | 0.195 | 0.167 | 0.204 | 0.231 | 0.446 | 0.654 | |
| 20 | 0.298 | 0.291 | 0.308 | 0.341 | 0.320 | 0.252 | 0.207 | 0.147 | 0.252 | 0.250 | 0.352 | 0.605 | |
| 21 | 0.319 | 0.289 | 0.282 | 0.305 | 0.387 | 0.254 | 0.222 | 0.147 | 0.185 | 0.192 | 0.283 | 0.634 | |
| 22 | 0.252 | 0.237 | 0.268 | 0.344 | 0.381 | 0.255 | 0.245 | 0.157 | 0.152 | 0.252 | 0.300 | 0.613 | |
| 23 | 0.223 | 0.205 | 0.255 | 0.354 | 0.375 | 0.259 | 0.248 | 0.189 | 0.154 | 0.290 | 0.305 | 0.613 | |
| 24 | 0.293 | 0.260 | 0.267 | 0.369 | 0.335 | 0.254 | 0.250 | 0.173 | 0.157 | 0.254 | 0.301 | 0.649 | |
| 25 | 0.232 | 0.268 | 0.366 | 0.379 | 0.324 | 0.273 | 0.241 | 0.141 | 0.224 | 0.250 | 0.287 | 0.645 | |
| 26 | 0.258 | 0.269 | 0.345 | 0.316 | 0.342 | 0.280 | 0.212 | 0.151 | 0.216 | 0.280 | 0.272 | 0.615 | |
| 27 | 0.371 | 0.199 | 0.328 | 0.311 | 0.342 | 0.265 | 0.182 | 0.192 | 0.200 | 0.225 | 0.315 | 0.567 | |
| 28 | 0.366 | 0.244 | 0.374 | 0.333 | 0.316 | 0.287 | 0.172 | 0.307 | 0.305 | 0.285 | 0.392 | 0.543 | |
| 29 | 0.311 | | 0.361 | 0.330 | 0.298 | 0.332 | 0.164 | 0.229 | 0.210 | 0.297 | 0.403 | 0.525 | |
| 30 | 0.248 | | 0.308 | 0.338 | 0.313 | 0.305 | 0.186 | 0.201 | 0.199 | 0.252 | 0.399 | 0.538 | |
| 31 | 0.292 | | 0.327 | | 0.307 | | 0.240 | 0.241 | | 0.282 | | 0.550 | |
| 平均 | 0.258* | 0.287 | 0.318 | 0.347 | 0.338 | 0.278 | 0.230 | 0.210 | 0.203 | 0.225 | 0.285 | 0.562 | |

花畔觀測所

B 水位 深度 12m

| 1989年 | | 1月--12月 | | | | | | | | | | 單位 m | |
|-------|-------|---------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | |
| 1 | 2.902 | 2.767 | 2.643 | 3.273 | 3.075 | 2.910 | 2.757 | 2.568 | 2.575 | 2.781 | 2.901 | 2.925 | |
| 2 | 2.888 | 2.760 | 2.640 | 3.249 | 3.070 | 欠 | 2.743 | 2.558 | 2.580 | 2.774 | 2.882 | 2.929 | |
| 3 | 2.888 | 2.750 | 2.666 | 3.235 | 3.061 | 2.887 | 2.738 | 2.553 | 2.593 | 2.774 | 2.877 | 2.943 | |
| 4 | 2.869 | 2.741 | 2.721 | 3.208 | 3.057 | 2.886 | 2.735 | 2.544 | 2.740 | 2.777 | 2.868 | 2.978 | |
| 5 | 2.868 | 2.735 | 2.774 | 3.192 | 3.048 | 欠 | 2.729 | 2.539 | 2.601 | 2.779 | 2.851 | 2.986 | |
| 6 | 2.858 | 2.731 | 2.803 | 3.176 | 3.038 | 欠 | 2.724 | 2.536 | 2.815 | 2.783 | 2.850 | 2.991 | |
| 7 | 2.857 | 2.724 | 2.829 | 3.161 | 3.038 | 2.879 | 2.715 | 2.531 | 2.822 | 2.776 | 2.878 | 2.993 | |
| 8 | 2.862 | 2.723 | 2.858 | 3.153 | 3.034 | 2.867 | 2.707 | 2.525 | 2.826 | 2.771 | 2.863 | 3.005 | |
| 9 | 2.848 | 2.723 | 2.870 | 3.167 | 3.029 | 2.864 | 2.704 | 2.520 | 2.826 | 2.758 | 2.912 | 2.986 | |
| 10 | 2.847 | 2.720 | 2.881 | 3.162 | 3.010 | 2.861 | 2.702 | 2.516 | 2.825 | 2.748 | 2.937 | 2.959 | |
| 11 | 2.846 | 2.711 | 2.896 | 3.152 | 3.002 | 2.854 | 2.693 | 2.509 | 2.826 | 2.742 | 2.943 | 2.962 | |
| 12 | 2.843 | 2.705 | 2.914 | 3.139 | 3.000 | 2.847 | 2.689 | 2.501 | 2.823 | 2.739 | 2.948 | 2.956 | |
| 13 | 2.837 | 2.700 | 2.955 | 3.137 | 3.001 | 2.840 | 2.683 | 2.497 | 2.795 | 2.737 | 2.961 | 2.945 | |
| 14 | 2.839 | 2.691 | 3.005 | 3.129 | 3.025 | 2.835 | 2.672 | 2.537 | 2.780 | 2.732 | 2.951 | 2.944 | |
| 15 | 2.827 | 2.688 | 3.063 | 3.124 | 2.999 | 2.831 | 2.666 | 2.523 | 2.772 | 2.729 | 2.936 | 2.954 | |
| 16 | 2.825 | 2.688 | 3.110 | 3.140 | 2.975 | 2.827 | 2.662 | 2.513 | 2.753 | 2.740 | 2.947 | 2.944 | |
| 17 | 2.815 | 2.682 | 3.143 | 3.201 | 2.968 | 2.819 | 2.654 | 2.502 | 2.744 | 2.763 | 2.955 | 2.931 | |
| 18 | 2.811 | 2.680 | 3.157 | 3.217 | 2.955 | 2.810 | 2.643 | 2.491 | 2.758 | 2.788 | 2.968 | 2.922 | |
| 19 | 2.814 | 2.675 | 3.201 | 3.217 | 2.947 | 2.802 | 2.638 | 2.482 | 2.743 | 2.819 | 2.996 | 2.920 | |
| 20 | 2.818 | 2.677 | 3.291 | 3.210 | 2.949 | 2.791 | 2.656 | 2.476 | 2.750 | 2.847 | 2.991 | 2.924 | |
| 21 | 2.819 | 2.668 | 3.333 | 3.179 | 2.955 | 2.787 | 2.640 | 2.471 | 2.730 | 2.854 | 2.992 | 2.911 | |
| 22 | 2.798 | 2.655 | 3.343 | 3.178 | 2.944 | 2.783 | 2.635 | 2.468 | 2.721 | 2.873 | 2.999 | 2.911 | |
| 23 | 2.791 | 2.650 | 3.338 | 3.160 | 2.938 | 2.779 | 2.627 | 2.502 | 2.714 | 2.879 | 3.000 | 2.905 | |
| 24 | 2.801 | 2.654 | 3.336 | 3.153 | 2.925 | 2.771 | 2.620 | 2.508 | 2.707 | 2.875 | 2.990 | 2.893 | |
| 25 | 2.781 | 2.648 | 3.338 | 3.135 | 2.915 | 2.767 | 2.612 | 2.485 | 2.708 | 2.876 | 2.975 | 2.890 | |
| 26 | 2.784 | 2.643 | 3.330 | 3.108 | 2.911 | 2.762 | 2.603 | 2.476 | 2.709 | 2.880 | 2.962 | 2.891 | |
| 27 | 2.803 | 2.626 | 3.330 | 3.101 | 2.907 | 2.754 | 2.593 | 2.475 | 2.710 | 2.869 | 2.960 | 2.931 | |
| 28 | 2.788 | 2.633 | 3.318 | 3.095 | 2.899 | 2.749 | 2.587 | 2.533 | 2.748 | 2.888 | 2.968 | 2.958 | |
| 29 | 2.770 | | 3.304 | 3.087 | 2.892 | 2.792 | 2.580 | 2.552 | 2.748 | 2.894 | 2.958 | 2.961 | |
| 30 | 2.757 | | 3.280 | 3.080 | 2.891* | 2.785 | 2.577 | 2.556 | 2.770 | 2.888 | 2.943 | 2.961 | |
| 31 | 2.764 | | 3.273 | | 欠 | | 2.575 | 2.572 | | 2.894 | | 2.958 | |
| 平均 | 2.826 | 2.694 | 3.062 | 3.163 | 2.981* | 2.819* | 2.663 | 2.516 | 2.747 | 2.807 | 2.938 | 2.944 | |

