



验证报告

VERIFICATION REPORT

验证企业: 国药集团威奇达药业有限公司
验证地址: 山西省大同市云州区第一医药园区国药集团威奇达药业有限公司
验证对象: 头孢事业部110车间 冷库(三)
温控信息: $-22.0^{\circ}\text{C} \sim -18.0^{\circ}\text{C}$
验证性质: 使用前验证
验证环境: 低温
验证类别: 满载
验证项目: 存储空间温度的偏差、均匀度和波动度确认
温度自动监测系统测点的准确度测试
温控设施设备运行参数及使用状况测试
温度监测系统配置的测点终端安装位置确认
设备故障或外部供电中断的状况下温控库房保温性能及变化趋势确定
开门作业对温控库房温度分布影响的确认
本地区高温或低温等极端外部环境条件下的温度稳定性确认
风机除霜作业对温控库房温度分布影响的确认

验证实施日期:

签发:

验证标准和技术要求:

依照《WHO第961号技术报告附录9: 时间和温度敏感的药品的贮运指南技术补充之温控存贮区的确认》、《药品生产质量管理规范(2010年修订)》、《中华人民共和国药品管理法》、《中华人民共和国药品管理法实施条例》、《药品经营质量管理规范》(GSP)及附录五《验证管理》、《GB/T34399-2025医药产品冷链物流温控设施设备验证性能确认技术规范》。

适用范围:

冷库及全部温湿度调节设施。

签发日期:

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1 参与人员及培训记录

1.1 验证报告的起草、审核与批准

职责	姓名	职务	企业	签名
起草	赵一		请填写企业名称	
校对	钱二		请填写企业名称	
审核	孙三		请填写企业名称	
批准	李四		请填写企业名称	

1.2 验证参与人员

职责	姓名	职务	企业	签名
副组长	吴六		请填写企业名称	
组员	周五		请填写企业名称	

1.3 培训记录

2 验证目的

- 1、确定冷藏库的运行参数及性能，验证冷藏库在实际工况中是否满足冷链药品储存温度要求。
- 2、获得明确的冷藏库在实际工况运行中温度分布特性，依据温度分布特性确认库房冷点及热点所在位置，对温湿度监测系统日常监测点安装位置给予指导。
- 3、发现可能存在的冷藏库设施设备运行或使用不符合要求的状况、系统参数设定的不合理情况等偏差并进行调整和纠正，使相关设施设备及系统的运行状况符合冷链药品储存规定的要求。
- 4、验证冷藏库在断电或设备故障等特殊情况下冷藏库的保温性能，以建立应急措施。
- 5、验证测试开门作业对冷藏库内温度变化的影响，提供冷藏库日常操作指导。

3 验证依据

- 1、《药品经营质量管理规范》及附录五《验证管理》。
- 2、《医药产品冷链物流温控设施设备验证性能确认技术规范 GB/T 34399-2017》。
- 3、前述《验证方案》。
- 4、验证测试判断标准：
 - (1) 温度自动监测系统测点终端与验证用温度记录仪的差值应在 $\pm 1^{\circ}\text{C}$ 以内(冷冻库差值应在 $\pm 2^{\circ}\text{C}$ 以内)；
 - (2) 测点终端安装数量及位置符合要求。

4 本次验证所用主要测量设备

4.1 验证设备标准

1. 验证所使用的温度传感器应当经法定计量机构校准。
2. 验证所使用的温度传感器应当适用被验证设备的测量范围，测量范围在0℃~75℃之间，温度的最大允许误差为±0.5℃；测量范围在-30℃~0℃之间，温度的最大允许误差为±1.0℃。
3. 设备的校准证书复印件应当作为验证报告的必要附件。

4.2 验证设备描述

型号	品牌	测量范围	精度	分辨率	最小采集间隔
SVB-YZ-REC-02	世福宝	-30℃~75℃	±0.5℃ (≥0℃时)); ±1℃ (<0℃时)	0.1℃	1分钟
SVB-YZ-HOST	世福宝	-30℃~75℃	±0.5℃ (≥0℃时)); ±1℃ (<0℃时)	0.1℃	1分钟

4.3 验证设备清单

序号	型号	设备号	校准单位	校准证书	有效期	校准结果
1	SVB-YZ-REC-01	SF308010100212408088040803	济南市计量检定测试院	25001453974G1	2026-12-11	合格
2	SVB-YZ-REC-02	SF304070100022306148021803	济南市计量检定测试院	25001454015G1	2026-12-11	合格
3	SVB-YZ-REC-01	SF308010100212408088023803	济南市计量检定测试院	25001454003G1	2026-12-11	合格
4	SVB-YZ-REC-02	SF304070100022306148457803	济南市计量检定测试院	25001454060G1	2026-12-11	合格
5	SVB-YZ-REC-02	SF304070100022306088195803	济南市计量检定测试院	25001454104G1	2026-12-11	合格

序号	型号	设备号	校准单位	校准证书	有效期	校准结果
6	SVB-YZ-REC-01	SF308010100212408088041803	济南市计量检定测试院	25001463961G1	2026-12-11	合格
7	SVB-YZ-REC-02	SF304070100022306148491803	济南市计量检定测试院	25001454081G1	2026-12-11	合格
8	SVB-YZ-REC-02	SF304070100022306148543803	济南市计量检定测试院	25001454043G1	2026-12-11	合格
9	SVB-YZ-REC-01	SF308010100212408028030803	济南市计量检定测试院	25001463985G1	2026-12-11	合格
10	SVB-YZ-REC-02	SF304070100022306148107803	济南市计量检定测试院	25001454059G1	2026-12-11	合格
11	SVB-YZ-REC-01	SF308010100212408088039803	济南市计量检定测试院	25001463974G1	2026-12-11	合格
12	SVB-YZ-REC-02	SF304070100022306148246803	济南市计量检定测试院	25001454073G1	2026-12-11	合格
13	SVB-YZ-REC-01	SF308010100212408088009803	济南市计量检定测试院	25001453997G1	2026-12-11	合格
14	SVB-YZ-REC-02	SF304070100022306148135803	济南市计量检定测试院	25001474095G1	2026-12-11	合格
15	SVB-YZ-REC-01	SF308010100212408028006803	济南市计量检定测试院	25001464000G1	2026-12-11	合格
16	SVB-YZ-REC-02	SF304070100022306088024803	济南市计量检定测试院	25001474056G1	2026-12-11	合格

序号	型号	设备号	校准单位	校准证书	有效期	校准结果
17	SVB-YZ-REC-01	SF308010100212408088046803	济南市计量检定测试院	25001453970G1	2026-12-11	合格
18	SVB-YZ-REC-02	SF304070100022306148073803	济南市计量检定测试院	25001454071G1	2026-12-11	合格
19	SVB-YZ-REC-01	SF308010100212408088052803	济南市计量检定测试院	25001453986G1	2026-12-11	合格
20	SVB-YZ-REC-02	SF304070100022306148095803	济南市计量检定测试院	25001474053G1	2026-12-11	合格
21	SVB-YZ-REC-01	SF308010100212408028031803	济南市计量检定测试院	25001453998G1	2026-12-11	合格
22	SVB-YZ-REC-01	SF308010100212408028014803	济南市计量检定测试院	25001463964G1	2026-12-11	合格
23	SVB-YZ-REC-01	SF308010100212408088007803	济南市计量检定测试院	25001463983G1	2026-12-11	合格
24	SVB-YZ-REC-01	SF308010100212408088034803	济南市计量检定测试院	25001453976G1	2026-12-11	合格
25	SVB-YZ-REC-02	SF304070100022306088108803	济南市计量检定测试院	25001474061G1	2026-12-11	合格
26	SVB-YZ-REC-02	SF304070100022306088191803	济南市计量检定测试院	25001474059G1	2026-12-11	合格
27	SVB-YZ-REC-01	SF308010100212408088021803	济南市计量检定测试院	25001464001G1	2026-12-11	合格

序号	型号	设备号	校准单位	校准证书	有效期	校准结果
28	SVB-YZ-REC-02	SF304070100022306148507803	济南市计量检定测试院	25001494094G1	2026-12-11	合格
29	SVB-YZ-REC-02	SF304070100022306148630803	济南市计量检定测试院	25001494100G1	2026-12-11	合格
30	SVB-YZ-REC-02	SF304070100022306148124803	济南市计量检定测试院	25001474082G1	2026-12-11	合格
31	SVB-YZ-REC-02	SF304070100022306088041803	济南市计量检定测试院	25001474103G1	2026-12-11	合格
32	SVB-YZ-REC-01	SF308010100212408028017803	济南市计量检定测试院	25001463981G1	2026-12-11	合格
33	SVB-YZ-REC-01	SF308010100212408028037803	济南市计量检定测试院	25001463991G1	2026-12-11	合格
34	SVB-YZ-REC-02	SF304070100022306148200803	济南市计量检定测试院	25001494064G1	2026-12-11	合格
35	SVB-YZ-REC-02	SF304070100022306148606803	济南市计量检定测试院	25001494097G1	2026-12-11	合格
36	SVB-YZ-REC-01	SF308010100212408088035803	济南市计量检定测试院	25001463960G1	2026-12-11	合格
37	SVB-YZ-REC-02	SF304070100022306148131803	济南市计量检定测试院	25001474091G1	2026-12-11	合格
38	SVB-YZ-REC-02	SF304070100022306028048803	济南市计量检定测试院	25001474048G1	2026-12-11	合格

序号	型号	设备号	校准单位	校准证书	有效期	校准结果
39	SVB-YZ-REC-01	SF308010100212408028026803	济南市计量检定测试院	25001463999G1	2026-12-11	合格
40	SVB-YZ-REC-01	SF308010100212408028012803	济南市计量检定测试院	25001463996G1	2026-12-11	合格
41	SVB-YZ-REC-02	SF304070100022306088175803	济南市计量检定测试院	25001454103G1	2026-12-11	合格
42	SVB-YZ-REC-02	SF304070100022306148129803	济南市计量检定测试院	25001474084G1	2026-12-11	合格
43	SVB-YZ-REC-02	SF304070100022306148165803	济南市计量检定测试院	25001494099G1	2026-12-11	合格
44	SVB-YZ-REC-01	SF308010100212408088013803	济南市计量检定测试院	25001464002G1	2026-12-11	合格

5 验证对象

5.1 对象说明

名称	头孢事业部110车间 冷库(三)
长宽高(mm)	6450*4687*3500
面积(平米)	
验证范围	-22.0℃~-18.0℃
验证状态	使用前

5.2 验证项目

序号	验证项目
1	存储空间温度的偏差、均匀度和波动度确认
2	温度自动监测系统测点的准确度测试

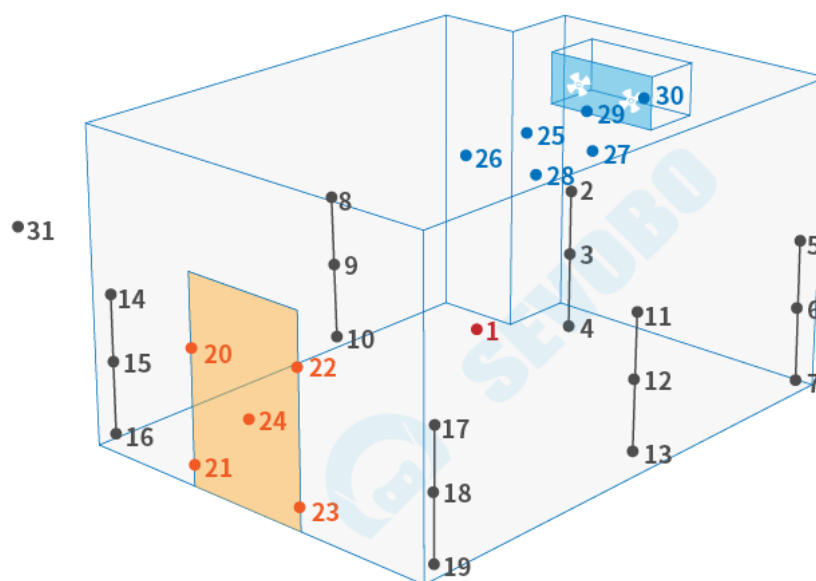
序号	验证项目
3	温控设施设备运行参数及使用状况测试
4	温度监测系统配置的测点终端安装位置确认
5	设备故障或外部供电中断的状况下温控库房保温性能及变化趋势确定
6	开门作业对温控库房温度分布影响的确认
7	本地区高温或低温等极端外部环境条件下的温度稳定性确认
8	风机除霜作业对温控库房温度分布影响的确认
9	温控设施设备运行参数及使用状况测试-多组风机轮换

5.3 布点依据

- 1、在仓库内一次性同步布点，确保各测点采集数据的同步、有效；
- 2、每个库房中均匀性布点数量不应少于9个，仓间各角及中心位置均应布置测点，每两个测点的水平间距不应大于5m，垂直间距不应超过2m。
- 3、库房每个作业出入口及风机出风口区域至少布置5个测点，库房中每组货架或建筑结构的风向死角位置至少应布置3个测点。
- 4、特殊区域应布设温度监测点，包括空调或制冷设备回风位置、温度自动监测系统测点终端安装位置、门、窗、灯等位置。
- 5、温度监测点均应布设在货位上或货物可能存放的位置。

5.4 测点布置

5.4.1 布点示意图



布点示意图

5.4.2 布点位置详表

序号	名称	位置编码	类型	设备型号	设备编号
1	中心点1	A01	中心点	SVB-YZ- REC-01	SF308010100212408088040803
2	均匀布点 2	A02	均匀布点	SVB-YZ- REC-02	SF304070100022306148021803
3	均匀布点 3	A03	均匀布点	SVB-YZ- REC-01	SF308010100212408088023803
4	均匀布点 4	A04	均匀布点	SVB-YZ- REC-02	SF304070100022306148457803
5	均匀布点 5	A05	均匀布点	SVB-YZ- REC-02	SF304070100022306088195803
6	均匀布点 6	A06	均匀布点	SVB-YZ- REC-01	SF308010100212408088041803
7	均匀布点 7	A07	均匀布点	SVB-YZ- REC-02	SF304070100022306148491803
8	均匀布点 8	A08	均匀布点	SVB-YZ- REC-02	SF304070100022306148543803
9	均匀布点 9	A09	均匀布点	SVB-YZ- REC-01	SF308010100212408028030803
10	均匀布点 10	A10	均匀布点	SVB-YZ- REC-02	SF304070100022306148107803
11	均匀布点 11	A11	均匀布点	SVB-YZ- REC-01	SF308010100212408088039803
12	均匀布点 12	A12	均匀布点	SVB-YZ- REC-02	SF304070100022306148246803
13	均匀布点 13	A13	均匀布点	SVB-YZ- REC-01	SF308010100212408088009803
14	均匀布点 14	A14	均匀布点	SVB-YZ- REC-02	SF304070100022306148135803
15	均匀布点 15	A15	均匀布点	SVB-YZ- REC-01	SF308010100212408028006803

序号	名称	位置编码	类型	设备型号	设备编号
16	均匀布点 16	A16	均匀布点	SVB-YZ- REC-02	SF304070100022306088024803
17	均匀布点 17	A17	均匀布点	SVB-YZ- REC-01	SF308010100212408088046803
18	均匀布点 18	A18	均匀布点	SVB-YZ- REC-02	SF304070100022306148073803
19	均匀布点 19	A19	均匀布点	SVB-YZ- REC-01	SF308010100212408088052803
20	门20	A20	门	SVB-YZ- REC-02	SF304070100022306148095803
21	门21	A21	门	SVB-YZ- REC-01	SF308010100212408028031803
22	门22	A22	门	SVB-YZ- REC-01	SF308010100212408028014803
23	门23	A23	门	SVB-YZ- REC-01	SF308010100212408088007803
24	门24	A24	门	SVB-YZ- REC-01	SF308010100212408088034803
25	风机2出 风口25	A25	风机	SVB-YZ- REC-02	SF304070100022306088108803
26	风机2出 风口26	A26	风机	SVB-YZ- REC-02	SF304070100022306088191803
27	风机2出 风口27	A27	风机	SVB-YZ- REC-01	SF308010100212408088021803
28	风机2出 风口28	A28	风机	SVB-YZ- REC-02	SF304070100022306148507803
29	风机2出 风口29	A29	风机	SVB-YZ- REC-02	SF304070100022306148630803
30	风机2回 风口30	A30	风机	SVB-YZ- REC-02	SF304070100022306148124803
31	风机1出 风口31	A31	风机	SVB-YZ- REC-02	SF304070100022306088041803
32	风机1出 风口32	A32	风机	SVB-YZ- REC-01	SF308010100212408028017803

序号	名称	位置编码	类型	设备型号	设备编号
33	风机1出 风口33	A33	风机	SVB-YZ- REC-01	SF308010100212408028037803
34	风机1出 风口34	A34	风机	SVB-YZ- REC-02	SF304070100022306148200803
35	风机1出 风口35	A35	风机	SVB-YZ- REC-02	SF304070100022306148606803
36	风机1回 风口36	A36	风机	SVB-YZ- REC-01	SF308010100212408088035803
37	房顶37	A37	风向死角	SVB-YZ- REC-02	SF304070100022306148131803
38	房顶38	A38	风向死角	SVB-YZ- REC-02	SF304070100022306028048803
39	地面39	A39	风向死角	SVB-YZ- REC-01	SF308010100212408028026803
40	地面40	A40	风向死角	SVB-YZ- REC-01	SF308010100212408028012803
41	环境温度 41	A41	环境外温	SVB-YZ- REC-02	SF304070100022306088175803
42	监测探头 44	A44	监测位置	SVB-YZ- REC-02	SF304070100022306148129803
43	监测探头 45	A45	监测位置	SVB-YZ- REC-02	SF304070100022306148165803
44	仓库外温 50	A50	仓库外温	SVB-YZ- REC-01	SF308010100212408088013803

5.4.3 现场照片

6 验证实施前准备及检查

6.1 验证对象运行确认

序号	检查项目	要求	结果
1	控制箱电源接通和关闭	制冷系统启动(停止)设备运行正常	合格
2	温度控制器及温湿度自动监测系统	a、可在允许范围内设定，自动调控温度 b、正常运行，可显示实际温度 c、能在规定的记录时段内正常记录温湿度变化的情况 d、温度异常时，自动报警系统开始工作	合格
3	照明灯	灯的开关正常	合格
4	密封门	开、关灵活，密封	合格

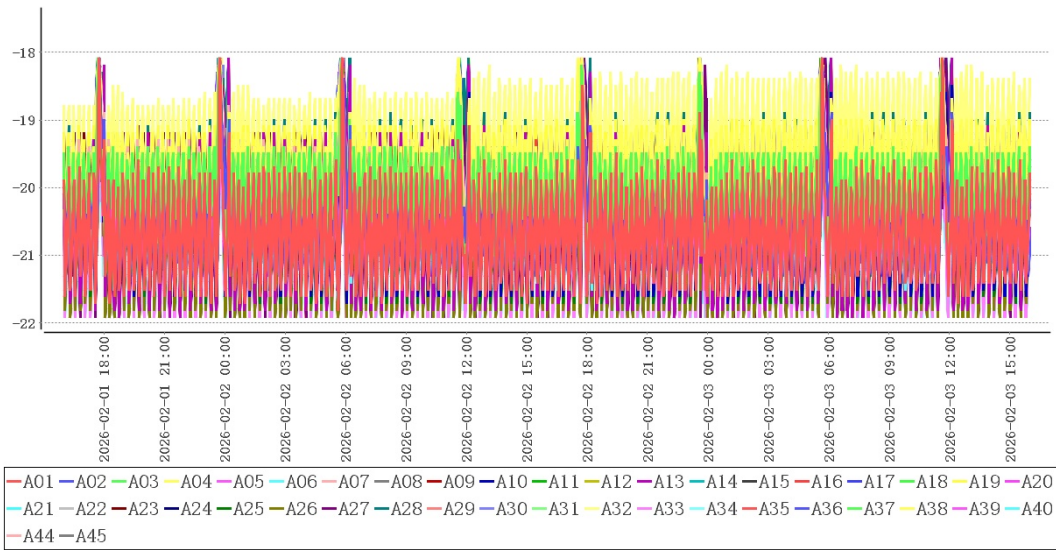
6.2 验证前准备及检查

序号	操作内容	操作标准	结果
1	制冷压缩机安装	a、安装正确，无缺损 b、制冷效果正常	合格
2	冷风机安装	a、安装正确，无缺损 b、制冷效果正常	合格
3	冷库门板	a、密封性能良好、开关灵活 b、安装牢固，无缝隙	合格
4	地板	安装牢固，无缝隙	合格