花畔観測所

A 沈下

| 1989年 | | 1月--12月 | | | | | | | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | -2.16 | -2.20 | -2.25 | -2.31 | -2.41 | -2.44 | -2.40 | -2.47 | -2.49 | 欠 | -2.59 | -2.70 |
| 2 | -2.16 | -2.20 | -2.25 | -2.31 | -2.41 | -2.48 | -2.38 | -2.48 | -2.50 | -2.53 | -2.58 | -2.70 |
| 3 | -2.16 | -2.20 | -2.24 | -2.32 | -2.41 | -2.48 | -2.45 | -2.50 | -2.50 | -2.52 | -2.57 | -2.71 |
| 4 | -2.16 | -2.21 | -2.24 | -2.32 | -2.41 | -2.48 | -2.44 | -2.51 | 欠 | -2.53 | -2.58 | -2.74 |
| 5 | -2.16 | -2.21 | -2.23 | -2.32 | 欠 | -2.48 | -2.44 | -2.51 | -2.52 | -2.52 | -2.58 | -2.74 |
| 6 | 欠 | -2.21 | -2.26 | -2.33 | 欠 | -2.49 | -2.47 | -2.51 | -2.52 | -2.52 | -2.60 | -2.75 |
| 7 | -2.15 | -2.22 | -2.27 | -2.33 | 欠 | -2.45 | -2.49 | -2.49 | -2.52 | -2.52 | -2.64 | -2.75 |
| 8 | -2.17 | -2.22 | -2.27 | -2.33 | -2.46 | -2.45 | -2.50 | -2.49 | -2.51 | -2.52 | -2.63 | -2.74 |
| 9 | -2.19 | -2.22 | -2.27 | -2.34 | -2.46 | -2.44 | -2.49 | -2.49 | -2.51 | -2.51 | -2.64 | -2.72 |
| 10 | -2.18 | -2.22 | -2.27 | -2.37 | -2.46 | -2.43 | -2.47 | -2.49 | -2.51 | -2.49 | -2.65 | -2.70 |
| 11 | -2.17 | -2.22 | -2.27 | -2.39 | -2.46 | -2.43 | -2.47 | -2.49 | -2.53 | -2.51 | -2.65 | -2.69 |
| 12 | -2.16 | -2.22 | -2.27 | -2.39 | -2.46 | -2.42 | -2.47 | -2.49 | -2.53 | -2.53 | -2.66 | -2.69 |
| 13 | -2.16 | -2.22 | -2.26 | -2.39 | -2.45 | -2.41 | -2.47 | -2.48 | -2.54 | -2.53 | -2.62 | -2.66 |
| 14 | -2.15 | -2.23 | -2.26 | -2.39 | -2.45 | -2.40 | -2.47 | -2.50 | -2.53 | -2.53 | -2.64 | -2.65 |
| 15 | -2.15 | -2.24 | -2.26 | -2.39 | -2.44 | -2.39 | -2.47 | -2.51 | 欠 | -2.52 | -2.64 | -2.66 |
| 16 | 欠 | -2.24 | -2.26 | -2.39 | -2.44 | -2.38 | -2.47 | -2.51 | -2.53 | -2.50 | -2.63 | -2.66 |
| 17 | 欠 | -2.26 | -2.27 | -2.40 | -2.43 | -2.35 | 欠 | -2.51 | -2.53 | -2.51 | -2.63 | -2.65 |
| 18 | 欠 | -2.27 | -2.27 | -2.39 | -2.43 | -2.34 | -2.46 | -2.51 | -2.53 | -2.51 | -2.63 | -2.65 |
| 19 | 欠 | -2.27 | -2.27 | -2.37 | -2.43 | -2.33 | -2.45 | -2.51 | -2.53 | -2.51 | -2.63 | -2.65 |
| 20 | 欠 | -2.29 | -2.26 | -2.36 | -2.42 | -2.33 | -2.45 | -2.51 | -2.53 | -2.51 | -2.63 | -2.62 |
| 21 | 欠 | -2.28 | -2.28 | -2.35 | -2.41 | -2.32 | -2.45 | -2.51 | -2.53 | -2.51 | -2.63 | -2.61 |
| 22 | 欠 | -2.27 | -2.28 | -2.34 | -2.42 | -2.32 | -2.48 | -2.50 | -2.53 | -2.52 | -2.63 | -2.62 |
| 23 | -2.15 | -2.27 | -2.28 | -2.32 | -2.43 | -2.33 | -2.47 | -2.50 | -2.52 | -2.50 | -2.64 | -2.61 |
| 24 | -2.15 | -2.25 | -2.27 | -2.31 | -2.43 | -2.34 | -2.47 | -2.49 | -2.51 | -2.51 | -2.63 | -2.62 |
| 25 | -2.15 | -2.25 | -2.26 | -2.31 | -2.43 | -2.33 | -2.47 | -2.49 | -2.51 | -2.56 | -2.63 | -2.62 |
| 26 | -2.11 | -2.25 | -2.29 | -2.32 | -2.46 | -2.38 | -2.47 | -2.49 | -2.52 | -2.56 | -2.63 | -2.61 |
| 27 | -2.10 | -2.26 | -2.31 | -2.31 | -2.45 | -2.39 | -2.47 | -2.49 | -2.52 | -2.56 | -2.65 | -2.62 |
| 28 | -2.10 | -2.25 | -2.31 | -2.32 | -2.44 | -2.39 | -2.47 | -2.47 | 欠 | -2.56 | -2.67 | -2.59 |
| 29 | -2.07 | | -2.31 | -2.31 | -2.44 | -2.39 | -2.47 | -2.48 | 欠 | -2.57 | -2.68 | -2.63 |
| 30 | -2.20 | | -2.31 | -2.31 | -2.44 | -2.39 | -2.47 | -2.48 | 欠 | -2.59 | -2.69 | -2.63 |
| 31 | -2.20 | | -2.31 | | -2.44 | | -2.47 | -2.49 | | -2.58 | | -2.62 |
| 月差 | -0.04 | -0.05 | -0.06 | 0.00 | -0.13 | 0.05 | -0.08 | -0.02 | -0.03* | -0.06* | -0.11 | 0.07 |

花畔観測所

B 沈下

| 1989年 | | 1月--12月 | | | | | | | | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 |
| 1 | -0.64 | -0.53 | -0.52 | -0.79 | -0.79 | -0.77 | -0.75 | -0.71 | -0.63 | -0.57 | -0.50 | -0.53 |
| 2 | -0.63 | -0.52 | -0.56 | -0.75 | -0.80 | -0.78 | -0.75 | -0.71 | -0.62 | -0.55 | -0.51 | -0.53 |
| 3 | -0.67 | -0.54 | -0.54 | -0.77 | -0.77 | -0.77 | -0.73 | -0.72 | -0.60 | -0.57 | -0.54 | -0.52 |
| 4 | -0.66 | -0.54 | -0.54 | -0.74 | -0.78 | -0.78 | -0.75 | -0.68 | -0.63 | -0.53 | -0.54 | -0.51 |
| 5 | -0.63 | -0.51 | -0.55 | -0.76 | -0.79 | -0.79 | -0.75 | -0.69 | -0.63 | -0.54 | -0.53 | -0.50 |
| 6 | -0.60 | -0.51 | -0.54 | -0.77 | -0.78 | -0.78 | -0.76 | -0.69 | -0.63 | -0.53 | -0.52 | -0.51 |
| 7 | -0.63 | -0.53 | -0.58 | -0.77 | -0.79 | -0.76 | -0.77 | -0.69 | -0.66 | -0.52 | -0.53 | -0.53 |
| 8 | -0.61 | -0.52 | -0.57 | -0.76 | -0.81 | -0.76 | -0.75 | -0.68 | -0.64 | -0.54 | -0.54 | -0.51 |
| 9 | -0.60 | -0.52 | -0.60 | -0.76 | -0.79 | -0.76 | -0.75 | -0.69 | -0.63 | -0.53 | -0.53 | -0.48 |
| 10 | -0.65 | -0.53 | -0.60 | -0.79 | -0.80 | -0.76 | -0.75 | -0.67 | -0.63 | -0.52 | -0.54 | -0.47 |
| 11 | -0.64 | -0.54 | -0.59 | -0.80 | -0.78 | -0.76 | -0.74 | -0.67 | -0.61 | -0.53 | -0.54 | -0.49 |
| 12 | -0.64 | -0.54 | -0.57 | -0.78 | -0.78 | -0.76 | -0.73 | -0.65 | -0.62 | -0.53 | -0.55 | -0.47 |
| 13 | -0.62 | -0.54 | -0.58 | -0.79 | -0.77 | -0.76 | -0.68 | -0.64 | -0.63 | -0.53 | -0.57 | -0.46 |
| 14 | -0.61 | -0.54 | -0.65 | -0.79 | -0.78 | -0.76 | -0.69 | -0.66 | -0.63 | -0.52 | -0.55 | -0.44 |
| 15 | -0.56 | -0.52 | -0.65 | -0.79 | -0.78 | -0.75 | -0.69 | -0.67 | -0.64 | -0.50 | -0.53 | -0.46 |
| 16 | -0.62 | -0.52 | -0.70 | -0.80 | -0.78 | -0.74 | -0.70 | -0.65 | -0.63 | -0.51 | -0.53 | -0.44 |
| 17 | -0.60 | -0.52 | -0.72 | -0.79 | -0.79 | -0.74 | -0.70 | -0.66 | -0.62 | -0.48 | -0.50 | -0.46 |
| 18 | -0.61 | -0.54 | -0.69 | -0.80 | -0.78 | -0.74 | -0.71 | -0.66 | -0.62 | -0.49 | -0.53 | -0.44 |
| 19 | -0.64 | -0.54 | -0.72 | -0.80 | -0.79 | -0.74 | -0.68 | -0.65 | -0.60 | -0.51 | -0.52 | -0.44 |
| 20 | -0.62 | -0.48 | -0.77 | -0.81 | -0.77 | -0.74 | -0.68 | -0.64 | -0.60 | -0.51 | -0.53 | -0.43 |
| 21 | -0.64 | -0.54 | -0.80 | -0.81 | -0.78 | -0.75 | -0.69 | -0.63 | -0.59 | -0.52 | -0.54 | -0.42 |
| 22 | -0.62 | -0.53 | -0.81 | -0.80 | -0.78 | -0.75 | -0.72 | -0.64 | -0.59 | -0.50 | -0.55 | -0.42 |
| 23 | -0.58 | -0.54 | -0.81 | -0.79 | -0.77 | -0.74 | -0.71 | -0.65 | -0.61 | -0.50 | -0.54 | -0.43 |
| 24 | -0.54 | -0.51 | -0.83 | -0.79 | -0.77 | -0.76 | -0.72 | -0.66 | -0.59 | -0.49 | -0.55 | -0.43 |
| 25 | -0.56 | -0.52 | -0.83 | -0.78 | -0.79 | -0.75 | -0.73 | -0.65 | -0.57 | -0.52 | -0.55 | -0.42 |
| 26 | -0.59 | -0.52 | -0.81 | -0.77 | -0.78 | -0.75 | -0.73 | -0.64 | -0.57 | -0.53 | -0.55 | -0.45 |
| 27 | -0.57 | -0.53 | -0.84 | -0.77 | -0.79 | -0.74 | -0.70 | -0.63 | -0.55 | -0.50 | -0.54 | -0.44 |
| 28 | -0.58 | -0.52 | -0.83 | -0.77 | -0.76 | -0.74 | -0.70 | -0.60 | -0.57 | -0.52 | -0.52 | -0.44 |
| 29 | -0.52 | | -0.80 | -0.78 | -0.75 | -0.75 | -0.71 | -0.63 | -0.58 | -0.53 | -0.54 | -0.44 |
| 30 | -0.53 | | -0.80 | -0.79 | -0.75 | -0.76 | -0.72 | -0.62 | -0.58 | -0.51 | -0.52 | -0.44 |
| 31 | -0.53 | | -0.80 | | -0.76 | | -0.71 | -0.65 | | -0.51 | | -0.42 |
| 月差 | 0.10 | 0.01 | -0.28 | 0.01 | 0.03 | 0.00 | 0.05 | 0.06 | 0.07 | 0.07 | -0.01 | 0.10 |

石狩工水No. 2 観測所

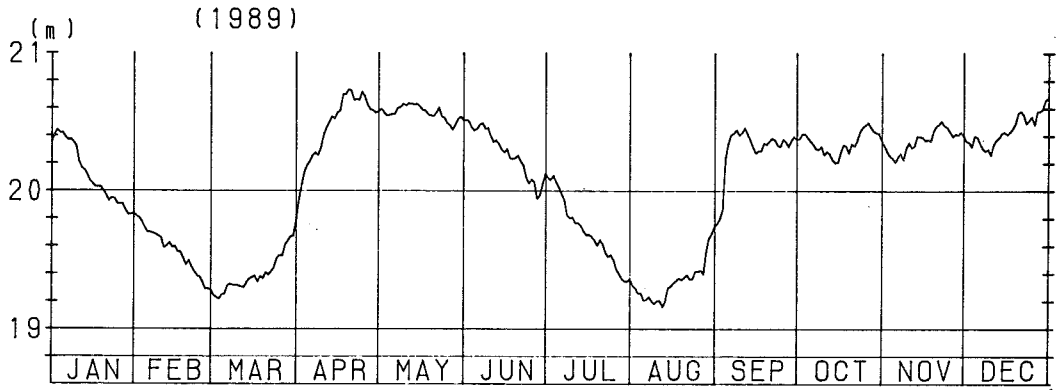
水位 深度 3.5m

| 1989年 | | 1月--12月 | | | | | | | | | | | 単位 m | |
|-------|--------|---------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 日 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 | 11月 | 12月 | | |
| 1 | 欠 | 3.273 | 欠 | 3.841 | 3.731 | 3.535 | 欠 | 3.244 | 欠 | 3.295 | 3.391* | 欠 | | |
| 2 | 欠 | 3.266 | 欠 | 3.845 | 3.720 | 3.528 | 欠 | 3.236 | 欠 | 3.300 | 欠 | 欠 | | |
| 3 | 欠 | 3.259 | 3.172* | 3.850 | 3.708 | 3.524 | 欠 | 3.230 | 欠 | 3.304 | 欠 | 欠 | | |
| 4 | 欠 | 3.254 | 3.188 | 3.845 | 3.699 | 3.526 | 欠 | 3.221 | 欠 | 3.315 | 欠 | 欠 | | |
| 5 | 欠 | 3.251 | 3.205 | 3.842 | 3.691 | 3.522 | 欠 | 3.210 | 欠 | 3.322 | 欠 | 欠 | | |
| 6 | 欠 | 3.248 | 3.227 | 3.837 | 3.679 | 3.519 | 欠 | 3.203 | 欠 | 3.328 | 欠 | 欠 | | |
| 7 | 欠 | 3.243 | 3.243 | 3.828 | 3.675 | 3.518 | 欠 | 3.197 | 欠 | 3.328 | 欠 | 欠 | | |
| 8 | 欠 | 3.240 | 3.260 | 3.822 | 3.668 | 3.533 | 欠 | 3.188 | 欠 | 3.325 | 欠 | 欠 | | |
| 9 | 欠 | 欠 | 3.278 | 3.820 | 3.659 | 3.545 | 欠 | 3.180 | 欠 | 3.311 | 欠 | 欠 | | |
| 10 | 欠 | 欠 | 3.296 | 3.815 | 3.642 | 3.556 | 欠 | 3.173 | 欠 | 3.305 | 欠 | 欠 | | |
| 11 | 3.353 | 欠 | 3.311 | 3.809 | 3.629 | 3.562 | 欠 | 3.165 | 欠 | 3.296 | 欠 | 欠 | | |
| 12 | 3.348 | 欠 | 3.322 | 3.799 | 3.640 | 3.565 | 欠 | 3.159 | 欠 | 3.288 | 欠 | 欠 | | |
| 13 | 3.344 | 欠 | 3.339 | 3.803 | 3.657 | 3.565 | 欠 | 3.151 | 欠 | 3.281 | 3.400 | 欠 | | |
| 14 | 3.342 | 欠 | 3.362 | 3.807 | 3.695 | 3.561 | 欠 | 3.151 | 欠 | 3.275 | 3.410 | 欠 | | |
| 15 | 3.332 | 欠 | 3.403 | 3.812 | 3.696 | 3.558 | 欠 | 3.149 | 3.399 | 3.271 | 3.415 | 欠 | | |
| 16 | 3.330 | 欠 | 3.469 | 3.817 | 3.694 | 3.553 | 欠 | 3.143 | 3.381 | 3.269 | 3.424 | 3.456* | | |
| 17 | 3.321 | 欠 | 3.527 | 3.830 | 3.699 | 3.548 | 欠 | 3.139 | 3.370 | 3.263 | 3.430 | 3.447 | | |
| 18 | 3.315 | 欠 | 3.562 | 3.826 | 3.700 | 3.545 | 欠 | 3.130 | 3.364 | 3.263 | 3.434 | 欠 | | |
| 19 | 3.316 | 欠 | 3.584 | 3.844 | 3.707 | 3.545 | 欠 | 3.123 | 3.353 | 3.277 | 3.442 | 欠 | | |
| 20 | 3.316 | 欠 | 3.617 | 3.862 | 3.715 | 3.543 | 欠 | 3.116 | 3.347 | 欠 | 欠 | 欠 | | |
| 21 | 3.314 | 欠 | 3.651 | 3.869 | 3.716 | 3.541 | 3.322* | 欠 | 3.335 | 欠 | 欠 | 欠 | | |
| 22 | 3.304 | 欠 | 3.686 | 3.884 | 3.694 | 3.533 | 3.319 | 欠 | 3.326 | 欠 | 欠 | 欠 | | |
| 23 | 3.301 | 欠 | 3.713 | 3.893 | 3.641 | 3.525 | 3.311 | 欠 | 3.319 | 欠 | 欠 | 欠 | 3.821 | |
| 24 | 3.303 | 欠 | 3.737 | 3.901 | 3.618 | 3.516 | 3.305 | 欠 | 3.311 | 3.389 | 欠 | 欠 | 3.810 | |
| 25 | 3.293 | 欠 | 3.762 | 3.895 | 3.605 | 3.509 | 3.297 | 欠 | 3.306 | 3.395 | 欠 | 欠 | 3.805 | |
| 26 | 3.295 | 欠 | 3.775 | 3.828 | 3.593 | 3.501 | 3.288 | 欠 | 3.299 | 3.402 | 欠 | 欠 | 3.801 | |
| 27 | 3.300 | 欠 | 3.787 | 3.800 | 3.581 | 3.492 | 3.279 | 欠 | 3.295 | 3.399 | 欠 | 欠 | 3.803 | |
| 28 | 3.287 | 欠 | 3.803 | 3.781 | 3.569 | 3.486 | 3.271 | 欠 | 3.298 | 3.404 | 欠 | 欠 | 3.817 | |
| 29 | 3.280 | | 3.810 | 3.762 | 3.560 | 3.482 | 3.263 | 欠 | 3.286 | 3.401 | 欠 | 欠 | 3.823 | |
| 30 | 3.274 | | 3.817 | 3.746 | 3.553 | 欠 | 3.257 | 欠 | 3.287 | 3.392 | 欠 | 欠 | 3.821 | |
| 31 | 3.277 | | 3.830 | | 3.543 | | 3.252 | 欠 | | 3.390 | | | 3.806 | |
| 平均 | 3.311* | 3.254* | 3.508* | 3.830 | 3.657 | 3.532* | 3.287* | 3.175* | 3.329* | 3.325* | 3.418* | | 3.746* | |