7 验证项目实施

7.1 温控设施设备运行参数及使用状况测试—参数测试

风机名称	设定启动	设定停止	检测启动	检测停止	结果
风机01					
风机02					

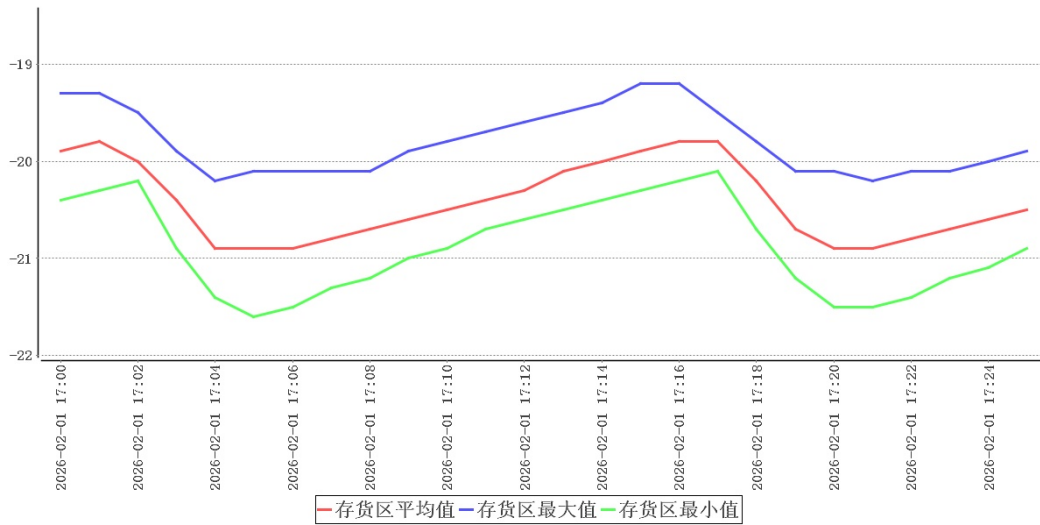


测点	最大值	最小值	平均值
A01	-18.1	-21.8	-20.6
A02	-18.2	-21.5	-20.5
A03	-18.1	-21.2	-20.1
A04	-18.1	-21.0	-19.8
A05	-18.1	-21.6	-20.6
A06	-18.1	-21.7	-20.6
A07	-18.1	-20.7	-19.8
A08	-18.1	-21.5	-20.7
A09	-18.1	-21.4	-20.5
A10	-18.1	-21.7	-20.5
A11	-18.1	-21.0	-20.5
A12	-18.1	-21.3	-20.6
A13	-18.1	-21.9	-20.3
A14	-18.1	-21.4	-20.6
A15	-18.1	-21.5	-20.5
A16	-18.1	-21.6	-20.3
A17	-18.1	-21.3	-20.4
A18	-18.1	-21.3	-20.4
A19	-18.1	-20.9	-19.7
A20	-18.1	-21.6	-20.6

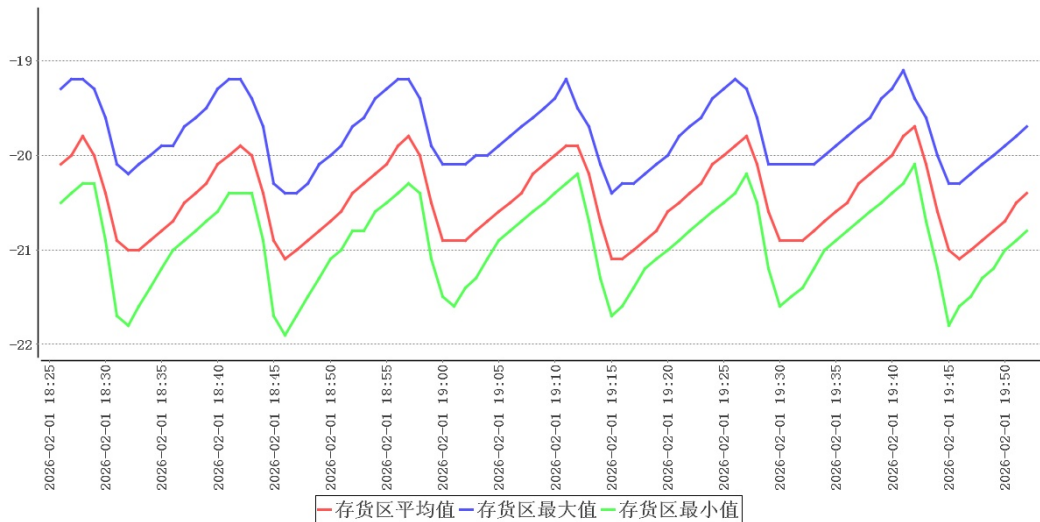
测点	最大值	最小值	平均值
A21	-18.1	-21.7	-20.3
A22	-18.1	-21.0	-19.8
A23	-18.1	-21.0	-19.9
A24	-18.1	-21.1	-20.2
A25	-18.1	-21.7	-20.5
A26	-18.1	-21.9	-20.6
A27	-18.1	-21.9	-20.5
A28	-18.1	-21.8	-20.1
A29	-18.1	-21.9	-20.6
A30	-18.1	-21.6	-20.7
A31	-18.1	-21.0	-19.9
A32	-18.1	-20.7	-19.2
A33	-18.1	-21.9	-20.3
A34	-18.1	-21.9	-20.4
A35	-18.1	-21.8	-20.5
A36	-18.1	-21.4	-20.5
A37	-18.1	-21.2	-20.0
A38	-18.1	-20.8	-19.5
A39	-18.1	-20.7	-19.9
A40	-18.1	-21.1	-20.2
A44	-18.1	-21.8	-20.5
A45	-18.1	-21.2	-20.3

在当前设置的工作条件下，库内温度在-21.9℃~-18.1℃之间，符合-22.0℃~-18.0℃验证标准。

7.2 温控设施设备运行参数及使用状况测试--多组风机轮换



风机01启动时温度分布曲线



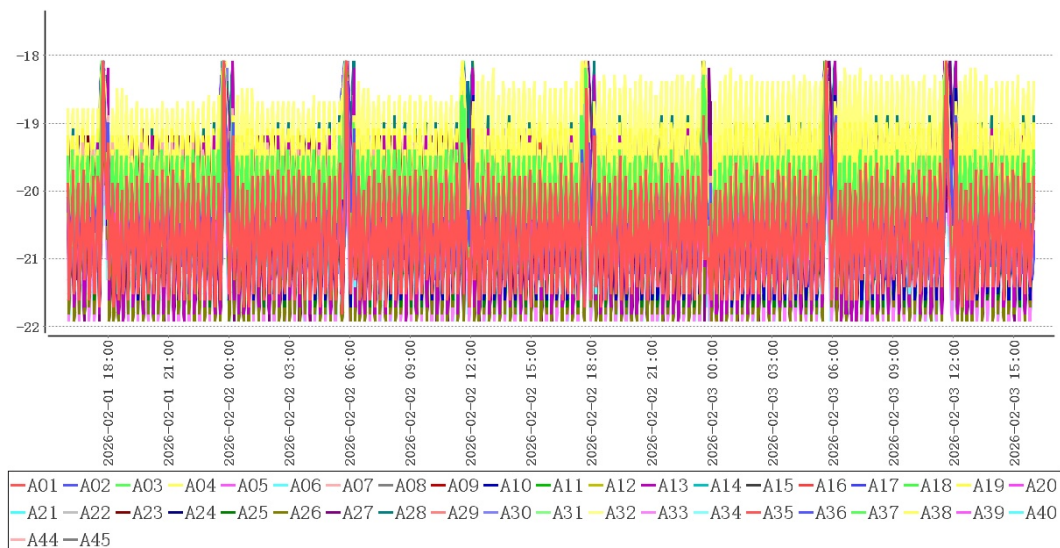
风机02启动时温度分布曲线

检测项目	时间	规范要求	检测结果	结论
风机01启动	2026-02-01 17:00:00~2026-02-01 17:25:00	全部测点温度范围 (-22.0~-18.0) °C	-21.6°C~-19.2°C	合格
风机02启动	2026-02-01 18:26:00~2026-02-01 19:52:00	全部测点温度范围 (-22.0~-18.0) °C	-21.9°C~-19.1°C	合格

从上表可以看出：当风机01开启时，库内温度最高点为-19.2°C，库内温度最低点为-21.6°C，符合-22.0°C~-18.0°C验证标准。当风机02开启时，库内温度最高点为-19.1°C，库内温度最低点为-21.9°C，符合-22.0°C~-18.0°C验证标准。

7.3 温度分布特性测试

7.3.1 温度分布特性



(1)、温度偏差

温度偏差指温控设施设备稳定状态下, 测试空间的中心点在规定时间内多次实测温度的平均值与温度设定值的差值, 计算公式: $\Delta t_d = t_d - t_o$

式中:

Δt_d ——温度偏差, 单位为摄氏度(°C);

t_d ——温度设定值, 单位为摄氏度(°C);

t_o ——中心点在规定时间内n 次测量平均值, 单位为摄氏度(°C)

点位类型	测点	设定值(t_d)	平均值(t_o)
中心点	A01	-20.0	-20.6

温度偏差 $\Delta t_d = t_d - t_o = 0.6^\circ\text{C}$

(2)、均匀度

温度均匀度指温控设施设备稳定状态下, 测试空间各测点在规定时间内每次测量中实测最高温度与最低温度之差的算术平均值, 计算公式: $\Delta t_u = \sum (t_{i\max} - t_{i\min}) / n$

式中:

Δt_u ——温度均匀度, 单位为摄氏度(°C);

$t_{i\max}$ ——各测点在规定时间内第i次测得的最高温度, 单位为摄氏度(°C);

$t_{i\min}$ ——各测点在规定时间内第i次测得的最低温度, 单位为摄氏度(°C)。

n ——测量次数。

各测点最大值和最小值见附录A：各测点极值表

均匀度 $\Delta t_u = \Sigma (t_{imax} - t_{imin}) / n = 2.0^\circ\text{C}$

(3)、波动度

温度波动度指温控设施设备稳定状态下, 测试空间的中心点在规定时间内多次实测最高温度与最低温度之差的一半, 计算公式: $\Delta t_f = \pm (t_{omax} - t_{omin}) / 2$

式中:

Δt_f ——温度波动度, 单位为摄氏度($^\circ\text{C}$);

t_{omax} ——中心点在规定时间内n 次测量中的最高温度, 单位为摄氏度($^\circ\text{C}$);

t_{omin} ——中心点在规定时间内n 次测量中的最低温度, 单位为摄氏度($^\circ\text{C}$)。

点位类型	测点	最大值(t_{omax})	最小值(t_{omin})
中心点	A01	-18.1	-21.8

波动度 $\Delta t_f = \pm (t_{omax} - t_{omin}) / 2 = 1.8^\circ\text{C}$

(4)、结论综述

点位类型	测点	最大值	最小值	平均值
中心点	A01	-18.1	-21.8	-20.6
均匀布点	A02	-18.2	-21.5	-20.5
	A03	-18.1	-21.2	-20.1
	A04	-18.1	-21.0	-19.8
	A05	-18.1	-21.6	-20.6
	A06	-18.1	-21.7	-20.6
	A07	-18.1	-20.7	-19.8
	A08	-18.1	-21.5	-20.7
	A09	-18.1	-21.4	-20.5
	A10	-18.1	-21.7	-20.5
	A11	-18.1	-21.0	-20.5
	A12	-18.1	-21.3	-20.6
	A13	-18.1	-21.9	-20.3
	A14	-18.1	-21.4	-20.6

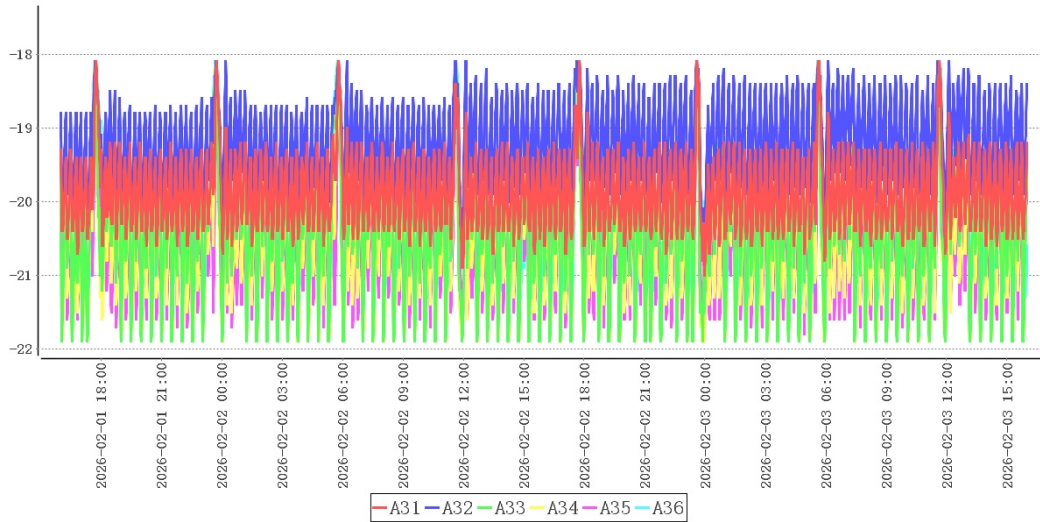
	A15	-18.1	-21.5	-20.5
	A16	-18.1	-21.6	-20.3
	A17	-18.1	-21.3	-20.4
	A18	-18.1	-21.3	-20.4
	A19	-18.1	-20.9	-19.7
出入口	A20	-18.1	-21.6	-20.6
	A21	-18.1	-21.7	-20.3
	A22	-18.1	-21.0	-19.8
	A23	-18.1	-21.0	-19.9
	A24	-18.1	-21.1	-20.2
风机	A25	-18.1	-21.7	-20.5
	A26	-18.1	-21.9	-20.6
	A27	-18.1	-21.9	-20.5
	A28	-18.1	-21.8	-20.1
	A29	-18.1	-21.9	-20.6
	A30	-18.1	-21.6	-20.7
	A31	-18.1	-21.0	-19.9
	A32	-18.1	-20.7	-19.2
	A33	-18.1	-21.9	-20.3
	A34	-18.1	-21.9	-20.4
	A35	-18.1	-21.8	-20.5
	A36	-18.1	-21.4	-20.5
风向死角	A37	-18.1	-21.2	-20.0
	A38	-18.1	-20.8	-19.5
	A39	-18.1	-20.7	-19.9
	A40	-18.1	-21.1	-20.2
环境外温	A41	17.9	-12.4	-2.4
监测位置	A44	-18.1	-21.8	-20.5
	A45	-18.1	-21.2	-20.3
仓库外温	A50	17.3	0.4	11.8

在库房空调或制冷系统温度控制参数符合设定要求、库房温度符合设定范围后

，数据有效持续采集时间为48小时0分钟，在环境温度处于-12.4℃~17.9℃情况下，库内各测点温度在-21.9℃ (A13, A26, A27, A29, A33, A34)~-

7.3.2 风机

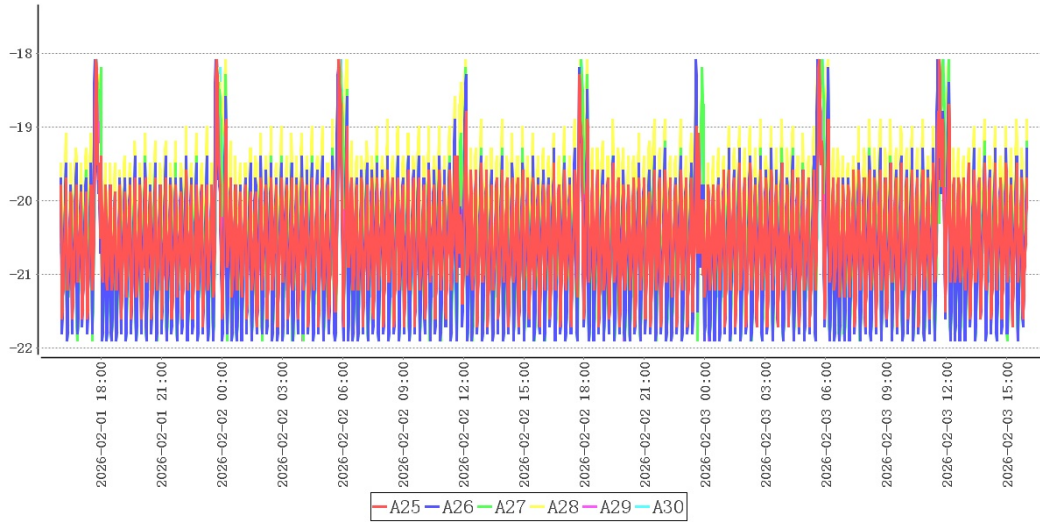
7.3.2.1 风机01



测点	最大值	最小值	平均值
A31	-18.1	-21.0	-19.9
A32	-18.1	-20.7	-19.2
A33	-18.1	-21.9	-20.3
A34	-18.1	-21.9	-20.4
A35	-18.1	-21.8	-20.5
A36	-18.1	-21.4	-20.5

检测项目	规范要求	检测结果	结论
风机01附近温度均匀性	全部测点温度范围(-22.0~18.0)℃	-21.9~18.1℃	合格

7.3.2.2 风机02



测点	最大值	最小值	平均值
A25	-18.1	-21.7	-20.5
A26	-18.1	-21.9	-20.6
A27	-18.1	-21.9	-20.5
A28	-18.1	-21.8	-20.1
A29	-18.1	-21.9	-20.6
A30	-18.1	-21.6	-20.7

检测项目	规范要求	检测结果	结论
风机02附近温度均匀性	全部测点温度范围(-22.0~-18.0)℃	-21.9~-18.1℃	合格

7.3.3 出入口



测点	最大值	最小值	平均值
A20	-18.1	-21.6	-20.6
A21	-18.1	-21.7	-20.3
A22	-18.1	-21.0	-19.8
A23	-18.1	-21.0	-19.9
A24	-18.1	-21.1	-20.2

检测项目	规范要求	检测结果	结论
门01附近温度均匀性	全部测点温度范围(-22.0~-18.0)℃	-21.7~-18.1℃	合格

7.3.4 风向死角



测点	最大值	最小值	平均值
A37	-18.1	-21.2	-20.0
A38	-18.1	-20.8	-19.5
A39	-18.1	-20.7	-19.9
A40	-18.1	-21.1	-20.2