観測井水位・沈下量変化図

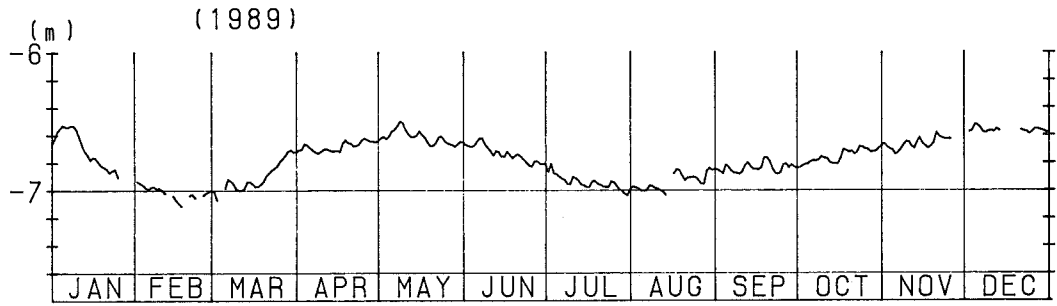
中島公園観測所

水位 井戸深度 30.2m



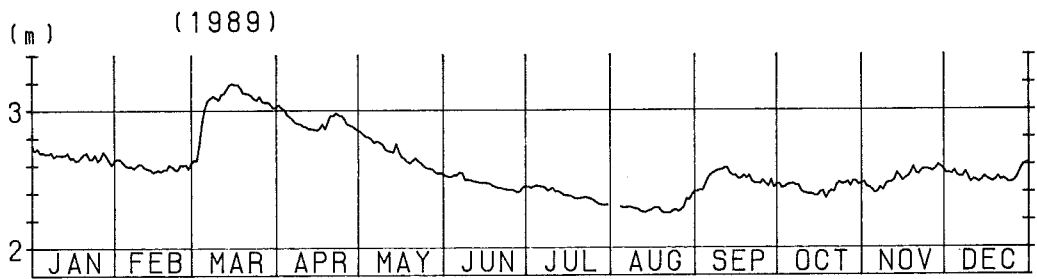
北発寒観測所

A水位 井戸深度 130m



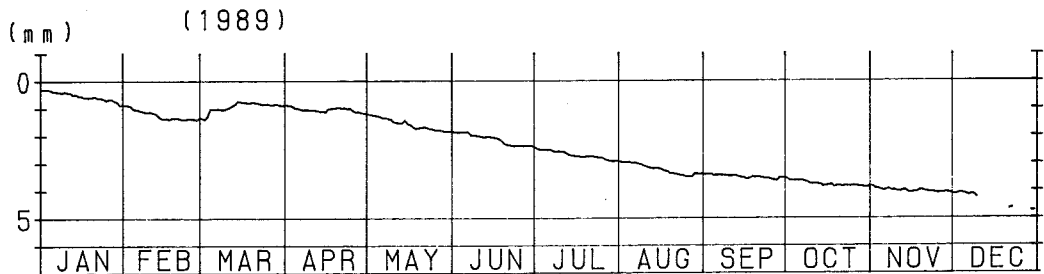
北発寒観測所

B水位 井戸深度 6m



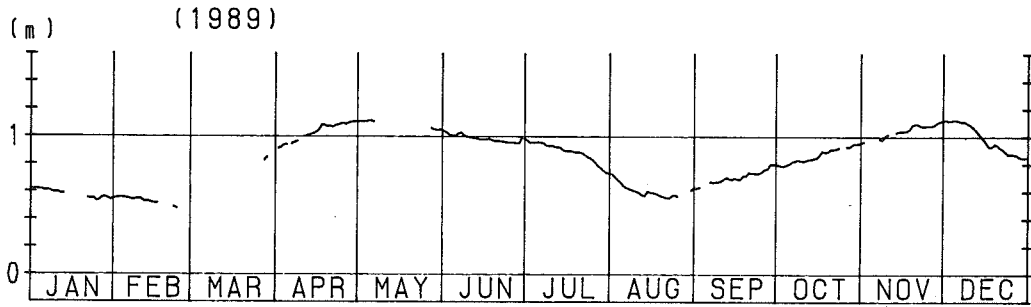
北発寒観測所

A沈下



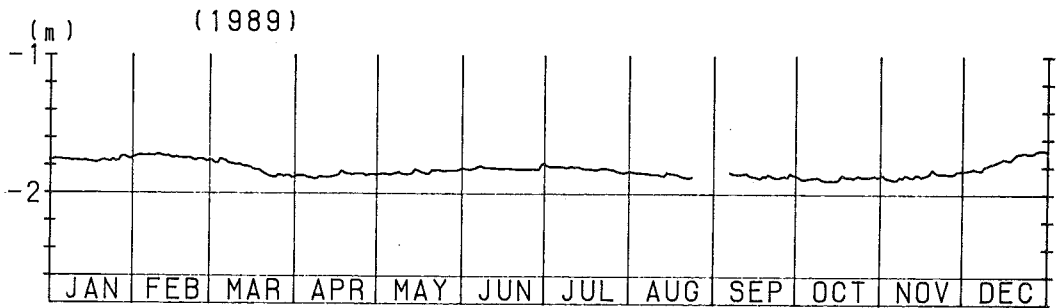
屯田観測所

A水位 井戸深度 82.5m



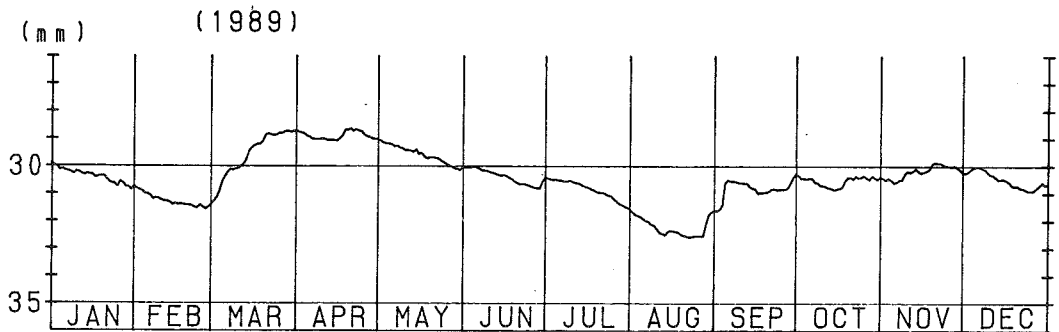
屯田観測所

B水位 井戸深度 130m



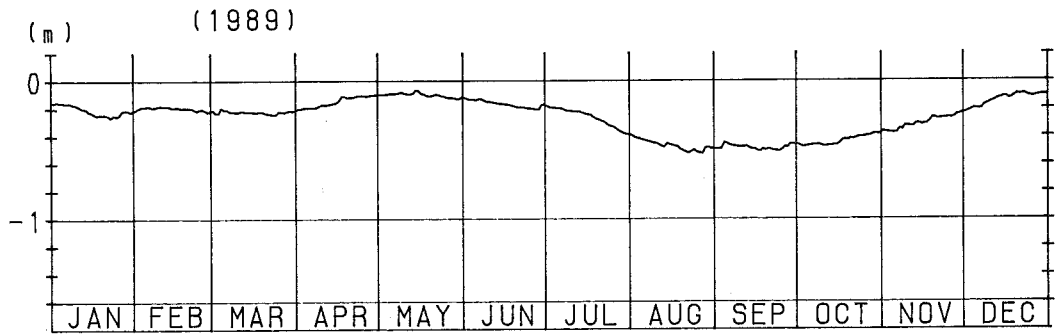
屯田観測所

A沈下



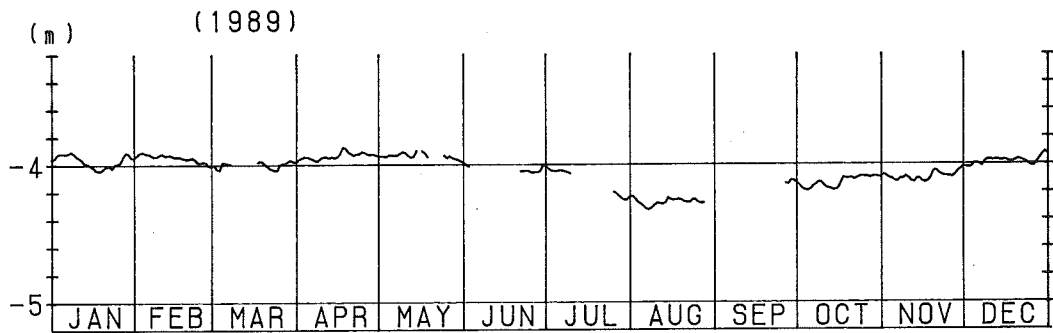
樽川観測所

A水位 井戸深度 87m



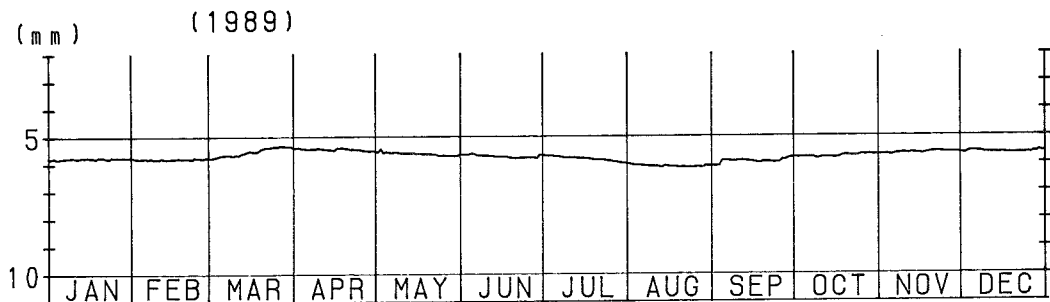
樽川観測所

B水位 井戸深度 200m



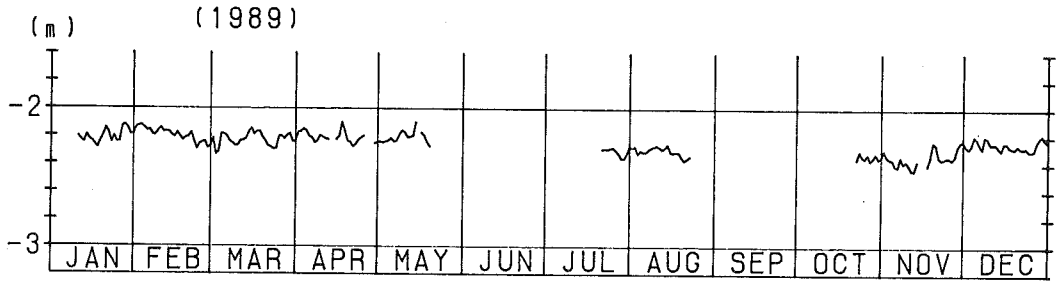
樽川観測所

A沈下



分部越観測所

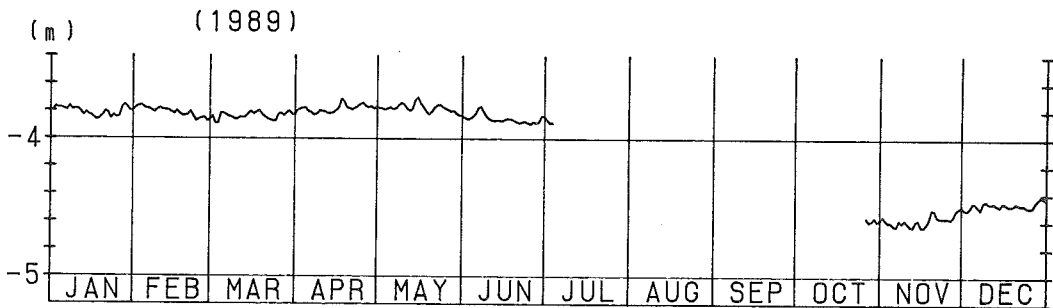
A水位 井戸深度 200m



注：7～10月に観測所移設工事を行ったため、10～12月は仮基準面からの水位。

石狩No.1 観測所