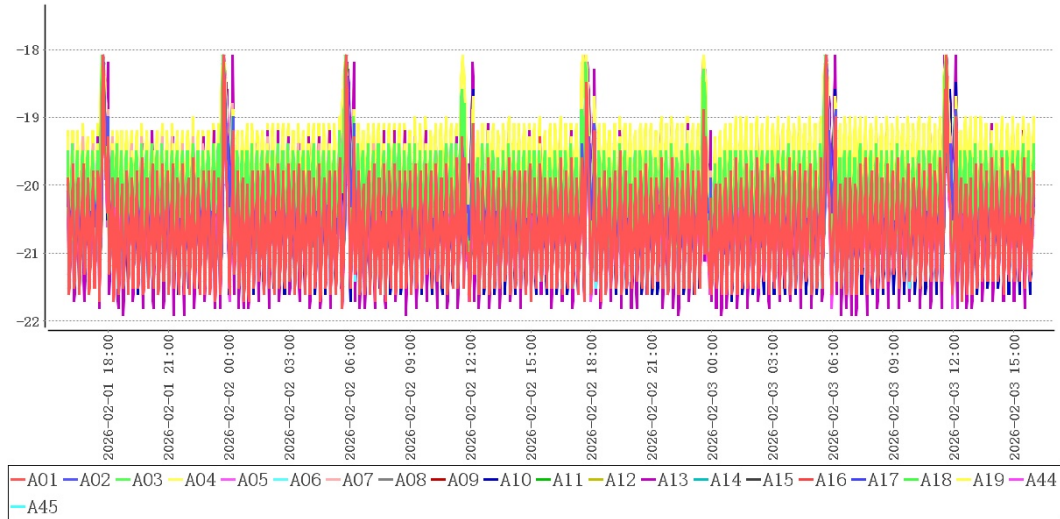
检测项目	规范要求	检测结果	结论
风向死角附近温度均匀性	全部测点温度范围(-22.0~-18.0)℃	-21.2~-18.1℃	合格

7.3.5 适宜存放的安全位置及区域

根据以上分析，该冷库中除个别温度易超标区域不适合存放药品外，其他区域皆可放置。

不适合存放药品的区域有：风机出口下沿下方0.3m以上空间, 门口1米空间范围内, 风向死角范围内。

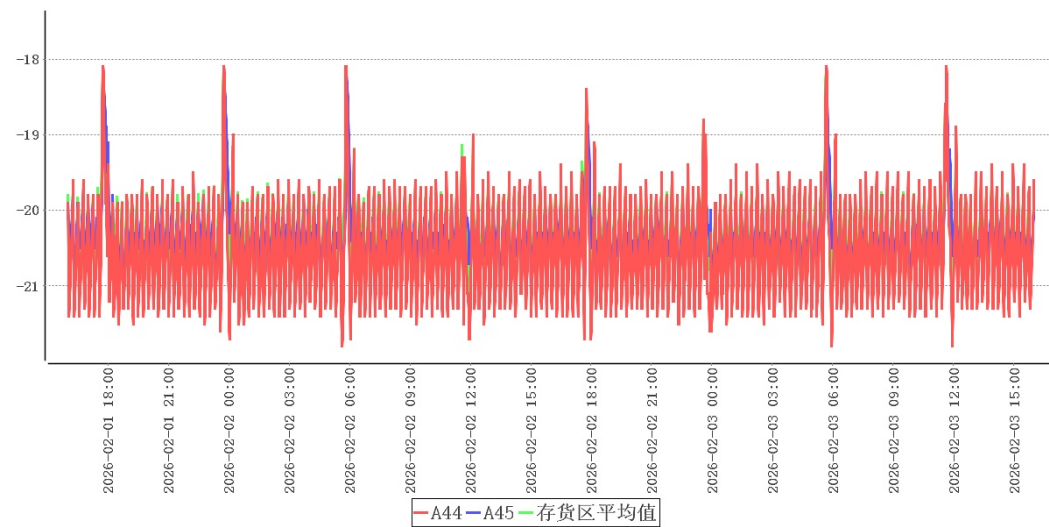
7.4 温度自动监测设备安装位置确认



结合温度分布特性可得出以下表格：

冷点热点表

测点	最大值	最小值	平均值
A19(热点)	-18.1	-20.9	-19.7
A08(冷点)	-18.1	-21.5	-20.7
货区点位	-18.1	-21.9	-20.4



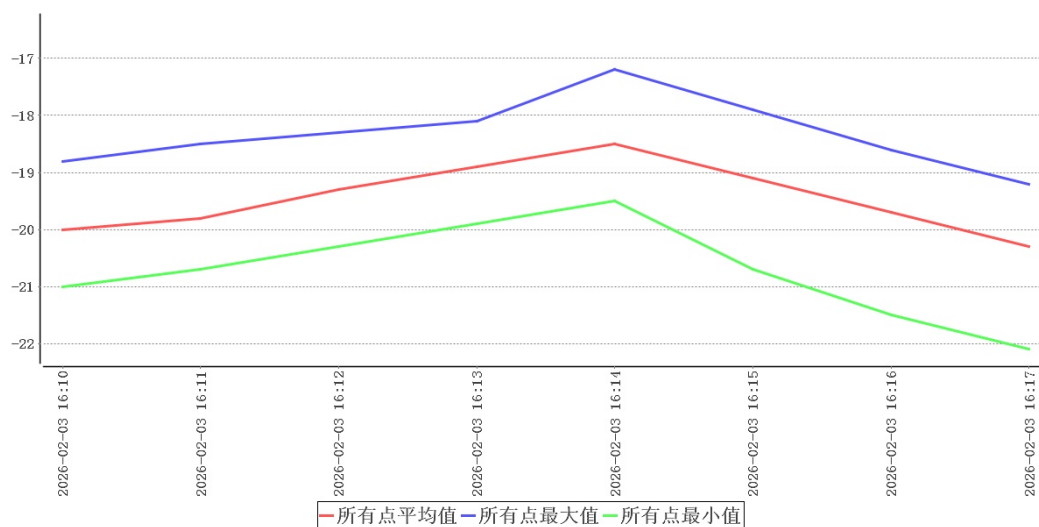
监测点位表

测点	最大值	最小值	平均值
A44	-18.1	-21.8	-20.5
A45	-18.1	-21.2	-20.3

结合库内高温敏感区、低温敏感区分析，库内热点为A19，库内冷点为A08。当前监测点位A45温度与热点温度在±2.0℃准确度误差之内，符合监测点位设置要求。当前监测点位A44温度与冷点温度在±2.0℃准确度误差之内，符合监测点位设置要求。

7.5 开关门验证

1、第1次开门测试

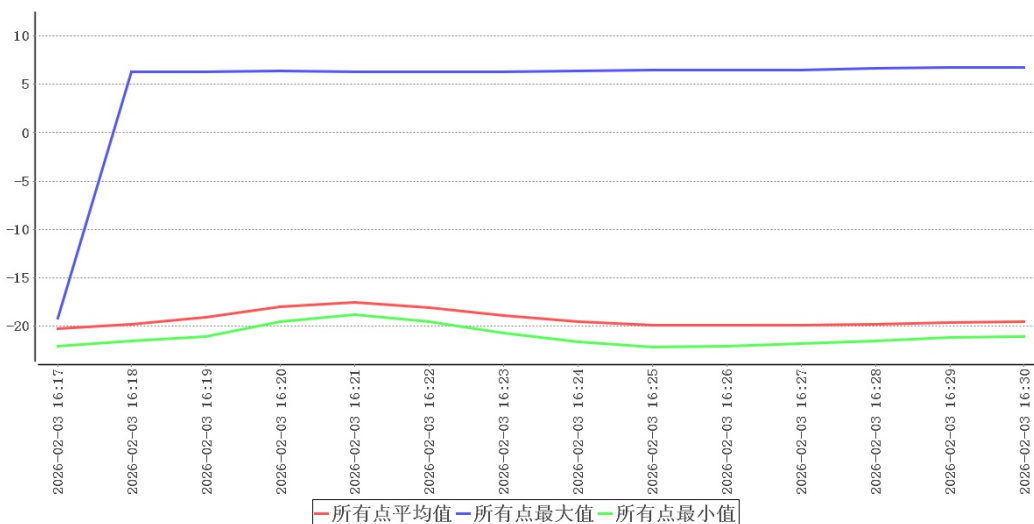


时间	所有点最大值	所有点最小值	所有点平均值	冷库外温	环境外温	备注
2026-02-03 16:10:00	-18.8	-21.0	-20.0	14.4	6.8	开门
2026-02-03 16:11:00	-18.5	-20.7	-19.8	14.2	6.7	
2026-02-03 16:12:00	-18.3	-20.3	-19.3	14.1	6.7	
2026-02-03 16:13:00	-18.1	-19.9	-18.9	14.3	6.6	
2026-02-03 16:14:00	-17.2	-19.5	-18.5	14.5	6.6	关门

门01在环境温度处于6.6℃~6.8℃情况下，点位A23于2026-02-03 16:14:00最先

达到-17.2℃，测试结束，满足不超出温控范围-22.0℃~-18.0℃的开门时长为4分钟。

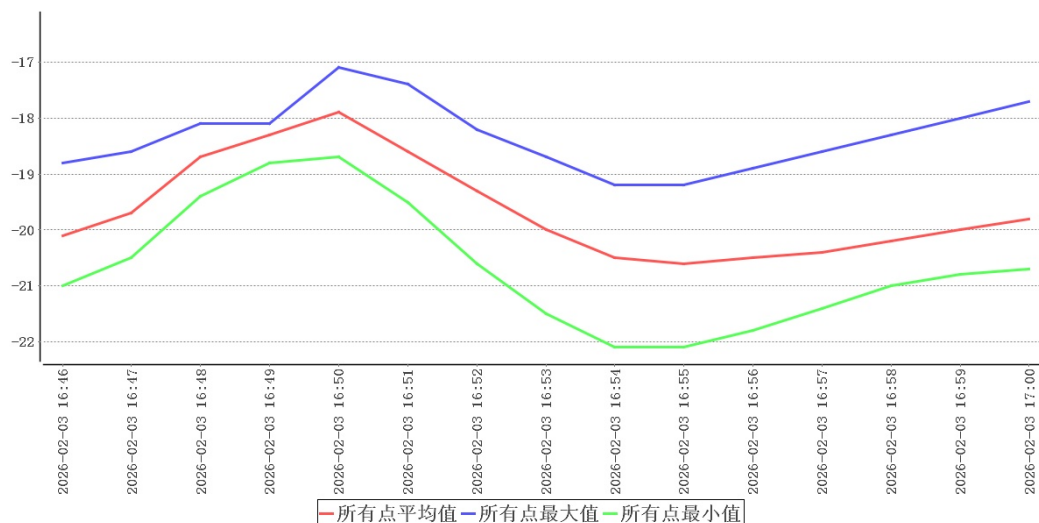
2、第2次开门测试



时间	所有点最大值	所有点最小值	所有点平均值	冷库外温	环境外温	备注
2026-02-03 16:17:00	-19.2	-22.1	-20.3	14.7	6.4	开门
2026-02-03 16:18:00	6.3	-21.5	-19.8	14.8	-21.1	
2026-02-03 16:19:00	6.3	-21.1	-19.1	14.6	-20.5	
2026-02-03 16:20:00	6.4	-19.5	-18.0	14.5	-18.6	关门

门01在环境温度处于-21.1℃~6.4℃情况下，点位A45于2026-02-03 16:18:00最先达到6.3℃，测试结束，满足不超出温控范围-22.0℃~-18.0℃的开门时长为1分钟。

3、第3次开门测试



时间	所有点最大值	所有点最小值	所有点平均值	冷库外温	环境外温	备注
2026-02-03 16:46:00	-18.8	-21.0	-20.1	15.9	5.7	开门
2026-02-03 16:47:00	-18.6	-20.5	-19.7	15.2	5.7	
2026-02-03 16:48:00	-18.1	-19.4	-18.7	14.7	5.7	
2026-02-03 16:49:00	-18.1	-18.8	-18.3	14.4	5.7	
2026-02-03 16:50:00	-17.1	-18.7	-17.9	14.4	5.7	关门

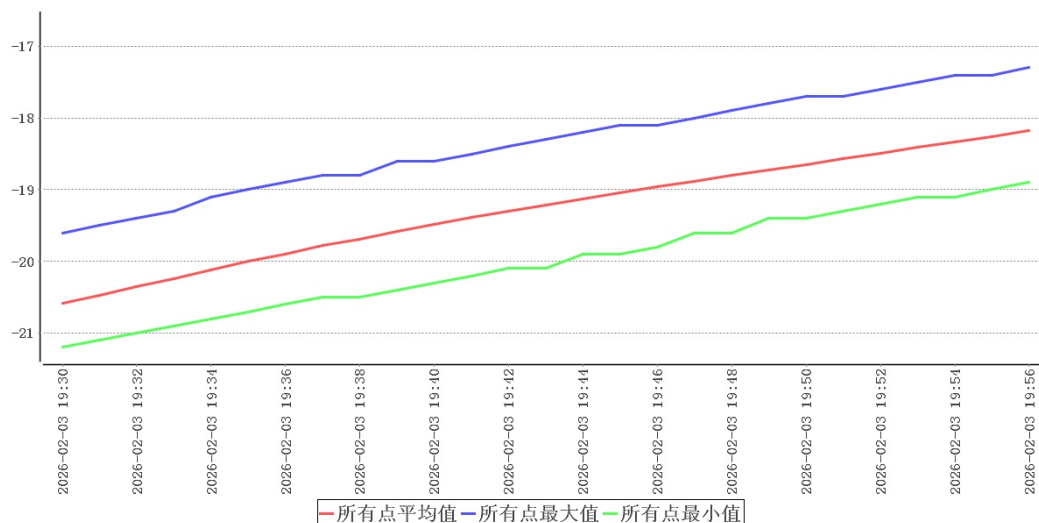
门01在环境温度处于5.7℃~5.7℃情况下，点位A32于2026-02-03 16:50:00最先达到-17.1℃，测试结束，满足不超出温控范围-22.0℃~-18.0℃的开门时长为4分钟。

4、 门01开门测试总结

门01在环境温度-21.1℃~6.8℃情况下，不同作业条件下进行开门测试，满足不超出温控范围-22.0℃~-18.0℃的开门时长分别为4/1/4分钟，综合考虑，实际操作规程建议开门时间不应超过3分钟。

7.6 设备故障或外部供电中断的状况下保温性能及变化趋势

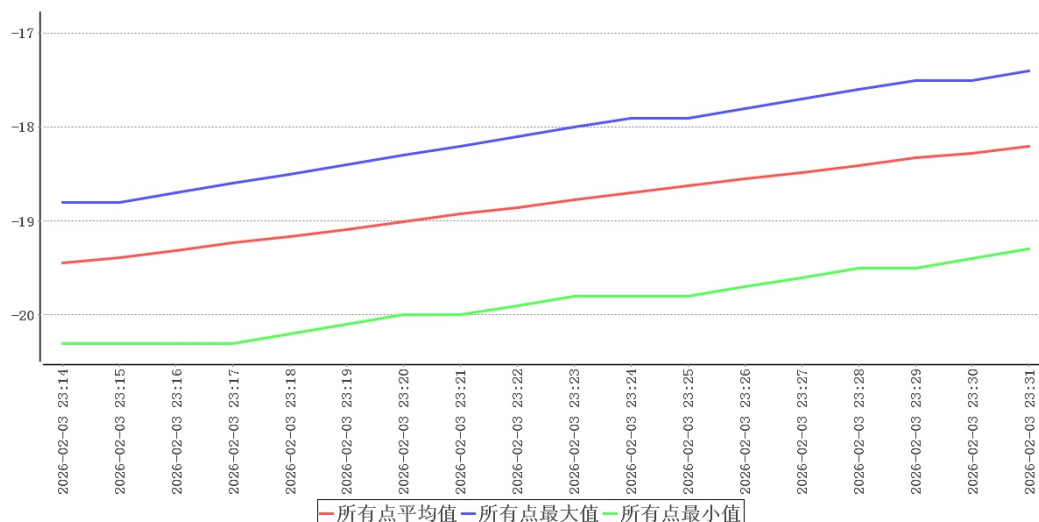
1、 第1次断电测试



断电开始时间	2026-02-03 19:20:00	断电结束时间	2026-02-03 20:35:00
断电测试期间最高温度	-17.3°C	断电测试期间最低温度	-21.2°C
升温最快的测点	A26	升温速率	0.123°C/分
平均外温	2.0°C	推断超温时限	24分钟
最先超温(-18.0°C)测点	A32	超温时间点	2026-02-03 19:47:00

在环境温度处于1.9°C~2.1°C情况下,从2026-02-03 19:20:00断电开始变化最快的点为A26,升温速率为0.123°C/分,据此计算该点到达超温(-18.0°C)时长为24分钟;同时点位A32于2026-02-03 19:47:00最先达到-18.0°C,综合考虑满足不超出温控范围-22.0°C~-18.0°C的断电保温时长27分钟。

2、第2次断电测试



断电开始时间	2026-02-03 23:00:00	断电结束时间	2026-02-03 23:24:00
断电测试期间最高温度	-17.9℃	断电测试期间最低温度	-20.3℃
升温最快的测点	A34	升温速率	0.110℃/分
平均外温	-0.5℃	推断超温时限	26分钟
最先超温(-18.0℃)测点	A32	超温时间点	2026-02-03 23:23:00

在环境温度处于-0.6℃~-0.4℃情况下,从2026-02-03 23:00:00断电开始变化最快的点为A34,升温速率为0.110℃/分,据此计算该点到达超温(-18.0℃)时长为26分钟;同时点位A32于2026-02-03 23:23:00最先达到-18.0℃,综合考虑满足不超出温控范围-22.0℃~-18.0℃的断电保温时长23分钟。

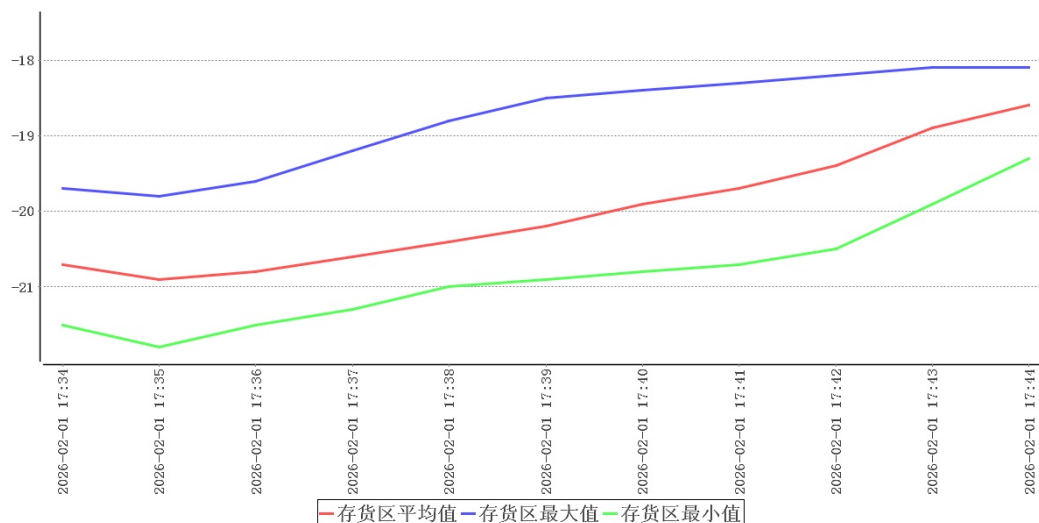
3、断电测试总结

在环境温度-0.6℃~2.0℃情况下,不同作业条件下进行断电测试,基于变化速率最快点位温度变化推算时间分别为27/23分钟,综合考虑,实际操作规程建议断电时间不应超过25分钟,如果不能及时恢复供电,需要对库内药品做转库处理。