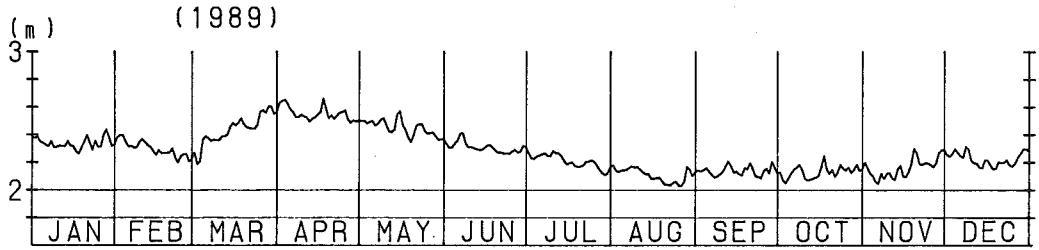
水位 井戸深度 200m



注：7～10月に観測所移設工事を行ったため、10～12月は仮基準面からの水位。

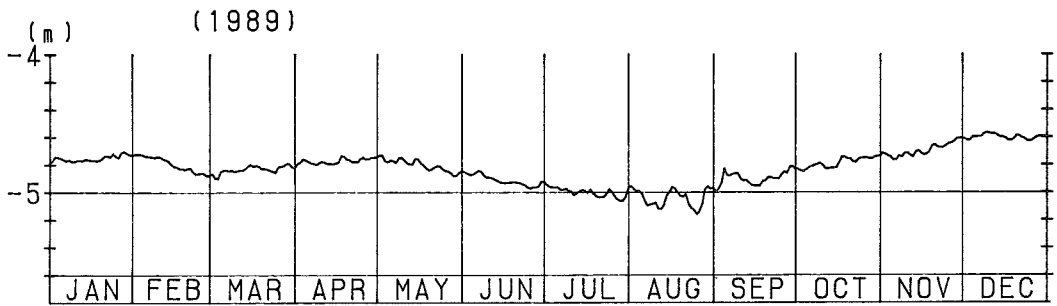
山口観測所

A水位 井戸深度 35m



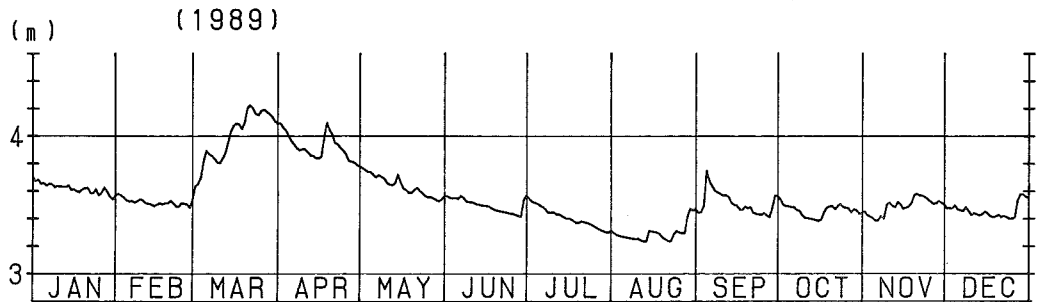
山口観測所

B水位 井戸深度 146.5m



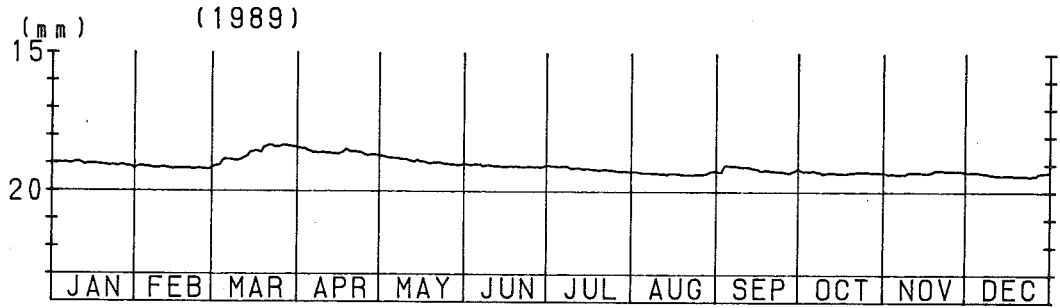
山口観測所

C水位 井戸深度 6m



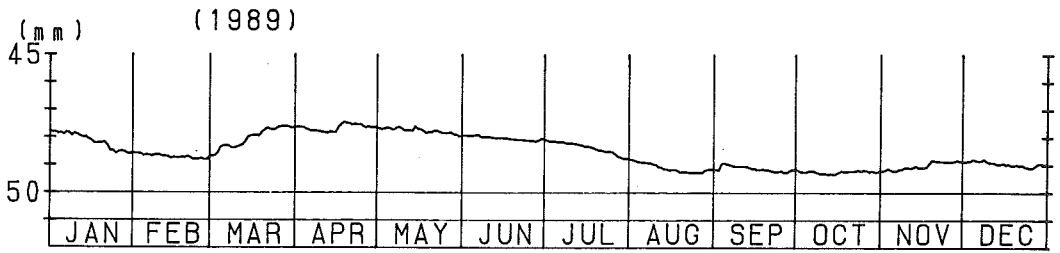
山口観測所

A 沈下



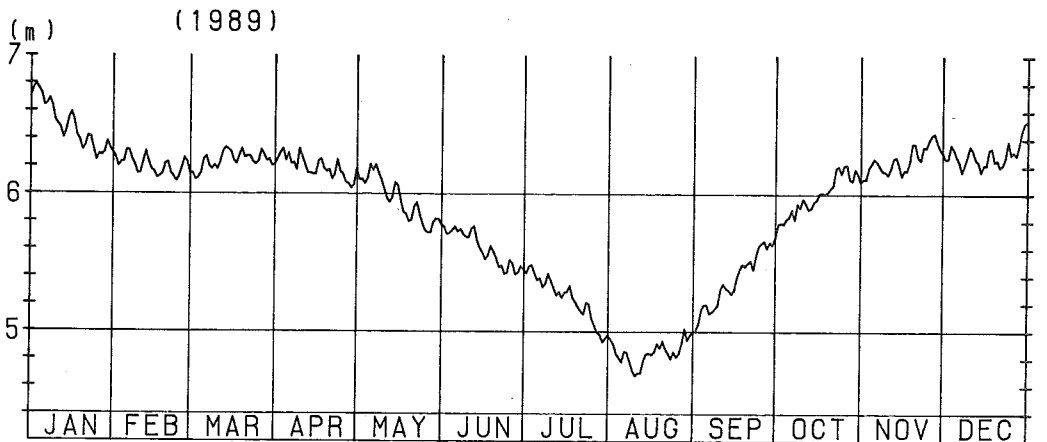
山口観測所

B 沈下