7.7 风机除霜

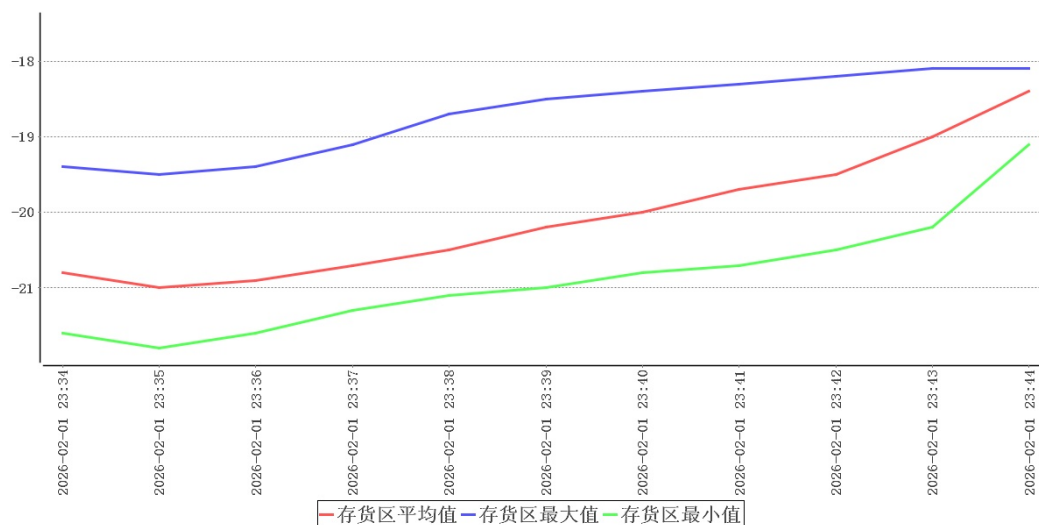
风机名称	风机编号	化霜间隔 参数(Hrs)	化霜时间 参数 (mins)	滴水时间 参数 (mins)	化霜停止 温度 (℃)
风机01	F01	-	-	-	-
风机02	F02	-	-	-	-

7.7.1 风机01



本次验证共持续0小时10分钟，在环境温度处于-0.5℃~-0.2℃情况下，各测点温度在-21.9℃~-18.1℃之间，未超出温控范围-22.0℃~-18.0℃。

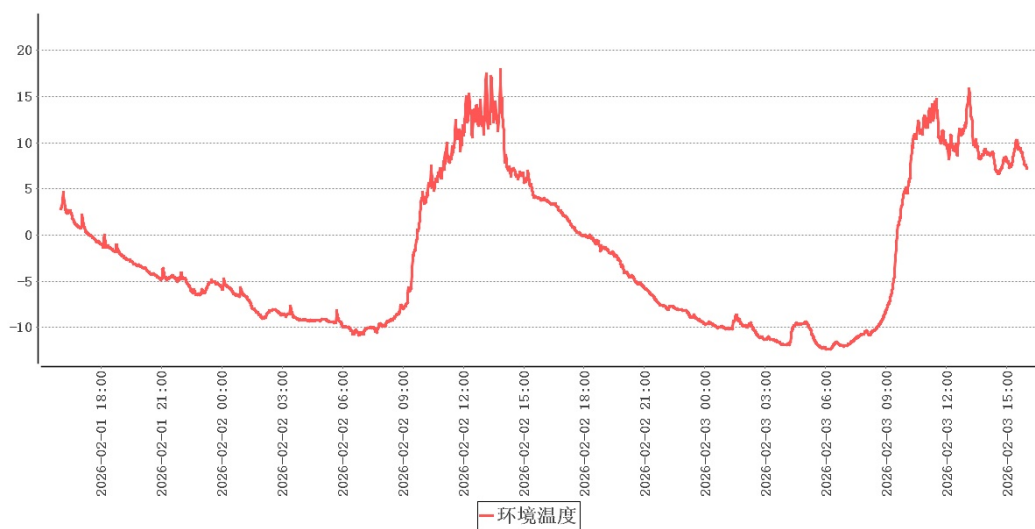
7.7.2 风机02



本次验证共持续0小时10分钟，在环境温度处于-5.3℃~-5.0℃情况下，各测点温度在-21.9℃~-18.1℃之间，未超出温控范围-22.0℃~-18.0℃。

7.8 本地区的高温或低温等极端外部环境条件下保温效果评估

外部温度	最大值	最小值	采集次数	平均值
仓库室外温度	17.9	-12.4	2880次	-2.4
库外室内温度	17.3	0.4	2880次	11.8



本次验证实施期间库外温度-12.4℃~17.9℃，各项验证结论可视为极寒验证，建议在本地区的高温环境下再次实施极热验证。

8 偏差处理

无

9 验证结论

序号	项目名称	结论
1	本地区高温或低温等极端外部环境条件下的温度稳定性确认	本次验证实施期间库外温度-12.4℃~17.9℃，各项验证结论可视为极

序号	项目名称	结论
2	温度监测系统配置的测点终端安装位置确认	结合库内高温敏感区、低温敏感区分析，库内热点为A19，库内冷点为A08。当前监测点位A45温度与热点±2.0℃准确度误差之内，符合

序号	项目名称	结论
3	温控设施设备运行参数及使用状况测试	在当前设置的工作条件下，库内温度在-21.9℃~-18.1℃

序号	项目名称	结论
5	温控设施设备运行参数及使用状况测试 - 多组风机轮换	当风机01开启时，库内温度最高点为-19.2℃，库内温度最低点为-20.2℃。

序号	项目名称	结论
6	温控设施设备运行参数及使用状况测试 - 多组风机轮换	当风机02开启时，库内温度最高点为-19.1℃，库内温度最低点为-20.1℃。

序号	项目名称	结论
7	开门作业对温控库房温度分布影响的确认	门01在环境温度-21.1℃~6.8℃情况下，不同作业条件下进行开门测试，满足不超出温控范围-22.0℃~

序号	项目名称	结论
8	设备故障或外部供电中断的状况下温控库房保温性能及变化趋势确定	<p>在环境温度-0.6℃~2.0℃情况下，不同作业条件下进行断电测试，基于变化速率最快点位温度变化推算恢复供电，需要对库内药</p>

序号	项目名称	结论
9	风机除霜作业对温控库房温度分布影响的确认	本次验证共持续0小时10分钟，在环境温度处于-0.5℃~-0.2℃情况下，各测点

序号	项目名称	结论
10	风机除霜作业对温控库房温度分布影响的确认	本次验证共持续0小时10分钟，在环境温度处于-5.3℃~-5.0℃情况下，各测点

10 风险防范及预防措施

11 附件

1. 详见验证数据汇总
2. 详见验证设备的校准证书（法定计量单位出具）复印件

12 报告确认

经验证小组审批，各项确认结果均符合标准要求，批准投入使用，特此声明。

确认项目名称：头孢事业部110车间 冷库(三)低温满载验证

负责人 _____

附录A: 各测点极值表

时间	所有点最大值 (t _{imax})	所有点最小值 (t _{imin})	t _{imax} -t _{imin}
2026-02-01 16:00:00	-18.8	-20.7	1.9
2026-02-01 16:01:00	-18.8	-20.6	1.8
2026-02-01 16:02:00	-19.1	-20.6	1.5
2026-02-01 16:03:00	-19.6	-21.5	1.9
2026-02-01 16:04:00	-20.0	-21.9	1.9
2026-02-01 16:05:00	-20.1	-21.9	1.8
2026-02-01 16:06:00	-20.0	-21.8	1.8
2026-02-01 16:07:00	-20.0	-21.7	1.7
2026-02-01 16:08:00	-19.8	-21.5	1.7
2026-02-01 16:09:00	-19.7	-21.2	1.5
2026-02-01 16:10:00	-19.6	-21.0	1.4
2026-02-01 16:11:00	-19.5	-21.0	1.5
2026-02-01 16:12:00	-19.3	-20.9	1.6
2026-02-01 16:13:00	-19.2	-20.8	1.6
2026-02-01 16:14:00	-19.0	-20.7	1.7
2026-02-01 16:15:00	-18.9	-20.7	1.8
2026-02-01 16:16:00	-18.8	-20.4	1.6
2026-02-01 16:17:00	-19.0	-20.4	1.4
2026-02-01 16:18:00	-19.3	-21.2	1.9
2026-02-01 16:19:00	-19.6	-21.7	2.1
2026-02-01 16:20:00	-19.8	-21.9	2.1
2026-02-01 16:21:00	-19.8	-21.8	2.0
2026-02-01 16:22:00	-19.8	-21.7	1.9
2026-02-01 16:23:00	-19.7	-21.3	1.6
2026-02-01 16:24:00	-19.6	-21.3	1.7
2026-02-01 16:25:00	-19.5	-21.2	1.7
2026-02-01 16:26:00	-19.3	-21.2	1.9
2026-02-01 16:27:00	-19.2	-21.1	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 16:28:00	-19.1	-21.0	1.9
2026-02-01 16:29:00	-19.0	-20.9	1.9
2026-02-01 16:30:00	-18.8	-20.8	2.0
2026-02-01 16:31:00	-18.8	-20.6	1.8
2026-02-01 16:32:00	-19.1	-20.6	1.5
2026-02-01 16:33:00	-19.5	-21.6	2.1
2026-02-01 16:34:00	-20.0	-21.9	1.9
2026-02-01 16:35:00	-20.1	-21.9	1.8
2026-02-01 16:36:00	-20.1	-21.8	1.7
2026-02-01 16:37:00	-20.0	-21.7	1.7
2026-02-01 16:38:00	-19.9	-21.6	1.7
2026-02-01 16:39:00	-19.8	-21.3	1.5
2026-02-01 16:40:00	-19.6	-21.2	1.6
2026-02-01 16:41:00	-19.5	-21.1	1.6
2026-02-01 16:42:00	-19.4	-21.0	1.6
2026-02-01 16:43:00	-19.2	-20.9	1.7
2026-02-01 16:44:00	-19.1	-20.8	1.7
2026-02-01 16:45:00	-18.9	-20.7	1.8
2026-02-01 16:46:00	-18.8	-20.6	1.8
2026-02-01 16:47:00	-18.8	-20.4	1.6
2026-02-01 16:48:00	-19.2	-20.9	1.7
2026-02-01 16:49:00	-19.6	-21.7	2.1
2026-02-01 16:50:00	-19.9	-21.9	2.0
2026-02-01 16:51:00	-19.9	-21.8	1.9
2026-02-01 16:52:00	-19.8	-21.7	1.9
2026-02-01 16:53:00	-19.7	-21.5	1.8
2026-02-01 16:54:00	-19.6	-21.3	1.7
2026-02-01 16:55:00	-19.5	-21.2	1.7
2026-02-01 16:56:00	-19.4	-21.2	1.8
2026-02-01 16:57:00	-19.3	-21.1	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 16:58:00	-19.1	-21.0	1.9
2026-02-01 16:59:00	-19.0	-20.9	1.9
2026-02-01 17:00:00	-18.9	-20.8	1.9
2026-02-01 17:01:00	-18.8	-20.6	1.8
2026-02-01 17:02:00	-19.1	-20.7	1.6
2026-02-01 17:03:00	-19.5	-21.6	2.1
2026-02-01 17:04:00	-19.9	-21.9	2.0
2026-02-01 17:05:00	-20.1	-21.9	1.8
2026-02-01 17:06:00	-20.1	-21.8	1.7
2026-02-01 17:07:00	-20.0	-21.7	1.7
2026-02-01 17:08:00	-19.8	-21.5	1.7
2026-02-01 17:09:00	-19.7	-21.2	1.5
2026-02-01 17:10:00	-19.6	-21.1	1.5
2026-02-01 17:11:00	-19.5	-21.0	1.5
2026-02-01 17:12:00	-19.3	-20.9	1.6
2026-02-01 17:13:00	-19.2	-20.8	1.6
2026-02-01 17:14:00	-19.1	-20.8	1.7
2026-02-01 17:15:00	-18.9	-20.7	1.8
2026-02-01 17:16:00	-18.8	-20.4	1.6
2026-02-01 17:17:00	-19.0	-20.4	1.4
2026-02-01 17:18:00	-19.4	-21.3	1.9
2026-02-01 17:19:00	-19.8	-21.9	2.1
2026-02-01 17:20:00	-20.1	-21.9	1.8
2026-02-01 17:21:00	-20.1	-21.8	1.7
2026-02-01 17:22:00	-20.0	-21.7	1.7
2026-02-01 17:23:00	-19.9	-21.6	1.7
2026-02-01 17:24:00	-19.8	-21.3	1.5
2026-02-01 17:25:00	-19.7	-21.0	1.3
2026-02-01 17:26:00	-19.5	-21.0	1.5
2026-02-01 17:27:00	-19.4	-21.0	1.6

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 17:28:00	-19.2	-20.9	1.7
2026-02-01 17:29:00	-19.1	-20.8	1.7
2026-02-01 17:30:00	-18.9	-20.7	1.8
2026-02-01 17:31:00	-18.8	-20.2	1.4
2026-02-01 17:32:00	-18.9	-20.3	1.4
2026-02-01 17:33:00	-19.1	-21.2	2.1
2026-02-01 17:34:00	-19.2	-21.7	2.5
2026-02-01 17:35:00	-19.3	-21.9	2.6
2026-02-01 17:36:00	-19.1	-21.7	2.6
2026-02-01 17:37:00	-18.6	-21.5	2.9
2026-02-01 17:38:00	-18.4	-21.1	2.7
2026-02-01 17:39:00	-18.3	-20.9	2.6
2026-02-01 17:40:00	-18.3	-20.8	2.5
2026-02-01 17:41:00	-18.2	-20.7	2.5
2026-02-01 17:42:00	-18.1	-20.5	2.4
2026-02-01 17:43:00	-18.1	-19.9	1.8
2026-02-01 17:44:00	-18.1	-19.3	1.2
2026-02-01 17:45:00	-18.1	-18.7	0.6
2026-02-01 17:46:00	-18.1	-18.6	0.5
2026-02-01 17:47:00	-18.1	-18.6	0.5
2026-02-01 17:48:00	-18.3	-19.0	0.7
2026-02-01 17:49:00	-18.2	-19.7	1.5
2026-02-01 17:50:00	-18.4	-20.0	1.6
2026-02-01 17:51:00	-18.4	-20.2	1.8
2026-02-01 17:52:00	-18.4	-20.3	1.9
2026-02-01 17:53:00	-18.3	-20.4	2.1
2026-02-01 17:54:00	-18.3	-20.5	2.2
2026-02-01 17:55:00	-18.3	-20.5	2.2
2026-02-01 17:56:00	-18.3	-20.6	2.3
2026-02-01 17:57:00	-18.3	-20.8	2.5

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 17:58:00	-18.4	-21.1	2.7
2026-02-01 17:59:00	-18.8	-21.3	2.5
2026-02-01 18:00:00	-18.2	-20.4	2.2
2026-02-01 18:01:00	-18.8	-20.1	1.3
2026-02-01 18:02:00	-19.1	-20.4	1.3
2026-02-01 18:03:00	-19.4	-21.2	1.8
2026-02-01 18:04:00	-19.7	-21.8	2.1
2026-02-01 18:05:00	-19.9	-21.9	2.0
2026-02-01 18:06:00	-19.8	-21.8	2.0
2026-02-01 18:07:00	-19.8	-21.7	1.9
2026-02-01 18:08:00	-19.7	-21.5	1.8
2026-02-01 18:09:00	-19.6	-21.2	1.6
2026-02-01 18:10:00	-19.4	-20.9	1.5
2026-02-01 18:11:00	-19.2	-20.6	1.4
2026-02-01 18:12:00	-19.1	-20.4	1.3
2026-02-01 18:13:00	-18.9	-20.3	1.4
2026-02-01 18:14:00	-18.8	-20.2	1.4
2026-02-01 18:15:00	-18.8	-20.3	1.5
2026-02-01 18:16:00	-19.1	-21.2	2.1
2026-02-01 18:17:00	-19.5	-21.8	2.3
2026-02-01 18:18:00	-19.6	-21.9	2.3
2026-02-01 18:19:00	-19.6	-21.8	2.2
2026-02-01 18:20:00	-19.5	-21.7	2.2
2026-02-01 18:21:00	-19.4	-21.5	2.1
2026-02-01 18:22:00	-19.3	-21.2	1.9
2026-02-01 18:23:00	-19.2	-21.0	1.8
2026-02-01 18:24:00	-19.1	-21.0	1.9
2026-02-01 18:25:00	-18.9	-20.9	2.0
2026-02-01 18:26:00	-18.8	-20.7	1.9
2026-02-01 18:27:00	-18.6	-20.6	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 18:28:00	-18.5	-20.4	1.9
2026-02-01 18:29:00	-18.8	-20.4	1.6
2026-02-01 18:30:00	-19.1	-21.3	2.2
2026-02-01 18:31:00	-19.4	-21.8	2.4
2026-02-01 18:32:00	-19.6	-21.9	2.3
2026-02-01 18:33:00	-19.6	-21.8	2.2
2026-02-01 18:34:00	-19.6	-21.7	2.1
2026-02-01 18:35:00	-19.5	-21.5	2.0
2026-02-01 18:36:00	-19.3	-21.3	2.0
2026-02-01 18:37:00	-19.2	-21.2	2.0
2026-02-01 18:38:00	-19.1	-21.2	2.1
2026-02-01 18:39:00	-18.9	-21.0	2.1
2026-02-01 18:40:00	-18.8	-20.9	2.1
2026-02-01 18:41:00	-18.7	-20.8	2.1
2026-02-01 18:42:00	-18.5	-20.6	2.1
2026-02-01 18:43:00	-18.8	-20.4	1.6
2026-02-01 18:44:00	-19.2	-21.2	2.0
2026-02-01 18:45:00	-19.4	-21.8	2.4
2026-02-01 18:46:00	-19.6	-21.9	2.3
2026-02-01 18:47:00	-19.7	-21.8	2.1
2026-02-01 18:48:00	-19.7	-21.7	2.0
2026-02-01 18:49:00	-19.6	-21.6	2.0
2026-02-01 18:50:00	-19.5	-21.4	1.9
2026-02-01 18:51:00	-19.3	-21.3	2.0
2026-02-01 18:52:00	-19.2	-21.2	2.0
2026-02-01 18:53:00	-19.1	-21.2	2.1
2026-02-01 18:54:00	-18.9	-21.0	2.1
2026-02-01 18:55:00	-18.8	-21.0	2.2
2026-02-01 18:56:00	-18.6	-20.9	2.3
2026-02-01 18:57:00	-18.7	-20.6	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 18:58:00	-19.0	-20.7	1.7
2026-02-01 18:59:00	-19.6	-21.6	2.0
2026-02-01 19:00:00	-20.0	-21.9	1.9
2026-02-01 19:01:00	-20.0	-21.9	1.9
2026-02-01 19:02:00	-20.0	-21.8	1.8
2026-02-01 19:03:00	-19.9	-21.7	1.8
2026-02-01 19:04:00	-19.8	-21.5	1.7
2026-02-01 19:05:00	-19.6	-21.1	1.5
2026-02-01 19:06:00	-19.5	-20.9	1.4
2026-02-01 19:07:00	-19.4	-20.9	1.5
2026-02-01 19:08:00	-19.3	-20.8	1.5
2026-02-01 19:09:00	-19.1	-20.7	1.6
2026-02-01 19:10:00	-18.9	-20.6	1.7
2026-02-01 19:11:00	-18.8	-20.5	1.7
2026-02-01 19:12:00	-18.8	-20.4	1.6
2026-02-01 19:13:00	-19.3	-20.8	1.5
2026-02-01 19:14:00	-19.5	-21.8	2.3
2026-02-01 19:15:00	-19.8	-21.9	2.1
2026-02-01 19:16:00	-19.9	-21.8	1.9
2026-02-01 19:17:00	-19.8	-21.7	1.9
2026-02-01 19:18:00	-19.7	-21.6	1.9
2026-02-01 19:19:00	-19.6	-21.4	1.8
2026-02-01 19:20:00	-19.5	-21.3	1.8
2026-02-01 19:21:00	-19.3	-21.3	2.0
2026-02-01 19:22:00	-19.2	-21.2	2.0
2026-02-01 19:23:00	-19.1	-21.1	2.0
2026-02-01 19:24:00	-19.0	-21.0	2.0
2026-02-01 19:25:00	-18.8	-20.9	2.1
2026-02-01 19:26:00	-18.7	-20.9	2.2
2026-02-01 19:27:00	-18.8	-20.6	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 19:28:00	-19.3	-21.1	1.8
2026-02-01 19:29:00	-19.6	-21.9	2.3
2026-02-01 19:30:00	-20.0	-21.9	1.9
2026-02-01 19:31:00	-20.1	-21.8	1.7
2026-02-01 19:32:00	-20.0	-21.7	1.7
2026-02-01 19:33:00	-19.9	-21.6	1.7
2026-02-01 19:34:00	-19.8	-21.3	1.5
2026-02-01 19:35:00	-19.7	-21.2	1.5
2026-02-01 19:36:00	-19.6	-21.1	1.5
2026-02-01 19:37:00	-19.4	-21.0	1.6
2026-02-01 19:38:00	-19.3	-21.0	1.7
2026-02-01 19:39:00	-19.1	-20.8	1.7
2026-02-01 19:40:00	-18.9	-20.7	1.8
2026-02-01 19:41:00	-18.8	-20.6	1.8
2026-02-01 19:42:00	-18.8	-20.3	1.5
2026-02-01 19:43:00	-19.1	-20.7	1.6
2026-02-01 19:44:00	-19.5	-21.6	2.1
2026-02-01 19:45:00	-19.8	-21.9	2.1
2026-02-01 19:46:00	-19.9	-21.9	2.0
2026-02-01 19:47:00	-19.8	-21.8	2.0
2026-02-01 19:48:00	-19.7	-21.7	2.0
2026-02-01 19:49:00	-19.6	-21.4	1.8
2026-02-01 19:50:00	-19.5	-21.2	1.7
2026-02-01 19:51:00	-19.4	-21.2	1.8
2026-02-01 19:52:00	-19.3	-21.1	1.8
2026-02-01 19:53:00	-19.1	-21.0	1.9
2026-02-01 19:54:00	-19.0	-20.9	1.9
2026-02-01 19:55:00	-18.9	-20.8	1.9
2026-02-01 19:56:00	-18.8	-20.7	1.9
2026-02-01 19:57:00	-18.8	-20.5	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 19:58:00	-19.1	-20.8	1.7
2026-02-01 19:59:00	-19.5	-21.8	2.3
2026-02-01 20:00:00	-20.0	-21.9	1.9
2026-02-01 20:01:00	-20.1	-21.9	1.8
2026-02-01 20:02:00	-20.0	-21.8	1.8
2026-02-01 20:03:00	-19.9	-21.7	1.8
2026-02-01 20:04:00	-19.8	-21.5	1.7
2026-02-01 20:05:00	-19.7	-21.2	1.5
2026-02-01 20:06:00	-19.6	-21.1	1.5
2026-02-01 20:07:00	-19.5	-21.0	1.5
2026-02-01 20:08:00	-19.3	-20.9	1.6
2026-02-01 20:09:00	-19.1	-20.8	1.7
2026-02-01 20:10:00	-19.0	-20.7	1.7
2026-02-01 20:11:00	-18.9	-20.7	1.8
2026-02-01 20:12:00	-18.8	-20.4	1.6
2026-02-01 20:13:00	-18.9	-20.5	1.6
2026-02-01 20:14:00	-19.4	-21.2	1.8
2026-02-01 20:15:00	-19.8	-21.8	2.0
2026-02-01 20:16:00	-19.9	-21.9	2.0
2026-02-01 20:17:00	-19.9	-21.8	1.9
2026-02-01 20:18:00	-19.8	-21.7	1.9
2026-02-01 20:19:00	-19.7	-21.4	1.7
2026-02-01 20:20:00	-19.6	-21.2	1.6
2026-02-01 20:21:00	-19.5	-21.2	1.7
2026-02-01 20:22:00	-19.3	-21.2	1.9
2026-02-01 20:23:00	-19.2	-21.1	1.9
2026-02-01 20:24:00	-19.1	-21.0	1.9
2026-02-01 20:25:00	-19.0	-20.9	1.9
2026-02-01 20:26:00	-18.8	-20.8	2.0
2026-02-01 20:27:00	-18.8	-20.6	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 20:28:00	-19.0	-20.6	1.6
2026-02-01 20:29:00	-19.4	-21.5	2.1
2026-02-01 20:30:00	-19.8	-21.9	2.1
2026-02-01 20:31:00	-20.1	-21.9	1.8
2026-02-01 20:32:00	-20.0	-21.8	1.8
2026-02-01 20:33:00	-20.0	-21.7	1.7
2026-02-01 20:34:00	-19.8	-21.6	1.8
2026-02-01 20:35:00	-19.7	-21.2	1.5
2026-02-01 20:36:00	-19.6	-21.0	1.4
2026-02-01 20:37:00	-19.5	-21.0	1.5
2026-02-01 20:38:00	-19.3	-20.9	1.6
2026-02-01 20:39:00	-19.1	-20.9	1.8
2026-02-01 20:40:00	-19.0	-20.8	1.8
2026-02-01 20:41:00	-18.9	-20.7	1.8
2026-02-01 20:42:00	-18.7	-20.5	1.8
2026-02-01 20:43:00	-18.8	-20.4	1.6
2026-02-01 20:44:00	-19.3	-20.8	1.5
2026-02-01 20:45:00	-19.6	-21.8	2.2
2026-02-01 20:46:00	-19.8	-21.9	2.1
2026-02-01 20:47:00	-19.9	-21.9	2.0
2026-02-01 20:48:00	-19.9	-21.8	1.9
2026-02-01 20:49:00	-19.7	-21.6	1.9
2026-02-01 20:50:00	-19.6	-21.3	1.7
2026-02-01 20:51:00	-19.5	-21.3	1.8
2026-02-01 20:52:00	-19.4	-21.2	1.8
2026-02-01 20:53:00	-19.3	-21.2	1.9
2026-02-01 20:54:00	-19.1	-21.1	2.0
2026-02-01 20:55:00	-19.0	-21.0	2.0
2026-02-01 20:56:00	-18.9	-20.9	2.0
2026-02-01 20:57:00	-18.8	-20.7	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 20:58:00	-18.9	-20.6	1.7
2026-02-01 20:59:00	-19.3	-21.3	2.0
2026-02-01 21:00:00	-19.8	-21.9	2.1
2026-02-01 21:01:00	-20.1	-21.9	1.8
2026-02-01 21:02:00	-20.1	-21.8	1.7
2026-02-01 21:03:00	-20.0	-21.7	1.7
2026-02-01 21:04:00	-19.9	-21.6	1.7
2026-02-01 21:05:00	-19.8	-21.3	1.5
2026-02-01 21:06:00	-19.7	-21.1	1.4
2026-02-01 21:07:00	-19.5	-21.0	1.5
2026-02-01 21:08:00	-19.4	-21.0	1.6
2026-02-01 21:09:00	-19.3	-20.9	1.6
2026-02-01 21:10:00	-19.1	-20.8	1.7
2026-02-01 21:11:00	-18.9	-20.7	1.8
2026-02-01 21:12:00	-18.8	-20.6	1.8
2026-02-01 21:13:00	-18.8	-20.4	1.6
2026-02-01 21:14:00	-19.1	-20.7	1.6
2026-02-01 21:15:00	-19.5	-21.7	2.2
2026-02-01 21:16:00	-19.8	-21.9	2.1
2026-02-01 21:17:00	-19.8	-21.9	2.1
2026-02-01 21:18:00	-19.7	-21.8	2.1
2026-02-01 21:19:00	-19.7	-21.7	2.0
2026-02-01 21:20:00	-19.6	-21.4	1.8
2026-02-01 21:21:00	-19.5	-21.3	1.8
2026-02-01 21:22:00	-19.3	-21.2	1.9
2026-02-01 21:23:00	-19.2	-21.2	2.0
2026-02-01 21:24:00	-19.1	-21.1	2.0
2026-02-01 21:25:00	-19.0	-21.0	2.0
2026-02-01 21:26:00	-18.9	-20.9	2.0
2026-02-01 21:27:00	-18.7	-20.8	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 21:28:00	-18.7	-20.6	1.9
2026-02-01 21:29:00	-19.1	-20.7	1.6
2026-02-01 21:30:00	-19.5	-21.8	2.3
2026-02-01 21:31:00	-20.0	-21.9	1.9
2026-02-01 21:32:00	-20.1	-21.9	1.8
2026-02-01 21:33:00	-20.0	-21.8	1.8
2026-02-01 21:34:00	-19.9	-21.7	1.8
2026-02-01 21:35:00	-19.8	-21.5	1.7
2026-02-01 21:36:00	-19.7	-21.1	1.4
2026-02-01 21:37:00	-19.6	-21.1	1.5
2026-02-01 21:38:00	-19.4	-21.0	1.6
2026-02-01 21:39:00	-19.3	-21.0	1.7
2026-02-01 21:40:00	-19.2	-20.9	1.7
2026-02-01 21:41:00	-19.0	-20.8	1.8
2026-02-01 21:42:00	-18.9	-20.7	1.8
2026-02-01 21:43:00	-18.8	-20.5	1.7
2026-02-01 21:44:00	-18.9	-20.4	1.5
2026-02-01 21:45:00	-19.3	-21.1	1.8
2026-02-01 21:46:00	-19.6	-21.8	2.2
2026-02-01 21:47:00	-19.8	-21.9	2.1
2026-02-01 21:48:00	-19.9	-21.8	1.9
2026-02-01 21:49:00	-19.8	-21.7	1.9
2026-02-01 21:50:00	-19.7	-21.6	1.9
2026-02-01 21:51:00	-19.6	-21.4	1.8
2026-02-01 21:52:00	-19.5	-21.2	1.7
2026-02-01 21:53:00	-19.4	-21.2	1.8
2026-02-01 21:54:00	-19.3	-21.1	1.8
2026-02-01 21:55:00	-19.1	-21.1	2.0
2026-02-01 21:56:00	-19.0	-21.0	2.0
2026-02-01 21:57:00	-18.9	-20.9	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 21:58:00	-18.8	-20.8	2.0
2026-02-01 21:59:00	-18.7	-20.6	1.9
2026-02-01 22:00:00	-19.0	-20.6	1.6
2026-02-01 22:01:00	-19.4	-21.7	2.3
2026-02-01 22:02:00	-19.9	-21.9	2.0
2026-02-01 22:03:00	-20.1	-21.9	1.8
2026-02-01 22:04:00	-20.0	-21.8	1.8
2026-02-01 22:05:00	-19.9	-21.7	1.8
2026-02-01 22:06:00	-19.8	-21.5	1.7
2026-02-01 22:07:00	-19.7	-21.2	1.5
2026-02-01 22:08:00	-19.6	-21.1	1.5
2026-02-01 22:09:00	-19.5	-21.1	1.6
2026-02-01 22:10:00	-19.3	-21.0	1.7
2026-02-01 22:11:00	-19.1	-20.9	1.8
2026-02-01 22:12:00	-19.0	-20.8	1.8
2026-02-01 22:13:00	-18.9	-20.7	1.8
2026-02-01 22:14:00	-18.7	-20.5	1.8
2026-02-01 22:15:00	-18.8	-20.3	1.5
2026-02-01 22:16:00	-19.2	-20.9	1.7
2026-02-01 22:17:00	-19.5	-21.7	2.2
2026-02-01 22:18:00	-19.8	-21.9	2.1
2026-02-01 22:19:00	-19.9	-21.9	2.0
2026-02-01 22:20:00	-19.9	-21.7	1.8
2026-02-01 22:21:00	-19.7	-21.6	1.9
2026-02-01 22:22:00	-19.6	-21.4	1.8
2026-02-01 22:23:00	-19.5	-21.4	1.9
2026-02-01 22:24:00	-19.4	-21.3	1.9
2026-02-01 22:25:00	-19.3	-21.2	1.9
2026-02-01 22:26:00	-19.1	-21.1	2.0
2026-02-01 22:27:00	-19.0	-21.0	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 22:28:00	-18.9	-20.9	2.0
2026-02-01 22:29:00	-18.8	-20.7	1.9
2026-02-01 22:30:00	-18.8	-20.6	1.8
2026-02-01 22:31:00	-19.1	-20.9	1.8
2026-02-01 22:32:00	-19.5	-21.8	2.3
2026-02-01 22:33:00	-20.0	-21.9	1.9
2026-02-01 22:34:00	-20.1	-21.9	1.8
2026-02-01 22:35:00	-20.0	-21.8	1.8
2026-02-01 22:36:00	-20.0	-21.7	1.7
2026-02-01 22:37:00	-19.8	-21.5	1.7
2026-02-01 22:38:00	-19.7	-21.2	1.5
2026-02-01 22:39:00	-19.6	-21.1	1.5
2026-02-01 22:40:00	-19.5	-21.1	1.6
2026-02-01 22:41:00	-19.3	-21.0	1.7
2026-02-01 22:42:00	-19.1	-20.9	1.8
2026-02-01 22:43:00	-19.0	-20.8	1.8
2026-02-01 22:44:00	-18.8	-20.7	1.9
2026-02-01 22:45:00	-18.7	-20.5	1.8
2026-02-01 22:46:00	-19.0	-20.5	1.5
2026-02-01 22:47:00	-19.3	-21.4	2.1
2026-02-01 22:48:00	-19.7	-21.8	2.1
2026-02-01 22:49:00	-19.8	-21.9	2.1
2026-02-01 22:50:00	-19.7	-21.8	2.1
2026-02-01 22:51:00	-19.7	-21.7	2.0
2026-02-01 22:52:00	-19.6	-21.4	1.8
2026-02-01 22:53:00	-19.5	-21.3	1.8
2026-02-01 22:54:00	-19.4	-21.3	1.9
2026-02-01 22:55:00	-19.3	-21.2	1.9
2026-02-01 22:56:00	-19.1	-21.2	2.1
2026-02-01 22:57:00	-19.0	-21.1	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 22:58:00	-18.9	-21.0	2.1
2026-02-01 22:59:00	-18.8	-20.9	2.1
2026-02-01 23:00:00	-18.6	-20.8	2.2
2026-02-01 23:01:00	-18.8	-20.6	1.8
2026-02-01 23:02:00	-19.3	-21.3	2.0
2026-02-01 23:03:00	-19.8	-21.9	2.1
2026-02-01 23:04:00	-20.0	-21.9	1.9
2026-02-01 23:05:00	-20.0	-21.8	1.8
2026-02-01 23:06:00	-20.0	-21.7	1.7
2026-02-01 23:07:00	-19.9	-21.5	1.6
2026-02-01 23:08:00	-19.8	-21.3	1.5
2026-02-01 23:09:00	-19.7	-21.1	1.4
2026-02-01 23:10:00	-19.6	-21.0	1.4
2026-02-01 23:11:00	-19.4	-21.0	1.6
2026-02-01 23:12:00	-19.3	-20.9	1.6
2026-02-01 23:13:00	-19.1	-20.8	1.7
2026-02-01 23:14:00	-19.0	-20.7	1.7
2026-02-01 23:15:00	-18.8	-20.6	1.8
2026-02-01 23:16:00	-18.7	-20.3	1.6
2026-02-01 23:17:00	-18.9	-20.4	1.5
2026-02-01 23:18:00	-19.3	-21.5	2.2
2026-02-01 23:19:00	-19.6	-21.9	2.3
2026-02-01 23:20:00	-19.7	-21.9	2.2
2026-02-01 23:21:00	-19.7	-21.8	2.1
2026-02-01 23:22:00	-19.6	-21.7	2.1
2026-02-01 23:23:00	-19.5	-21.4	1.9
2026-02-01 23:24:00	-19.4	-21.3	1.9
2026-02-01 23:25:00	-19.3	-21.3	2.0
2026-02-01 23:26:00	-19.2	-21.2	2.0
2026-02-01 23:27:00	-19.1	-21.2	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 23:28:00	-18.9	-21.0	2.1
2026-02-01 23:29:00	-18.8	-20.9	2.1
2026-02-01 23:30:00	-18.7	-20.8	2.1
2026-02-01 23:31:00	-18.6	-20.4	1.8
2026-02-01 23:32:00	-18.7	-20.8	2.1
2026-02-01 23:33:00	-18.9	-21.6	2.7
2026-02-01 23:34:00	-19.0	-21.8	2.8
2026-02-01 23:35:00	-19.0	-21.9	2.9
2026-02-01 23:36:00	-18.5	-21.9	3.4
2026-02-01 23:37:00	-18.4	-21.7	3.3
2026-02-01 23:38:00	-18.3	-21.2	2.9
2026-02-01 23:39:00	-18.3	-21.0	2.7
2026-02-01 23:40:00	-18.2	-20.8	2.6
2026-02-01 23:41:00	-18.1	-20.7	2.6
2026-02-01 23:42:00	-18.1	-20.5	2.4
2026-02-01 23:43:00	-18.1	-20.2	2.1
2026-02-01 23:44:00	-18.1	-19.1	1.0
2026-02-01 23:45:00	-18.1	-18.5	0.4
2026-02-01 23:46:00	-18.1	-18.4	0.3
2026-02-01 23:47:00	-18.2	-18.7	0.5
2026-02-01 23:48:00	-18.2	-19.3	1.1
2026-02-01 23:49:00	-18.2	-19.8	1.6
2026-02-01 23:50:00	-18.1	-20.0	1.9
2026-02-01 23:51:00	-18.2	-20.1	1.9
2026-02-01 23:52:00	-18.3	-20.3	2.0
2026-02-01 23:53:00	-18.3	-20.5	2.2
2026-02-01 23:54:00	-18.2	-20.6	2.4
2026-02-01 23:55:00	-18.2	-20.7	2.5
2026-02-01 23:56:00	-18.3	-20.9	2.6
2026-02-01 23:57:00	-18.6	-21.2	2.6

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-01 23:58:00	-18.7	-21.4	2.7
2026-02-01 23:59:00	-18.7	-21.6	2.9
2026-02-02 00:00:00	-18.8	-21.7	2.9
2026-02-02 00:01:00	-18.9	-21.8	2.9
2026-02-02 00:02:00	-19.0	-21.9	2.9
2026-02-02 00:03:00	-19.1	-21.9	2.8
2026-02-02 00:04:00	-19.1	-21.8	2.7
2026-02-02 00:05:00	-19.0	-21.7	2.7
2026-02-02 00:06:00	-18.9	-21.1	2.2
2026-02-02 00:07:00	-18.6	-20.9	2.3
2026-02-02 00:08:00	-18.5	-20.8	2.3
2026-02-02 00:09:00	-18.4	-20.6	2.2
2026-02-02 00:10:00	-18.3	-20.5	2.2
2026-02-02 00:11:00	-18.2	-20.3	2.1
2026-02-02 00:12:00	-18.1	-19.8	1.7
2026-02-02 00:13:00	-18.3	-19.9	1.6
2026-02-02 00:14:00	-18.7	-20.6	1.9
2026-02-02 00:15:00	-19.2	-21.3	2.1
2026-02-02 00:16:00	-19.5	-21.9	2.4
2026-02-02 00:17:00	-19.6	-21.9	2.3
2026-02-02 00:18:00	-19.7	-21.8	2.1
2026-02-02 00:19:00	-19.6	-21.5	1.9
2026-02-02 00:20:00	-19.5	-21.2	1.7
2026-02-02 00:21:00	-19.3	-20.9	1.6
2026-02-02 00:22:00	-19.2	-20.7	1.5
2026-02-02 00:23:00	-19.0	-20.6	1.6
2026-02-02 00:24:00	-18.9	-20.5	1.6
2026-02-02 00:25:00	-18.7	-20.4	1.7
2026-02-02 00:26:00	-18.6	-20.3	1.7
2026-02-02 00:27:00	-18.6	-20.1	1.5