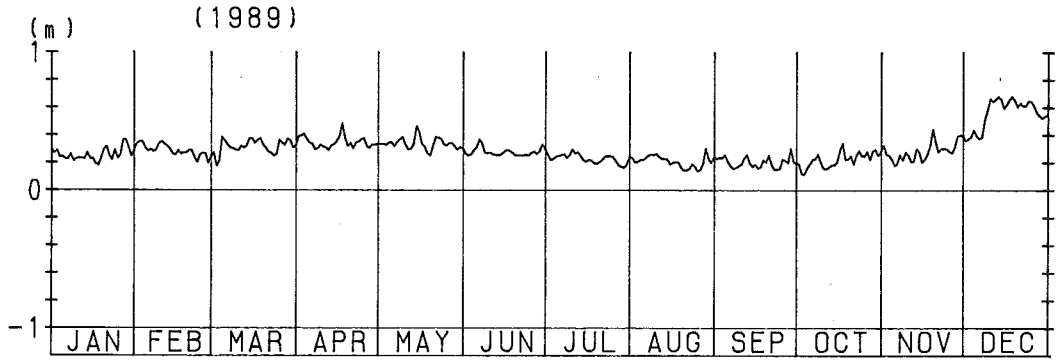
研究庁舎観測所

水位 井戸深度 120m



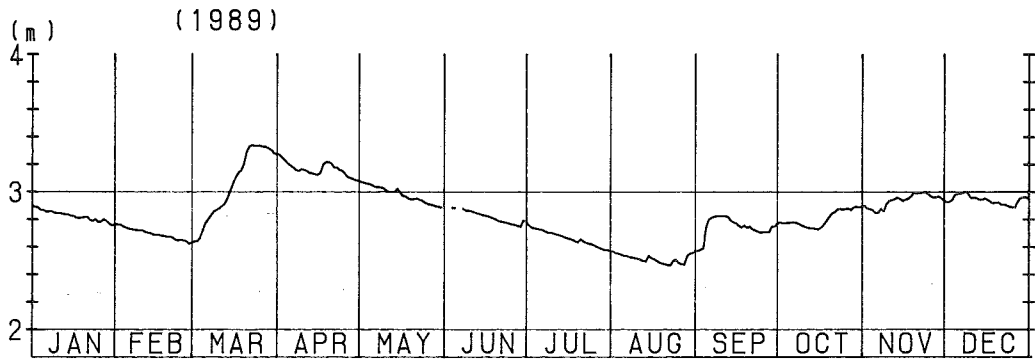
花畔観測所

A水位 井戸深度 58.7 m



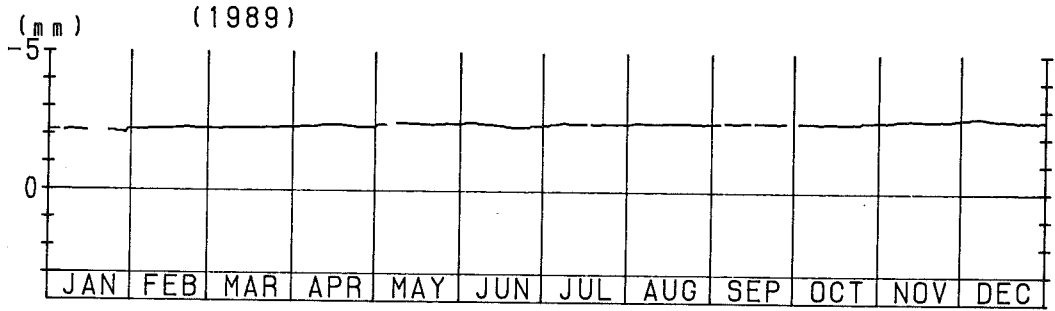
花畔観測所

B水位 井戸深度 12 m



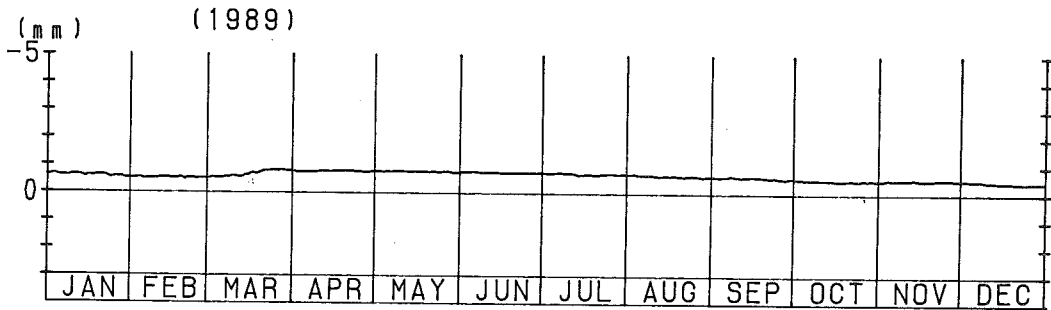
花畔観測所

A沈下



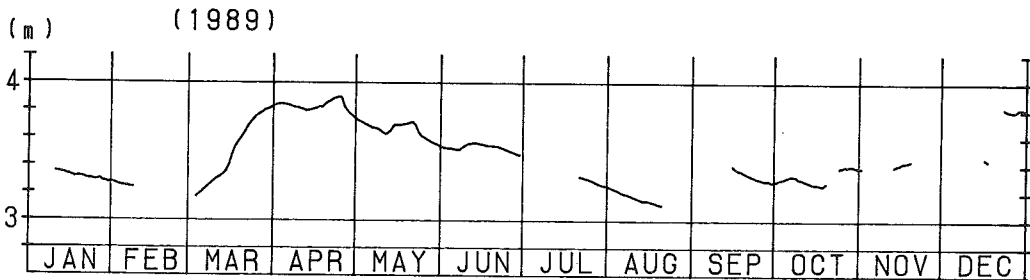
花畔観測所

B沈下



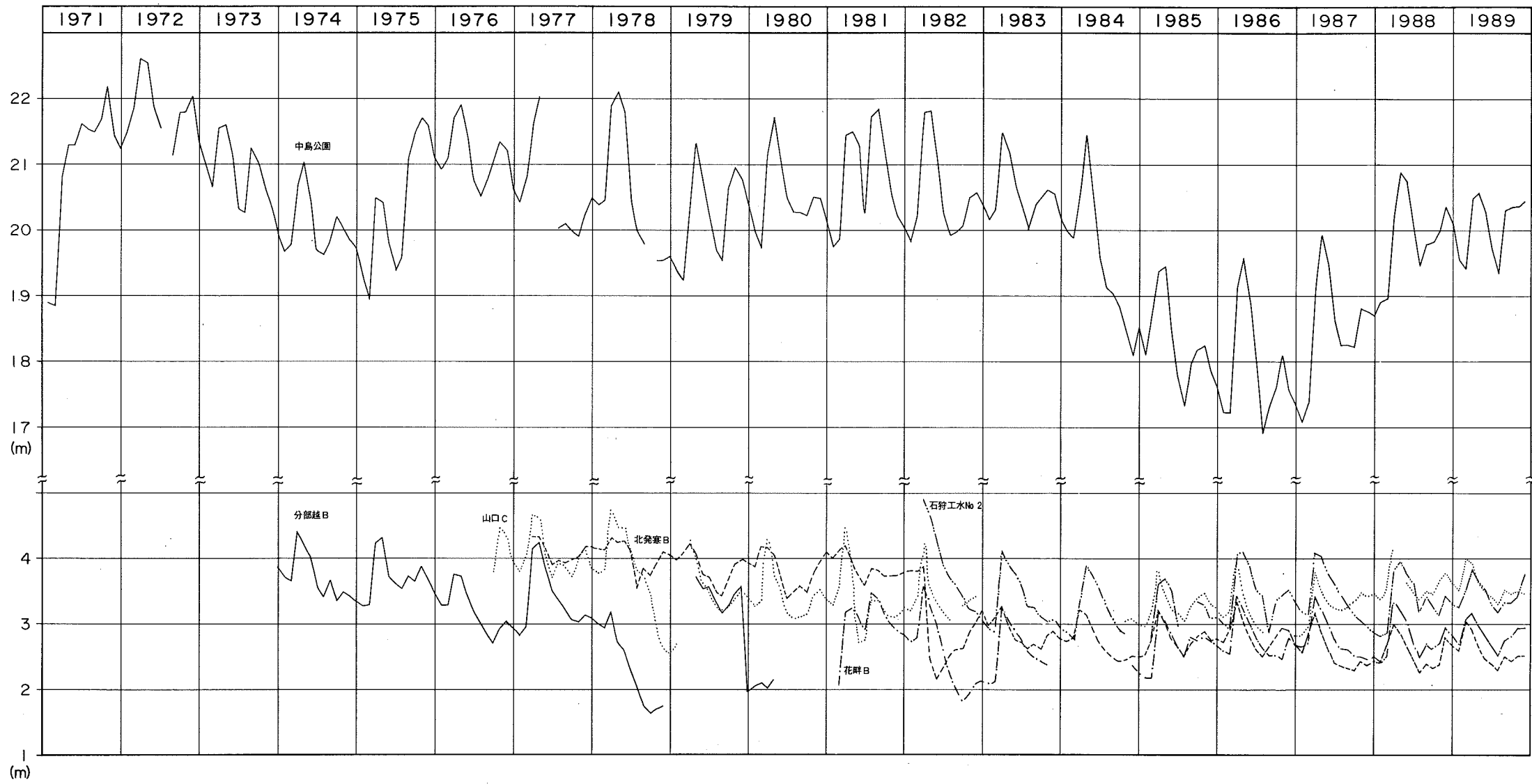
石狩工水No. 2 観測所

水位 井戸深度 3.5 m