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 00:28:00	-18.9	-20.7	1.8
2026-02-02 00:29:00	-19.3	-21.7	2.4
2026-02-02 00:30:00	-19.6	-21.8	2.2
2026-02-02 00:31:00	-19.7	-21.9	2.2
2026-02-02 00:32:00	-19.6	-21.8	2.2
2026-02-02 00:33:00	-19.5	-21.7	2.2
2026-02-02 00:34:00	-19.4	-21.4	2.0
2026-02-02 00:35:00	-19.3	-21.2	1.9
2026-02-02 00:36:00	-19.2	-21.1	1.9
2026-02-02 00:37:00	-19.1	-21.0	1.9
2026-02-02 00:38:00	-18.9	-20.9	2.0
2026-02-02 00:39:00	-18.8	-20.7	1.9
2026-02-02 00:40:00	-18.6	-20.7	2.1
2026-02-02 00:41:00	-18.5	-20.5	2.0
2026-02-02 00:42:00	-18.7	-20.4	1.7
2026-02-02 00:43:00	-19.1	-21.2	2.1
2026-02-02 00:44:00	-19.4	-21.8	2.4
2026-02-02 00:45:00	-19.6	-21.9	2.3
2026-02-02 00:46:00	-19.6	-21.8	2.2
2026-02-02 00:47:00	-19.6	-21.7	2.1
2026-02-02 00:48:00	-19.5	-21.6	2.1
2026-02-02 00:49:00	-19.3	-21.5	2.2
2026-02-02 00:50:00	-19.2	-21.4	2.2
2026-02-02 00:51:00	-19.1	-21.3	2.2
2026-02-02 00:52:00	-18.9	-21.2	2.3
2026-02-02 00:53:00	-18.8	-21.1	2.3
2026-02-02 00:54:00	-18.7	-21.0	2.3
2026-02-02 00:55:00	-18.5	-20.9	2.4
2026-02-02 00:56:00	-18.5	-20.6	2.1
2026-02-02 00:57:00	-18.8	-20.7	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 00:58:00	-19.2	-21.6	2.4
2026-02-02 00:59:00	-19.5	-21.9	2.4
2026-02-02 01:00:00	-19.6	-21.9	2.3
2026-02-02 01:01:00	-19.6	-21.8	2.2
2026-02-02 01:02:00	-19.5	-21.7	2.2
2026-02-02 01:03:00	-19.4	-21.4	2.0
2026-02-02 01:04:00	-19.3	-21.3	2.0
2026-02-02 01:05:00	-19.1	-21.3	2.2
2026-02-02 01:06:00	-19.0	-21.2	2.2
2026-02-02 01:07:00	-18.9	-21.2	2.3
2026-02-02 01:08:00	-18.8	-21.1	2.3
2026-02-02 01:09:00	-18.6	-21.0	2.4
2026-02-02 01:10:00	-18.5	-20.8	2.3
2026-02-02 01:11:00	-18.7	-20.6	1.9
2026-02-02 01:12:00	-19.1	-21.2	2.1
2026-02-02 01:13:00	-19.7	-21.9	2.2
2026-02-02 01:14:00	-19.9	-21.9	2.0
2026-02-02 01:15:00	-20.0	-21.8	1.8
2026-02-02 01:16:00	-19.9	-21.7	1.8
2026-02-02 01:17:00	-19.8	-21.5	1.7
2026-02-02 01:18:00	-19.7	-21.3	1.6
2026-02-02 01:19:00	-19.6	-21.0	1.4
2026-02-02 01:20:00	-19.5	-21.0	1.5
2026-02-02 01:21:00	-19.3	-20.9	1.6
2026-02-02 01:22:00	-19.2	-20.8	1.6
2026-02-02 01:23:00	-19.0	-20.8	1.8
2026-02-02 01:24:00	-18.9	-20.7	1.8
2026-02-02 01:25:00	-18.8	-20.6	1.8
2026-02-02 01:26:00	-18.7	-20.4	1.7
2026-02-02 01:27:00	-19.0	-20.7	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 01:28:00	-19.4	-21.5	2.1
2026-02-02 01:29:00	-19.7	-21.9	2.2
2026-02-02 01:30:00	-19.9	-21.9	2.0
2026-02-02 01:31:00	-19.8	-21.8	2.0
2026-02-02 01:32:00	-19.7	-21.7	2.0
2026-02-02 01:33:00	-19.6	-21.4	1.8
2026-02-02 01:34:00	-19.5	-21.2	1.7
2026-02-02 01:35:00	-19.4	-21.2	1.8
2026-02-02 01:36:00	-19.3	-21.2	1.9
2026-02-02 01:37:00	-19.1	-21.1	2.0
2026-02-02 01:38:00	-19.0	-21.0	2.0
2026-02-02 01:39:00	-18.9	-20.9	2.0
2026-02-02 01:40:00	-18.8	-20.9	2.1
2026-02-02 01:41:00	-18.7	-20.7	2.0
2026-02-02 01:42:00	-18.9	-20.6	1.7
2026-02-02 01:43:00	-19.4	-21.4	2.0
2026-02-02 01:44:00	-19.8	-21.9	2.1
2026-02-02 01:45:00	-20.0	-21.9	1.9
2026-02-02 01:46:00	-20.0	-21.8	1.8
2026-02-02 01:47:00	-20.0	-21.7	1.7
2026-02-02 01:48:00	-19.9	-21.6	1.7
2026-02-02 01:49:00	-19.8	-21.3	1.5
2026-02-02 01:50:00	-19.6	-21.1	1.5
2026-02-02 01:51:00	-19.5	-21.1	1.6
2026-02-02 01:52:00	-19.4	-21.0	1.6
2026-02-02 01:53:00	-19.2	-21.0	1.8
2026-02-02 01:54:00	-19.1	-20.8	1.7
2026-02-02 01:55:00	-18.9	-20.8	1.9
2026-02-02 01:56:00	-18.8	-20.6	1.8
2026-02-02 01:57:00	-18.8	-20.4	1.6

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 01:58:00	-19.0	-20.5	1.5
2026-02-02 01:59:00	-19.4	-21.7	2.3
2026-02-02 02:00:00	-19.7	-21.8	2.1
2026-02-02 02:01:00	-19.7	-21.9	2.2
2026-02-02 02:02:00	-19.7	-21.8	2.1
2026-02-02 02:03:00	-19.6	-21.6	2.0
2026-02-02 02:04:00	-19.5	-21.4	1.9
2026-02-02 02:05:00	-19.4	-21.3	1.9
2026-02-02 02:06:00	-19.3	-21.3	2.0
2026-02-02 02:07:00	-19.2	-21.2	2.0
2026-02-02 02:08:00	-19.1	-21.1	2.0
2026-02-02 02:09:00	-18.9	-21.0	2.1
2026-02-02 02:10:00	-18.8	-20.9	2.1
2026-02-02 02:11:00	-18.7	-20.8	2.1
2026-02-02 02:12:00	-18.7	-20.6	1.9
2026-02-02 02:13:00	-19.1	-20.9	1.8
2026-02-02 02:14:00	-19.5	-21.8	2.3
2026-02-02 02:15:00	-20.0	-21.9	1.9
2026-02-02 02:16:00	-20.1	-21.9	1.8
2026-02-02 02:17:00	-20.0	-21.8	1.8
2026-02-02 02:18:00	-19.9	-21.7	1.8
2026-02-02 02:19:00	-19.8	-21.5	1.7
2026-02-02 02:20:00	-19.7	-21.3	1.6
2026-02-02 02:21:00	-19.5	-21.2	1.7
2026-02-02 02:22:00	-19.4	-21.1	1.7
2026-02-02 02:23:00	-19.3	-21.0	1.7
2026-02-02 02:24:00	-19.1	-21.0	1.9
2026-02-02 02:25:00	-18.9	-20.9	2.0
2026-02-02 02:26:00	-18.8	-20.8	2.0
2026-02-02 02:27:00	-18.7	-20.5	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 02:28:00	-18.9	-20.5	1.6
2026-02-02 02:29:00	-19.3	-21.0	1.7
2026-02-02 02:30:00	-19.6	-21.8	2.2
2026-02-02 02:31:00	-19.8	-21.9	2.1
2026-02-02 02:32:00	-19.8	-21.8	2.0
2026-02-02 02:33:00	-19.7	-21.7	2.0
2026-02-02 02:34:00	-19.6	-21.6	2.0
2026-02-02 02:35:00	-19.5	-21.4	1.9
2026-02-02 02:36:00	-19.4	-21.3	1.9
2026-02-02 02:37:00	-19.3	-21.3	2.0
2026-02-02 02:38:00	-19.2	-21.2	2.0
2026-02-02 02:39:00	-19.1	-21.2	2.1
2026-02-02 02:40:00	-18.9	-21.0	2.1
2026-02-02 02:41:00	-18.8	-20.9	2.1
2026-02-02 02:42:00	-18.7	-20.8	2.1
2026-02-02 02:43:00	-18.8	-20.6	1.8
2026-02-02 02:44:00	-19.2	-21.1	1.9
2026-02-02 02:45:00	-19.6	-21.9	2.3
2026-02-02 02:46:00	-20.1	-21.9	1.8
2026-02-02 02:47:00	-20.1	-21.9	1.8
2026-02-02 02:48:00	-20.0	-21.7	1.7
2026-02-02 02:49:00	-20.0	-21.6	1.6
2026-02-02 02:50:00	-19.9	-21.5	1.6
2026-02-02 02:51:00	-19.7	-21.3	1.6
2026-02-02 02:52:00	-19.6	-21.2	1.6
2026-02-02 02:53:00	-19.5	-21.1	1.6
2026-02-02 02:54:00	-19.3	-21.0	1.7
2026-02-02 02:55:00	-19.1	-20.9	1.8
2026-02-02 02:56:00	-18.9	-20.8	1.9
2026-02-02 02:57:00	-18.8	-20.7	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 02:58:00	-18.7	-20.5	1.8
2026-02-02 02:59:00	-18.9	-20.5	1.6
2026-02-02 03:00:00	-19.3	-21.1	1.8
2026-02-02 03:01:00	-19.6	-21.8	2.2
2026-02-02 03:02:00	-19.8	-21.9	2.1
2026-02-02 03:03:00	-19.8	-21.8	2.0
2026-02-02 03:04:00	-19.7	-21.7	2.0
2026-02-02 03:05:00	-19.6	-21.5	1.9
2026-02-02 03:06:00	-19.5	-21.3	1.8
2026-02-02 03:07:00	-19.4	-21.2	1.8
2026-02-02 03:08:00	-19.3	-21.2	1.9
2026-02-02 03:09:00	-19.1	-21.2	2.1
2026-02-02 03:10:00	-19.0	-21.0	2.0
2026-02-02 03:11:00	-18.9	-20.9	2.0
2026-02-02 03:12:00	-18.8	-20.8	2.0
2026-02-02 03:13:00	-18.7	-20.7	2.0
2026-02-02 03:14:00	-18.9	-20.5	1.6
2026-02-02 03:15:00	-19.3	-21.5	2.2
2026-02-02 03:16:00	-19.8	-21.9	2.1
2026-02-02 03:17:00	-20.0	-21.9	1.9
2026-02-02 03:18:00	-20.0	-21.8	1.8
2026-02-02 03:19:00	-20.0	-21.7	1.7
2026-02-02 03:20:00	-19.8	-21.6	1.8
2026-02-02 03:21:00	-19.7	-21.3	1.6
2026-02-02 03:22:00	-19.6	-21.0	1.4
2026-02-02 03:23:00	-19.5	-21.0	1.5
2026-02-02 03:24:00	-19.3	-20.9	1.6
2026-02-02 03:25:00	-19.2	-20.8	1.6
2026-02-02 03:26:00	-19.0	-20.7	1.7
2026-02-02 03:27:00	-18.9	-20.7	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 03:28:00	-18.8	-20.5	1.7
2026-02-02 03:29:00	-18.9	-20.4	1.5
2026-02-02 03:30:00	-19.3	-20.9	1.6
2026-02-02 03:31:00	-19.6	-21.9	2.3
2026-02-02 03:32:00	-19.9	-21.9	2.0
2026-02-02 03:33:00	-19.9	-21.9	2.0
2026-02-02 03:34:00	-19.8	-21.8	2.0
2026-02-02 03:35:00	-19.7	-21.5	1.8
2026-02-02 03:36:00	-19.6	-21.2	1.6
2026-02-02 03:37:00	-19.5	-21.2	1.7
2026-02-02 03:38:00	-19.3	-21.2	1.9
2026-02-02 03:39:00	-19.2	-21.2	2.0
2026-02-02 03:40:00	-19.1	-21.1	2.0
2026-02-02 03:41:00	-19.0	-21.0	2.0
2026-02-02 03:42:00	-18.8	-20.8	2.0
2026-02-02 03:43:00	-18.7	-20.7	2.0
2026-02-02 03:44:00	-18.8	-20.5	1.7
2026-02-02 03:45:00	-19.2	-21.0	1.8
2026-02-02 03:46:00	-19.7	-21.9	2.2
2026-02-02 03:47:00	-20.0	-21.9	1.9
2026-02-02 03:48:00	-20.1	-21.9	1.8
2026-02-02 03:49:00	-20.0	-21.8	1.8
2026-02-02 03:50:00	-19.9	-21.7	1.8
2026-02-02 03:51:00	-19.8	-21.4	1.6
2026-02-02 03:52:00	-19.7	-21.2	1.5
2026-02-02 03:53:00	-19.6	-21.1	1.5
2026-02-02 03:54:00	-19.4	-21.0	1.6
2026-02-02 03:55:00	-19.3	-20.9	1.6
2026-02-02 03:56:00	-19.1	-20.8	1.7
2026-02-02 03:57:00	-18.9	-20.7	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 03:58:00	-18.8	-20.7	1.9
2026-02-02 03:59:00	-18.8	-20.4	1.6
2026-02-02 04:00:00	-19.1	-20.5	1.4
2026-02-02 04:01:00	-19.4	-21.7	2.3
2026-02-02 04:02:00	-19.7	-21.9	2.2
2026-02-02 04:03:00	-19.7	-21.9	2.2
2026-02-02 04:04:00	-19.7	-21.8	2.1
2026-02-02 04:05:00	-19.6	-21.6	2.0
2026-02-02 04:06:00	-19.5	-21.3	1.8
2026-02-02 04:07:00	-19.4	-21.2	1.8
2026-02-02 04:08:00	-19.3	-21.1	1.8
2026-02-02 04:09:00	-19.1	-21.1	2.0
2026-02-02 04:10:00	-19.0	-21.0	2.0
2026-02-02 04:11:00	-18.9	-21.0	2.1
2026-02-02 04:12:00	-18.8	-20.8	2.0
2026-02-02 04:13:00	-18.7	-20.7	2.0
2026-02-02 04:14:00	-18.6	-20.5	1.9
2026-02-02 04:15:00	-19.0	-20.5	1.5
2026-02-02 04:16:00	-19.5	-21.6	2.1
2026-02-02 04:17:00	-19.9	-21.9	2.0
2026-02-02 04:18:00	-20.0	-21.9	1.9
2026-02-02 04:19:00	-20.0	-21.8	1.8
2026-02-02 04:20:00	-19.9	-21.7	1.8
2026-02-02 04:21:00	-19.8	-21.5	1.7
2026-02-02 04:22:00	-19.7	-21.2	1.5
2026-02-02 04:23:00	-19.6	-21.1	1.5
2026-02-02 04:24:00	-19.4	-21.0	1.6
2026-02-02 04:25:00	-19.3	-20.9	1.6
2026-02-02 04:26:00	-19.1	-20.8	1.7
2026-02-02 04:27:00	-19.0	-20.7	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 04:28:00	-18.8	-20.7	1.9
2026-02-02 04:29:00	-18.7	-20.5	1.8
2026-02-02 04:30:00	-18.9	-20.4	1.5
2026-02-02 04:31:00	-19.2	-21.1	1.9
2026-02-02 04:32:00	-19.5	-21.8	2.3
2026-02-02 04:33:00	-19.8	-21.9	2.1
2026-02-02 04:34:00	-19.7	-21.8	2.1
2026-02-02 04:35:00	-19.7	-21.7	2.0
2026-02-02 04:36:00	-19.6	-21.6	2.0
2026-02-02 04:37:00	-19.5	-21.4	1.9
2026-02-02 04:38:00	-19.4	-21.4	2.0
2026-02-02 04:39:00	-19.3	-21.3	2.0
2026-02-02 04:40:00	-19.2	-21.2	2.0
2026-02-02 04:41:00	-19.1	-21.1	2.0
2026-02-02 04:42:00	-18.9	-21.0	2.1
2026-02-02 04:43:00	-18.8	-20.9	2.1
2026-02-02 04:44:00	-18.7	-20.7	2.0
2026-02-02 04:45:00	-18.7	-20.6	1.9
2026-02-02 04:46:00	-19.1	-20.8	1.7
2026-02-02 04:47:00	-19.6	-21.8	2.2
2026-02-02 04:48:00	-20.0	-21.9	1.9
2026-02-02 04:49:00	-20.0	-21.9	1.9
2026-02-02 04:50:00	-20.0	-21.8	1.8
2026-02-02 04:51:00	-19.9	-21.7	1.8
2026-02-02 04:52:00	-19.8	-21.4	1.6
2026-02-02 04:53:00	-19.6	-21.1	1.5
2026-02-02 04:54:00	-19.5	-21.0	1.5
2026-02-02 04:55:00	-19.4	-21.0	1.6
2026-02-02 04:56:00	-19.2	-20.9	1.7
2026-02-02 04:57:00	-19.1	-20.8	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 04:58:00	-18.9	-20.7	1.8
2026-02-02 04:59:00	-18.8	-20.7	1.9
2026-02-02 05:00:00	-18.7	-20.4	1.7
2026-02-02 05:01:00	-19.0	-20.7	1.7
2026-02-02 05:02:00	-19.3	-21.4	2.1
2026-02-02 05:03:00	-19.7	-21.9	2.2
2026-02-02 05:04:00	-19.8	-21.9	2.1
2026-02-02 05:05:00	-19.8	-21.8	2.0
2026-02-02 05:06:00	-19.7	-21.7	2.0
2026-02-02 05:07:00	-19.6	-21.5	1.9
2026-02-02 05:08:00	-19.5	-21.3	1.8
2026-02-02 05:09:00	-19.4	-21.2	1.8
2026-02-02 05:10:00	-19.3	-21.2	1.9
2026-02-02 05:11:00	-19.2	-21.1	1.9
2026-02-02 05:12:00	-19.1	-21.0	1.9
2026-02-02 05:13:00	-18.9	-20.9	2.0
2026-02-02 05:14:00	-18.8	-20.9	2.1
2026-02-02 05:15:00	-18.7	-20.7	2.0
2026-02-02 05:16:00	-18.8	-20.5	1.7
2026-02-02 05:17:00	-19.2	-21.1	1.9
2026-02-02 05:18:00	-19.7	-21.9	2.2
2026-02-02 05:19:00	-20.0	-21.9	1.9
2026-02-02 05:20:00	-20.0	-21.9	1.9
2026-02-02 05:21:00	-20.0	-21.8	1.8
2026-02-02 05:22:00	-19.9	-21.7	1.8
2026-02-02 05:23:00	-19.8	-21.3	1.5
2026-02-02 05:24:00	-19.7	-21.2	1.5
2026-02-02 05:25:00	-19.5	-21.1	1.6
2026-02-02 05:26:00	-19.4	-21.0	1.6
2026-02-02 05:27:00	-19.3	-21.0	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 05:28:00	-19.1	-20.8	1.7
2026-02-02 05:29:00	-18.9	-20.5	1.6
2026-02-02 05:30:00	-18.8	-20.3	1.5
2026-02-02 05:31:00	-18.7	-20.0	1.3
2026-02-02 05:32:00	-18.7	-20.0	1.3
2026-02-02 05:33:00	-18.7	-20.9	2.2
2026-02-02 05:34:00	-18.7	-21.4	2.7
2026-02-02 05:35:00	-18.6	-21.7	3.1
2026-02-02 05:36:00	-18.6	-21.8	3.2
2026-02-02 05:37:00	-18.5	-21.9	3.4
2026-02-02 05:38:00	-18.5	-21.9	3.4
2026-02-02 05:39:00	-18.5	-21.9	3.4
2026-02-02 05:40:00	-18.5	-21.8	3.3
2026-02-02 05:41:00	-18.3	-21.6	3.3
2026-02-02 05:42:00	-18.3	-21.2	2.9
2026-02-02 05:43:00	-18.3	-21.0	2.7
2026-02-02 05:44:00	-18.2	-20.9	2.7
2026-02-02 05:45:00	-18.1	-20.8	2.7
2026-02-02 05:46:00	-18.1	-20.7	2.6
2026-02-02 05:47:00	-18.1	-20.5	2.4
2026-02-02 05:48:00	-18.1	-19.5	1.4
2026-02-02 05:49:00	-18.1	-19.0	0.9
2026-02-02 05:50:00	-18.1	-18.6	0.5
2026-02-02 05:51:00	-18.1	-18.5	0.4
2026-02-02 05:52:00	-18.1	-18.9	0.8
2026-02-02 05:53:00	-18.1	-19.2	1.1
2026-02-02 05:54:00	-18.1	-19.6	1.5
2026-02-02 05:55:00	-18.1	-19.9	1.8
2026-02-02 05:56:00	-18.2	-20.3	2.1
2026-02-02 05:57:00	-18.4	-20.6	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 05:58:00	-18.5	-21.0	2.5
2026-02-02 05:59:00	-18.6	-21.2	2.6
2026-02-02 06:00:00	-18.7	-21.6	2.9
2026-02-02 06:01:00	-18.8	-21.7	2.9
2026-02-02 06:02:00	-18.9	-21.9	3.0
2026-02-02 06:03:00	-19.1	-21.9	2.8
2026-02-02 06:04:00	-19.2	-21.9	2.7
2026-02-02 06:05:00	-19.2	-21.7	2.5
2026-02-02 06:06:00	-19.1	-21.5	2.4
2026-02-02 06:07:00	-18.9	-21.0	2.1
2026-02-02 06:08:00	-18.8	-20.9	2.1
2026-02-02 06:09:00	-18.5	-20.7	2.2
2026-02-02 06:10:00	-18.4	-20.6	2.2
2026-02-02 06:11:00	-18.2	-20.5	2.3
2026-02-02 06:12:00	-18.1	-20.3	2.2
2026-02-02 06:13:00	-18.1	-19.8	1.7
2026-02-02 06:14:00	-18.4	-20.0	1.6
2026-02-02 06:15:00	-18.8	-20.7	1.9
2026-02-02 06:16:00	-19.1	-21.6	2.5
2026-02-02 06:17:00	-19.4	-21.9	2.5
2026-02-02 06:18:00	-19.5	-21.9	2.4
2026-02-02 06:19:00	-19.5	-21.7	2.2
2026-02-02 06:20:00	-19.4	-21.4	2.0
2026-02-02 06:21:00	-19.3	-21.2	1.9
2026-02-02 06:22:00	-19.1	-20.9	1.8
2026-02-02 06:23:00	-19.0	-20.7	1.7
2026-02-02 06:24:00	-18.8	-20.6	1.8
2026-02-02 06:25:00	-18.7	-20.5	1.8
2026-02-02 06:26:00	-18.6	-20.4	1.8
2026-02-02 06:27:00	-18.4	-20.3	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 06:28:00	-18.6	-20.3	1.7
2026-02-02 06:29:00	-19.0	-21.0	2.0
2026-02-02 06:30:00	-19.3	-21.8	2.5
2026-02-02 06:31:00	-19.6	-21.9	2.3
2026-02-02 06:32:00	-19.7	-21.8	2.1
2026-02-02 06:33:00	-19.6	-21.7	2.1
2026-02-02 06:34:00	-19.5	-21.5	2.0
2026-02-02 06:35:00	-19.4	-21.2	1.8
2026-02-02 06:36:00	-19.2	-21.2	2.0
2026-02-02 06:37:00	-19.1	-21.2	2.1
2026-02-02 06:38:00	-18.9	-21.1	2.2
2026-02-02 06:39:00	-18.8	-20.9	2.1
2026-02-02 06:40:00	-18.7	-20.8	2.1
2026-02-02 06:41:00	-18.6	-20.7	2.1
2026-02-02 06:42:00	-18.5	-20.4	1.9
2026-02-02 06:43:00	-18.7	-20.6	1.9
2026-02-02 06:44:00	-19.2	-21.5	2.3
2026-02-02 06:45:00	-19.4	-21.9	2.5
2026-02-02 06:46:00	-19.6	-21.9	2.3
2026-02-02 06:47:00	-19.6	-21.8	2.2
2026-02-02 06:48:00	-19.5	-21.7	2.2
2026-02-02 06:49:00	-19.4	-21.5	2.1
2026-02-02 06:50:00	-19.3	-21.4	2.1
2026-02-02 06:51:00	-19.2	-21.3	2.1
2026-02-02 06:52:00	-19.0	-21.3	2.3
2026-02-02 06:53:00	-18.9	-21.2	2.3
2026-02-02 06:54:00	-18.8	-21.1	2.3
2026-02-02 06:55:00	-18.6	-20.9	2.3
2026-02-02 06:56:00	-18.5	-20.8	2.3
2026-02-02 06:57:00	-18.5	-20.6	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 06:58:00	-18.8	-20.5	1.7
2026-02-02 06:59:00	-19.3	-21.5	2.2
2026-02-02 07:00:00	-19.9	-21.9	2.0
2026-02-02 07:01:00	-20.0	-21.9	1.9
2026-02-02 07:02:00	-20.0	-21.8	1.8
2026-02-02 07:03:00	-19.9	-21.7	1.8
2026-02-02 07:04:00	-19.8	-21.5	1.7
2026-02-02 07:05:00	-19.7	-21.2	1.5
2026-02-02 07:06:00	-19.6	-21.0	1.4
2026-02-02 07:07:00	-19.5	-21.0	1.5
2026-02-02 07:08:00	-19.3	-20.9	1.6
2026-02-02 07:09:00	-19.1	-20.8	1.7
2026-02-02 07:10:00	-19.0	-20.7	1.7
2026-02-02 07:11:00	-18.8	-20.7	1.9
2026-02-02 07:12:00	-18.7	-20.5	1.8
2026-02-02 07:13:00	-18.8	-20.4	1.6
2026-02-02 07:14:00	-19.2	-20.9	1.7
2026-02-02 07:15:00	-19.5	-21.8	2.3
2026-02-02 07:16:00	-19.7	-21.9	2.2
2026-02-02 07:17:00	-19.8	-21.8	2.0
2026-02-02 07:18:00	-19.7	-21.7	2.0
2026-02-02 07:19:00	-19.6	-21.6	2.0
2026-02-02 07:20:00	-19.5	-21.3	1.8
2026-02-02 07:21:00	-19.4	-21.3	1.9
2026-02-02 07:22:00	-19.2	-21.2	2.0
2026-02-02 07:23:00	-19.1	-21.2	2.1
2026-02-02 07:24:00	-19.0	-21.1	2.1
2026-02-02 07:25:00	-18.9	-21.0	2.1
2026-02-02 07:26:00	-18.8	-20.9	2.1
2026-02-02 07:27:00	-18.6	-20.7	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 07:28:00	-18.6	-20.6	2.0
2026-02-02 07:29:00	-19.0	-20.6	1.6
2026-02-02 07:30:00	-19.5	-21.7	2.2
2026-02-02 07:31:00	-20.0	-21.9	1.9
2026-02-02 07:32:00	-20.0	-21.9	1.9
2026-02-02 07:33:00	-20.0	-21.8	1.8
2026-02-02 07:34:00	-19.9	-21.7	1.8
2026-02-02 07:35:00	-19.8	-21.5	1.7
2026-02-02 07:36:00	-19.7	-21.2	1.5
2026-02-02 07:37:00	-19.6	-21.0	1.4
2026-02-02 07:38:00	-19.4	-20.9	1.5
2026-02-02 07:39:00	-19.2	-20.8	1.6
2026-02-02 07:40:00	-19.1	-20.8	1.7
2026-02-02 07:41:00	-18.9	-20.7	1.8
2026-02-02 07:42:00	-18.8	-20.6	1.8
2026-02-02 07:43:00	-18.7	-20.4	1.7
2026-02-02 07:44:00	-18.9	-20.4	1.5
2026-02-02 07:45:00	-19.3	-21.3	2.0
2026-02-02 07:46:00	-19.6	-21.8	2.2
2026-02-02 07:47:00	-19.8	-21.9	2.1
2026-02-02 07:48:00	-19.7	-21.8	2.1
2026-02-02 07:49:00	-19.7	-21.7	2.0
2026-02-02 07:50:00	-19.6	-21.5	1.9
2026-02-02 07:51:00	-19.5	-21.3	1.8
2026-02-02 07:52:00	-19.4	-21.3	1.9
2026-02-02 07:53:00	-19.2	-21.2	2.0
2026-02-02 07:54:00	-19.1	-21.2	2.1
2026-02-02 07:55:00	-19.0	-21.1	2.1
2026-02-02 07:56:00	-18.8	-21.0	2.2
2026-02-02 07:57:00	-18.7	-20.9	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 07:58:00	-18.6	-20.7	2.1
2026-02-02 07:59:00	-18.7	-20.5	1.8
2026-02-02 08:00:00	-19.1	-21.0	1.9
2026-02-02 08:01:00	-19.6	-21.8	2.2
2026-02-02 08:02:00	-19.9	-21.9	2.0
2026-02-02 08:03:00	-19.9	-21.9	2.0
2026-02-02 08:04:00	-19.9	-21.8	1.9
2026-02-02 08:05:00	-19.8	-21.7	1.9
2026-02-02 08:06:00	-19.7	-21.4	1.7
2026-02-02 08:07:00	-19.6	-21.2	1.6
2026-02-02 08:08:00	-19.5	-21.1	1.6
2026-02-02 08:09:00	-19.4	-21.0	1.6
2026-02-02 08:10:00	-19.2	-21.0	1.8
2026-02-02 08:11:00	-19.1	-20.9	1.8
2026-02-02 08:12:00	-19.0	-20.8	1.8
2026-02-02 08:13:00	-18.8	-20.7	1.9
2026-02-02 08:14:00	-18.7	-20.5	1.8
2026-02-02 08:15:00	-18.9	-20.4	1.5
2026-02-02 08:16:00	-19.3	-21.1	1.8
2026-02-02 08:17:00	-19.6	-21.8	2.2
2026-02-02 08:18:00	-19.8	-21.9	2.1
2026-02-02 08:19:00	-19.7	-21.8	2.1
2026-02-02 08:20:00	-19.7	-21.7	2.0
2026-02-02 08:21:00	-19.6	-21.5	1.9
2026-02-02 08:22:00	-19.5	-21.3	1.8
2026-02-02 08:23:00	-19.4	-21.3	1.9
2026-02-02 08:24:00	-19.2	-21.3	2.1
2026-02-02 08:25:00	-19.1	-21.2	2.1
2026-02-02 08:26:00	-19.0	-21.1	2.1
2026-02-02 08:27:00	-18.8	-21.0	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 08:28:00	-18.7	-20.8	2.1
2026-02-02 08:29:00	-18.6	-20.7	2.1
2026-02-02 08:30:00	-18.7	-20.5	1.8
2026-02-02 08:31:00	-19.2	-21.3	2.1
2026-02-02 08:32:00	-19.7	-21.9	2.2
2026-02-02 08:33:00	-20.0	-21.9	1.9
2026-02-02 08:34:00	-20.0	-21.8	1.8
2026-02-02 08:35:00	-20.0	-21.7	1.7
2026-02-02 08:36:00	-19.9	-21.5	1.6
2026-02-02 08:37:00	-19.7	-21.4	1.7
2026-02-02 08:38:00	-19.6	-21.1	1.5
2026-02-02 08:39:00	-19.5	-21.0	1.5
2026-02-02 08:40:00	-19.4	-21.0	1.6
2026-02-02 08:41:00	-19.2	-20.9	1.7
2026-02-02 08:42:00	-19.1	-20.8	1.7
2026-02-02 08:43:00	-18.9	-20.7	1.8
2026-02-02 08:44:00	-18.8	-20.7	1.9
2026-02-02 08:45:00	-18.7	-20.4	1.7
2026-02-02 08:46:00	-18.9	-20.5	1.6
2026-02-02 08:47:00	-19.3	-21.5	2.2
2026-02-02 08:48:00	-19.7	-21.9	2.2
2026-02-02 08:49:00	-19.8	-21.9	2.1
2026-02-02 08:50:00	-19.7	-21.8	2.1
2026-02-02 08:51:00	-19.6	-21.7	2.1