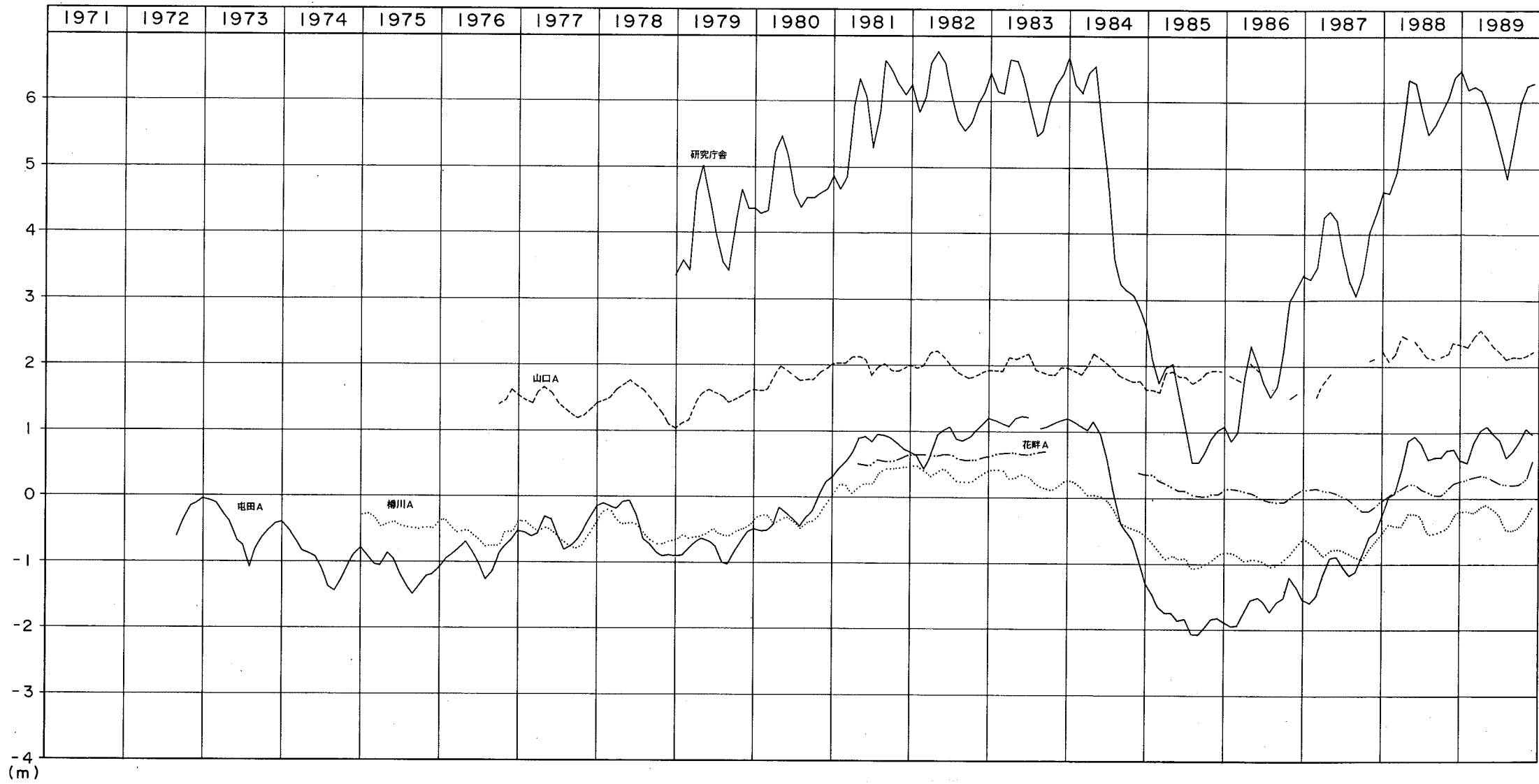


観測井水位・地盤沈下経年変化図

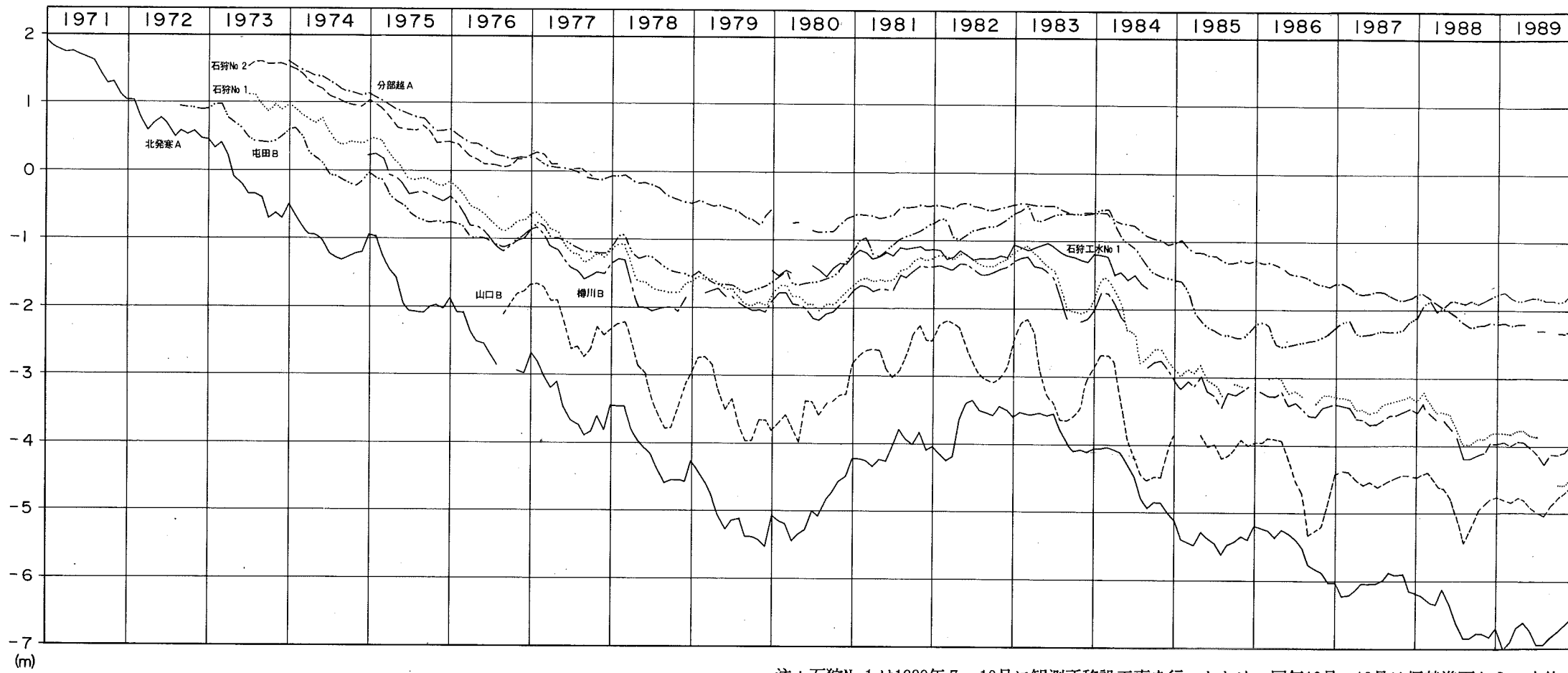
観測井水位経年変化図 (A)



観測井水位経年変化図 (B)

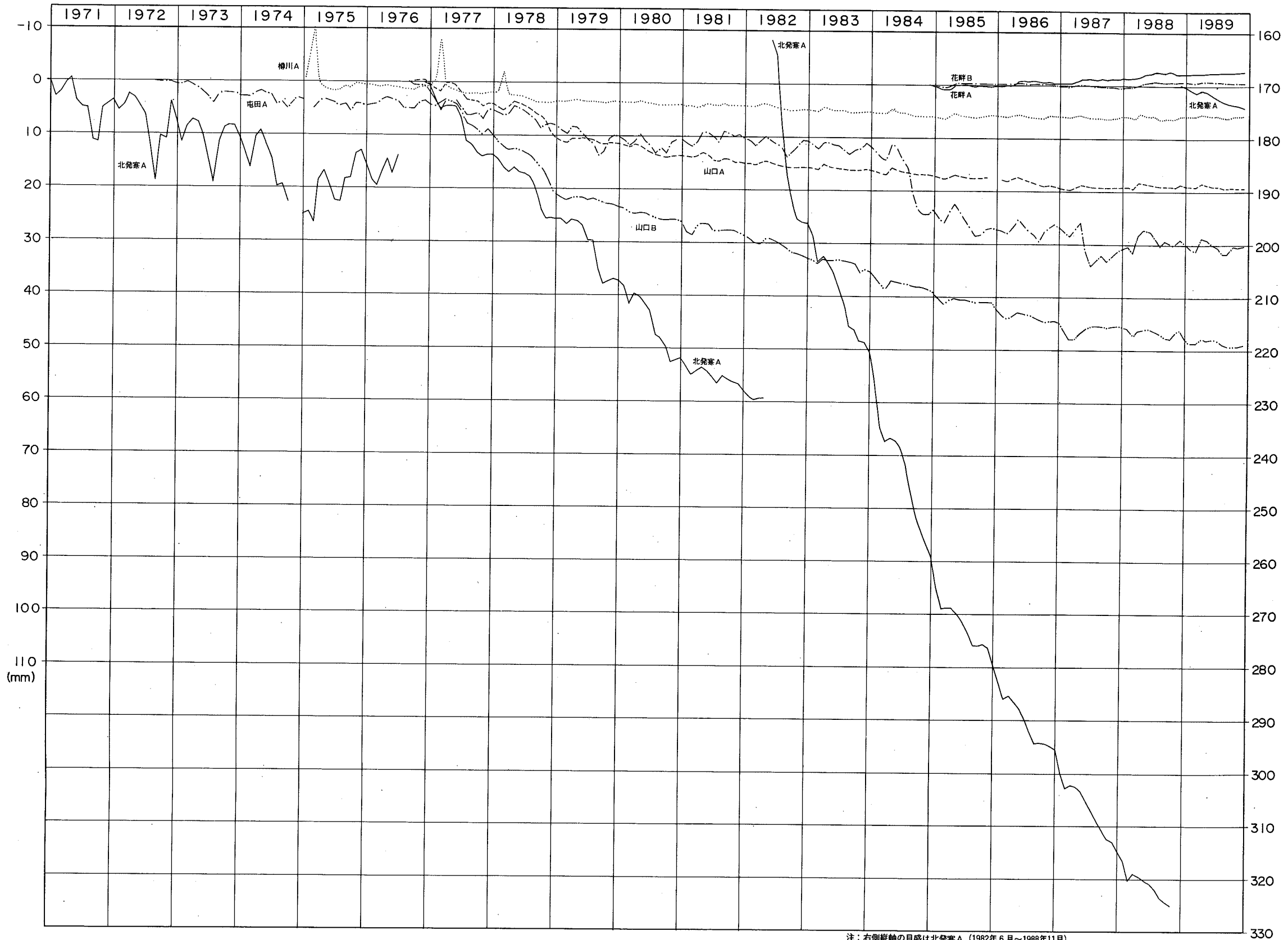


観測井水位経年変化図 (C)



注：石狩No.1は1989年7～10月に観測所移設工事を行ったため、同年10月～12月は仮基準面からの水位。

観測井地盤沈下経年変化図



注：右側縦軸の目盛は北発寒A (1982年6月～1988年11月)

地下水位 観測記録 XII [平成元年]
地盤沈下 札幌市北部～石狩地区

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