2026-02-02 08:52:00	-19.6	-21.4	1.8
2026-02-02 08:53:00	-19.4	-21.2	1.8
2026-02-02 08:54:00	-19.3	-21.2	1.9
2026-02-02 08:55:00	-19.2	-21.2	2.0
2026-02-02 08:56:00	-19.1	-21.1	2.0
2026-02-02 08:57:00	-18.9	-21.0	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 08:58:00	-18.8	-20.9	2.1
2026-02-02 08:59:00	-18.7	-20.8	2.1
2026-02-02 09:00:00	-18.6	-20.6	2.0
2026-02-02 09:01:00	-18.9	-20.6	1.7
2026-02-02 09:02:00	-19.4	-21.6	2.2
2026-02-02 09:03:00	-19.9	-21.9	2.0
2026-02-02 09:04:00	-20.0	-21.9	1.9
2026-02-02 09:05:00	-20.0	-21.8	1.8
2026-02-02 09:06:00	-20.0	-21.7	1.7
2026-02-02 09:07:00	-19.8	-21.6	1.8
2026-02-02 09:08:00	-19.7	-21.3	1.6
2026-02-02 09:09:00	-19.6	-21.2	1.6
2026-02-02 09:10:00	-19.4	-21.1	1.7
2026-02-02 09:11:00	-19.3	-21.0	1.7
2026-02-02 09:12:00	-19.1	-20.9	1.8
2026-02-02 09:13:00	-19.0	-20.8	1.8
2026-02-02 09:14:00	-18.8	-20.7	1.9
2026-02-02 09:15:00	-18.7	-20.7	2.0
2026-02-02 09:16:00	-18.7	-20.4	1.7
2026-02-02 09:17:00	-19.0	-20.8	1.8
2026-02-02 09:18:00	-19.4	-21.7	2.3
2026-02-02 09:19:00	-19.7	-21.9	2.2
2026-02-02 09:20:00	-19.9	-21.9	2.0
2026-02-02 09:21:00	-19.8	-21.8	2.0
2026-02-02 09:22:00	-19.7	-21.7	2.0
2026-02-02 09:23:00	-19.6	-21.4	1.8
2026-02-02 09:24:00	-19.5	-21.2	1.7
2026-02-02 09:25:00	-19.3	-21.2	1.9
2026-02-02 09:26:00	-19.2	-21.2	2.0
2026-02-02 09:27:00	-19.1	-21.1	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 09:28:00	-19.0	-21.0	2.0
2026-02-02 09:29:00	-18.8	-20.9	2.1
2026-02-02 09:30:00	-18.7	-20.8	2.1
2026-02-02 09:31:00	-18.6	-20.7	2.1
2026-02-02 09:32:00	-18.7	-20.5	1.8
2026-02-02 09:33:00	-19.2	-21.2	2.0
2026-02-02 09:34:00	-19.7	-21.9	2.2
2026-02-02 09:35:00	-20.0	-21.9	1.9
2026-02-02 09:36:00	-20.0	-21.8	1.8
2026-02-02 09:37:00	-20.0	-21.7	1.7
2026-02-02 09:38:00	-19.9	-21.6	1.7
2026-02-02 09:39:00	-19.8	-21.4	1.6
2026-02-02 09:40:00	-19.6	-21.2	1.6
2026-02-02 09:41:00	-19.5	-21.1	1.6
2026-02-02 09:42:00	-19.3	-21.0	1.7
2026-02-02 09:43:00	-19.2	-21.0	1.8
2026-02-02 09:44:00	-19.0	-20.9	1.9
2026-02-02 09:45:00	-18.9	-20.8	1.9
2026-02-02 09:46:00	-18.8	-20.7	1.9
2026-02-02 09:47:00	-18.7	-20.5	1.8
2026-02-02 09:48:00	-19.0	-20.6	1.6
2026-02-02 09:49:00	-19.3	-21.3	2.0
2026-02-02 09:50:00	-19.7	-21.8	2.1
2026-02-02 09:51:00	-19.8	-21.9	2.1
2026-02-02 09:52:00	-19.9	-21.8	1.9
2026-02-02 09:53:00	-19.8	-21.7	1.9
2026-02-02 09:54:00	-19.7	-21.4	1.7
2026-02-02 09:55:00	-19.5	-21.2	1.7
2026-02-02 09:56:00	-19.4	-21.2	1.8
2026-02-02 09:57:00	-19.3	-21.2	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 09:58:00	-19.2	-21.1	1.9
2026-02-02 09:59:00	-19.0	-21.0	2.0
2026-02-02 10:00:00	-18.9	-20.9	2.0
2026-02-02 10:01:00	-18.8	-20.7	1.9
2026-02-02 10:02:00	-18.6	-20.6	2.0
2026-02-02 10:03:00	-18.8	-20.5	1.7
2026-02-02 10:04:00	-19.3	-21.4	2.1
2026-02-02 10:05:00	-19.8	-21.9	2.1
2026-02-02 10:06:00	-20.0	-21.9	1.9
2026-02-02 10:07:00	-20.0	-21.8	1.8
2026-02-02 10:08:00	-19.9	-21.7	1.8
2026-02-02 10:09:00	-19.8	-21.6	1.8
2026-02-02 10:10:00	-19.7	-21.3	1.6
2026-02-02 10:11:00	-19.6	-21.3	1.7
2026-02-02 10:12:00	-19.4	-21.2	1.8
2026-02-02 10:13:00	-19.3	-21.0	1.7
2026-02-02 10:14:00	-19.1	-21.0	1.9
2026-02-02 10:15:00	-19.0	-20.9	1.9
2026-02-02 10:16:00	-18.8	-20.8	2.0
2026-02-02 10:17:00	-18.7	-20.6	1.9
2026-02-02 10:18:00	-18.8	-20.4	1.6
2026-02-02 10:19:00	-19.2	-20.9	1.7
2026-02-02 10:20:00	-19.5	-21.9	2.4
2026-02-02 10:21:00	-19.8	-21.9	2.1
2026-02-02 10:22:00	-19.9	-21.9	2.0
2026-02-02 10:23:00	-19.8	-21.8	2.0
2026-02-02 10:24:00	-19.7	-21.6	1.9
2026-02-02 10:25:00	-19.6	-21.3	1.7
2026-02-02 10:26:00	-19.4	-21.3	1.9
2026-02-02 10:27:00	-19.3	-21.3	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 10:28:00	-19.2	-21.2	2.0
2026-02-02 10:29:00	-19.1	-21.1	2.0
2026-02-02 10:30:00	-19.0	-21.0	2.0
2026-02-02 10:31:00	-18.8	-20.9	2.1
2026-02-02 10:32:00	-18.7	-20.7	2.0
2026-02-02 10:33:00	-18.7	-20.6	1.9
2026-02-02 10:34:00	-19.0	-20.7	1.7
2026-02-02 10:35:00	-19.5	-21.8	2.3
2026-02-02 10:36:00	-20.0	-21.9	1.9
2026-02-02 10:37:00	-20.1	-21.9	1.8
2026-02-02 10:38:00	-20.0	-21.8	1.8
2026-02-02 10:39:00	-19.9	-21.7	1.8
2026-02-02 10:40:00	-19.8	-21.5	1.7
2026-02-02 10:41:00	-19.7	-21.2	1.5
2026-02-02 10:42:00	-19.5	-21.1	1.6
2026-02-02 10:43:00	-19.4	-21.0	1.6
2026-02-02 10:44:00	-19.2	-21.0	1.8
2026-02-02 10:45:00	-19.1	-20.9	1.8
2026-02-02 10:46:00	-18.9	-20.8	1.9
2026-02-02 10:47:00	-18.8	-20.7	1.9
2026-02-02 10:48:00	-18.7	-20.6	1.9
2026-02-02 10:49:00	-18.7	-20.4	1.7
2026-02-02 10:50:00	-19.1	-20.6	1.5
2026-02-02 10:51:00	-19.4	-21.7	2.3
2026-02-02 10:52:00	-19.7	-21.9	2.2
2026-02-02 10:53:00	-19.7	-21.9	2.2
2026-02-02 10:54:00	-19.7	-21.8	2.1
2026-02-02 10:55:00	-19.6	-21.6	2.0
2026-02-02 10:56:00	-19.5	-21.3	1.8
2026-02-02 10:57:00	-19.4	-21.2	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 10:58:00	-19.3	-21.2	1.9
2026-02-02 10:59:00	-19.2	-21.2	2.0
2026-02-02 11:00:00	-19.0	-21.1	2.1
2026-02-02 11:01:00	-18.9	-21.0	2.1
2026-02-02 11:02:00	-18.8	-20.8	2.0
2026-02-02 11:03:00	-18.7	-20.7	2.0
2026-02-02 11:04:00	-18.6	-20.6	2.0
2026-02-02 11:05:00	-19.0	-20.5	1.5
2026-02-02 11:06:00	-19.5	-21.5	2.0
2026-02-02 11:07:00	-19.9	-21.9	2.0
2026-02-02 11:08:00	-20.0	-21.9	1.9
2026-02-02 11:09:00	-20.0	-21.8	1.8
2026-02-02 11:10:00	-19.9	-21.7	1.8
2026-02-02 11:11:00	-19.8	-21.6	1.8
2026-02-02 11:12:00	-19.7	-21.3	1.6
2026-02-02 11:13:00	-19.6	-21.2	1.6
2026-02-02 11:14:00	-19.4	-21.1	1.7
2026-02-02 11:15:00	-19.3	-21.0	1.7
2026-02-02 11:16:00	-19.1	-21.0	1.9
2026-02-02 11:17:00	-19.0	-20.9	1.9
2026-02-02 11:18:00	-18.8	-20.8	2.0
2026-02-02 11:19:00	-18.7	-20.6	1.9
2026-02-02 11:20:00	-18.8	-20.5	1.7
2026-02-02 11:21:00	-19.2	-20.9	1.7
2026-02-02 11:22:00	-19.6	-21.8	2.2
2026-02-02 11:23:00	-19.8	-21.9	2.1
2026-02-02 11:24:00	-19.8	-21.8	2.0
2026-02-02 11:25:00	-19.7	-21.7	2.0
2026-02-02 11:26:00	-19.6	-21.5	1.9
2026-02-02 11:27:00	-19.5	-21.3	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 11:28:00	-19.3	-21.3	2.0
2026-02-02 11:29:00	-19.0	-21.2	2.2
2026-02-02 11:30:00	-18.8	-21.0	2.2
2026-02-02 11:31:00	-18.6	-21.0	2.4
2026-02-02 11:32:00	-18.5	-20.8	2.3
2026-02-02 11:33:00	-18.4	-20.6	2.2
2026-02-02 11:34:00	-18.2	-20.1	1.9
2026-02-02 11:35:00	-18.1	-19.6	1.5
2026-02-02 11:36:00	-18.1	-20.2	2.1
2026-02-02 11:37:00	-18.1	-20.6	2.5
2026-02-02 11:38:00	-18.1	-21.1	3.0
2026-02-02 11:39:00	-18.1	-21.5	3.4
2026-02-02 11:40:00	-18.1	-21.8	3.7
2026-02-02 11:41:00	-18.1	-21.9	3.8
2026-02-02 11:42:00	-18.2	-21.4	3.2
2026-02-02 11:43:00	-18.3	-20.7	2.4
2026-02-02 11:44:00	-18.4	-20.4	2.0
2026-02-02 11:45:00	-18.4	-20.6	2.2
2026-02-02 11:46:00	-18.9	-21.0	2.1
2026-02-02 11:47:00	-19.2	-21.3	2.1
2026-02-02 11:48:00	-18.9	-21.4	2.5
2026-02-02 11:49:00	-18.7	-21.4	2.7
2026-02-02 11:50:00	-18.7	-21.5	2.8
2026-02-02 11:51:00	-18.6	-21.5	2.9
2026-02-02 11:52:00	-18.6	-21.6	3.0
2026-02-02 11:53:00	-18.5	-21.7	3.2
2026-02-02 11:54:00	-18.4	-21.8	3.4
2026-02-02 11:55:00	-18.7	-21.8	3.1
2026-02-02 11:56:00	-18.9	-21.9	3.0
2026-02-02 11:57:00	-19.2	-21.9	2.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 11:58:00	-19.3	-21.8	2.5
2026-02-02 11:59:00	-19.2	-21.7	2.5
2026-02-02 12:00:00	-19.0	-21.4	2.4
2026-02-02 12:01:00	-18.9	-21.2	2.3
2026-02-02 12:02:00	-18.6	-21.1	2.5
2026-02-02 12:03:00	-18.5	-21.0	2.5
2026-02-02 12:04:00	-18.4	-20.8	2.4
2026-02-02 12:05:00	-18.3	-20.7	2.4
2026-02-02 12:06:00	-18.2	-20.5	2.3
2026-02-02 12:07:00	-18.1	-20.3	2.2
2026-02-02 12:08:00	-18.1	-19.6	1.5
2026-02-02 12:09:00	-18.5	-20.1	1.6
2026-02-02 12:10:00	-18.9	-20.8	1.9
2026-02-02 12:11:00	-19.2	-21.6	2.4
2026-02-02 12:12:00	-19.5	-21.9	2.4
2026-02-02 12:13:00	-19.7	-21.9	2.2
2026-02-02 12:14:00	-19.6	-21.8	2.2
2026-02-02 12:15:00	-19.5	-21.6	2.1
2026-02-02 12:16:00	-19.3	-21.3	2.0
2026-02-02 12:17:00	-19.2	-21.0	1.8
2026-02-02 12:18:00	-19.0	-20.8	1.8
2026-02-02 12:19:00	-18.8	-20.7	1.9
2026-02-02 12:20:00	-18.6	-20.6	2.0
2026-02-02 12:21:00	-18.5	-20.5	2.0
2026-02-02 12:22:00	-18.4	-20.4	2.0
2026-02-02 12:23:00	-18.5	-20.3	1.8
2026-02-02 12:24:00	-18.9	-20.9	2.0
2026-02-02 12:25:00	-19.3	-21.9	2.6
2026-02-02 12:26:00	-19.5	-21.9	2.4
2026-02-02 12:27:00	-19.6	-21.9	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 12:28:00	-19.5	-21.8	2.3
2026-02-02 12:29:00	-19.4	-21.7	2.3
2026-02-02 12:30:00	-19.2	-21.4	2.2
2026-02-02 12:31:00	-19.1	-21.2	2.1
2026-02-02 12:32:00	-19.0	-21.1	2.1
2026-02-02 12:33:00	-18.8	-21.0	2.2
2026-02-02 12:34:00	-18.6	-20.9	2.3
2026-02-02 12:35:00	-18.5	-20.7	2.2
2026-02-02 12:36:00	-18.4	-20.6	2.2
2026-02-02 12:37:00	-18.3	-20.4	2.1
2026-02-02 12:38:00	-18.6	-20.3	1.7
2026-02-02 12:39:00	-19.1	-21.2	2.1
2026-02-02 12:40:00	-19.7	-21.8	2.1
2026-02-02 12:41:00	-19.9	-21.9	2.0
2026-02-02 12:42:00	-19.9	-21.9	2.0
2026-02-02 12:43:00	-19.8	-21.8	2.0
2026-02-02 12:44:00	-19.8	-21.7	1.9
2026-02-02 12:45:00	-19.7	-21.3	1.6
2026-02-02 12:46:00	-19.5	-21.0	1.5
2026-02-02 12:47:00	-19.3	-21.0	1.7
2026-02-02 12:48:00	-19.2	-20.9	1.7
2026-02-02 12:49:00	-19.0	-20.8	1.8
2026-02-02 12:50:00	-18.8	-20.8	2.0
2026-02-02 12:51:00	-18.7	-20.7	2.0
2026-02-02 12:52:00	-18.6	-20.7	2.1
2026-02-02 12:53:00	-18.4	-20.4	2.0
2026-02-02 12:54:00	-18.7	-20.4	1.7
2026-02-02 12:55:00	-19.2	-21.1	1.9
2026-02-02 12:56:00	-19.6	-21.8	2.2
2026-02-02 12:57:00	-19.7	-21.9	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 12:58:00	-19.7	-21.8	2.1
2026-02-02 12:59:00	-19.6	-21.7	2.1
2026-02-02 13:00:00	-19.5	-21.6	2.1
2026-02-02 13:01:00	-19.3	-21.4	2.1
2026-02-02 13:02:00	-19.2	-21.2	2.0
2026-02-02 13:03:00	-19.0	-21.0	2.0
2026-02-02 13:04:00	-18.8	-21.0	2.2
2026-02-02 13:05:00	-18.7	-20.9	2.2
2026-02-02 13:06:00	-18.5	-20.8	2.3
2026-02-02 13:07:00	-18.4	-20.7	2.3
2026-02-02 13:08:00	-18.2	-20.6	2.4
2026-02-02 13:09:00	-18.5	-20.4	1.9
2026-02-02 13:10:00	-19.0	-21.1	2.1
2026-02-02 13:11:00	-19.6	-21.9	2.3
2026-02-02 13:12:00	-19.9	-21.9	2.0
2026-02-02 13:13:00	-19.9	-21.9	2.0
2026-02-02 13:14:00	-19.9	-21.8	1.9
2026-02-02 13:15:00	-19.8	-21.7	1.9
2026-02-02 13:16:00	-19.6	-21.4	1.8
2026-02-02 13:17:00	-19.5	-21.2	1.7
2026-02-02 13:18:00	-19.3	-21.1	1.8
2026-02-02 13:19:00	-19.2	-21.1	1.9
2026-02-02 13:20:00	-19.1	-21.0	1.9
2026-02-02 13:21:00	-18.9	-20.9	2.0
2026-02-02 13:22:00	-18.8	-20.9	2.1
2026-02-02 13:23:00	-18.7	-20.8	2.1
2026-02-02 13:24:00	-18.6	-20.6	2.0
2026-02-02 13:25:00	-18.9	-20.6	1.7
2026-02-02 13:26:00	-19.3	-21.3	2.0
2026-02-02 13:27:00	-19.7	-21.8	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 13:28:00	-19.9	-21.9	2.0
2026-02-02 13:29:00	-19.8	-21.8	2.0
2026-02-02 13:30:00	-19.7	-21.7	2.0
2026-02-02 13:31:00	-19.6	-21.6	2.0
2026-02-02 13:32:00	-19.5	-21.3	1.8
2026-02-02 13:33:00	-19.3	-21.3	2.0
2026-02-02 13:34:00	-19.1	-21.3	2.2
2026-02-02 13:35:00	-19.0	-21.2	2.2
2026-02-02 13:36:00	-18.8	-21.1	2.3
2026-02-02 13:37:00	-18.7	-21.0	2.3
2026-02-02 13:38:00	-18.5	-20.9	2.4
2026-02-02 13:39:00	-18.4	-20.7	2.3
2026-02-02 13:40:00	-18.5	-20.6	2.1
2026-02-02 13:41:00	-18.9	-21.0	2.1
2026-02-02 13:42:00	-19.6	-21.8	2.2
2026-02-02 13:43:00	-19.9	-21.9	2.0
2026-02-02 13:44:00	-20.0	-21.9	1.9
2026-02-02 13:45:00	-19.9	-21.8	1.9
2026-02-02 13:46:00	-19.8	-21.6	1.8
2026-02-02 13:47:00	-19.7	-21.3	1.6
2026-02-02 13:48:00	-19.5	-21.3	1.8
2026-02-02 13:49:00	-19.4	-21.2	1.8
2026-02-02 13:50:00	-19.2	-21.2	2.0
2026-02-02 13:51:00	-19.1	-21.1	2.0
2026-02-02 13:52:00	-18.9	-21.0	2.1
2026-02-02 13:53:00	-18.7	-21.0	2.3
2026-02-02 13:54:00	-18.6	-21.0	2.4
2026-02-02 13:55:00	-18.5	-20.6	2.1
2026-02-02 13:56:00	-18.7	-20.5	1.8
2026-02-02 13:57:00	-19.1	-21.0	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 13:58:00	-19.5	-21.8	2.3
2026-02-02 13:59:00	-19.7	-21.9	2.2
2026-02-02 14:00:00	-19.7	-21.8	2.1
2026-02-02 14:01:00	-19.6	-21.7	2.1
2026-02-02 14:02:00	-19.5	-21.6	2.1
2026-02-02 14:03:00	-19.3	-21.4	2.1
2026-02-02 14:04:00	-19.2	-21.2	2.0
2026-02-02 14:05:00	-19.0	-21.1	2.1
2026-02-02 14:06:00	-18.9	-21.1	2.2
2026-02-02 14:07:00	-18.7	-21.0	2.3
2026-02-02 14:08:00	-18.6	-20.9	2.3
2026-02-02 14:09:00	-18.5	-20.8	2.3
2026-02-02 14:10:00	-18.4	-20.7	2.3
2026-02-02 14:11:00	-18.6	-20.5	1.9
2026-02-02 14:12:00	-19.1	-21.1	2.0
2026-02-02 14:13:00	-19.7	-21.9	2.2
2026-02-02 14:14:00	-20.0	-21.9	1.9
2026-02-02 14:15:00	-20.0	-21.9	1.9
2026-02-02 14:16:00	-19.9	-21.8	1.9
2026-02-02 14:17:00	-19.8	-21.7	1.9
2026-02-02 14:18:00	-19.6	-21.3	1.7
2026-02-02 14:19:00	-19.5	-21.2	1.7
2026-02-02 14:20:00	-19.4	-21.2	1.8
2026-02-02 14:21:00	-19.2	-21.1	1.9
2026-02-02 14:22:00	-19.1	-21.0	1.9
2026-02-02 14:23:00	-18.9	-21.0	2.1
2026-02-02 14:24:00	-18.8	-20.9	2.1
2026-02-02 14:25:00	-18.6	-20.8	2.2
2026-02-02 14:26:00	-18.5	-20.6	2.1
2026-02-02 14:27:00	-18.8	-20.5	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 14:28:00	-19.3	-21.2	1.9
2026-02-02 14:29:00	-19.7	-21.8	2.1
2026-02-02 14:30:00	-19.8	-21.9	2.1
2026-02-02 14:31:00	-19.7	-21.8	2.1
2026-02-02 14:32:00	-19.6	-21.7	2.1
2026-02-02 14:33:00	-19.5	-21.5	2.0
2026-02-02 14:34:00	-19.3	-21.3	2.0
2026-02-02 14:35:00	-19.2	-21.3	2.1
2026-02-02 14:36:00	-19.0	-21.2	2.2
2026-02-02 14:37:00	-18.9	-21.1	2.2
2026-02-02 14:38:00	-18.7	-21.0	2.3
2026-02-02 14:39:00	-18.6	-20.9	2.3
2026-02-02 14:40:00	-18.4	-20.8	2.4
2026-02-02 14:41:00	-18.4	-20.7	2.3
2026-02-02 14:42:00	-18.6	-20.5	1.9
2026-02-02 14:43:00	-19.1	-21.2	2.1
2026-02-02 14:44:00	-19.7	-21.9	2.2
2026-02-02 14:45:00	-19.9	-21.9	2.0
2026-02-02 14:46:00	-19.9	-21.9	2.0
2026-02-02 14:47:00	-19.8	-21.8	2.0
2026-02-02 14:48:00	-19.7	-21.7	2.0
2026-02-02 14:49:00	-19.6	-21.3	1.7
2026-02-02 14:50:00	-19.5	-21.3	1.8
2026-02-02 14:51:00	-19.3	-21.2	1.9
2026-02-02 14:52:00	-19.2	-21.1	1.9
2026-02-02 14:53:00	-19.0	-21.1	2.1
2026-02-02 14:54:00	-18.9	-21.0	2.1
2026-02-02 14:55:00	-18.7	-20.9	2.2
2026-02-02 14:56:00	-18.6	-20.9	2.3
2026-02-02 14:57:00	-18.5	-20.6	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 14:58:00	-18.7	-20.5	1.8
2026-02-02 14:59:00	-19.1	-21.2	2.1
2026-02-02 15:00:00	-19.5	-21.8	2.3
2026-02-02 15:01:00	-19.6	-21.9	2.3
2026-02-02 15:02:00	-19.6	-21.8	2.2
2026-02-02 15:03:00	-19.5	-21.7	2.2
2026-02-02 15:04:00	-19.4	-21.6	2.2
2026-02-02 15:05:00	-19.3	-21.3	2.0
2026-02-02 15:06:00	-19.1	-21.2	2.1
2026-02-02 15:07:00	-19.0	-21.1	2.1
2026-02-02 15:08:00	-18.8	-21.0	2.2
2026-02-02 15:09:00	-18.7	-20.9	2.2
2026-02-02 15:10:00	-18.5	-20.9	2.4
2026-02-02 15:11:00	-18.4	-20.7	2.3
2026-02-02 15:12:00	-18.4	-20.6	2.2
2026-02-02 15:13:00	-18.8	-20.6	1.8
2026-02-02 15:14:00	-19.3	-21.7	2.4
2026-02-02 15:15:00	-19.8	-21.9	2.1
2026-02-02 15:16:00	-20.0	-21.9	1.9
2026-02-02 15:17:00	-19.9	-21.8	1.9
2026-02-02 15:18:00	-19.8	-21.7	1.9
2026-02-02 15:19:00	-19.7	-21.5	1.8
2026-02-02 15:20:00	-19.6	-21.3	1.7
2026-02-02 15:21:00	-19.4	-21.3	1.9
2026-02-02 15:22:00	-19.3	-21.2	1.9
2026-02-02 15:23:00	-19.1	-21.1	2.0
2026-02-02 15:24:00	-18.9	-21.1	2.2
2026-02-02 15:25:00	-18.8	-21.0	2.2
2026-02-02 15:26:00	-18.7	-21.0	2.3
2026-02-02 15:27:00	-18.6	-20.8	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 15:28:00	-18.6	-20.5	1.9
2026-02-02 15:29:00	-19.1	-20.9	1.8
2026-02-02 15:30:00	-19.5	-21.7	2.2
2026-02-02 15:31:00	-19.9	-21.9	2.0
2026-02-02 15:32:00	-19.9	-21.9	2.0
2026-02-02 15:33:00	-19.8	-21.8	2.0
2026-02-02 15:34:00	-19.7	-21.7	2.0
2026-02-02 15:35:00	-19.6	-21.6	2.0
2026-02-02 15:36:00	-19.4	-21.3	1.9
2026-02-02 15:37:00	-19.2	-21.1	1.9
2026-02-02 15:38:00	-19.1	-21.1	2.0
2026-02-02 15:39:00	-18.9	-21.0	2.1
2026-02-02 15:40:00	-18.8	-20.9	2.1
2026-02-02 15:41:00	-18.6	-20.9	2.3
2026-02-02 15:42:00	-18.5	-20.7	2.2
2026-02-02 15:43:00	-18.4	-20.6	2.2
2026-02-02 15:44:00	-18.8	-20.5	1.7
2026-02-02 15:45:00	-19.3	-21.5	2.2
2026-02-02 15:46:00	-19.9	-21.9	2.0
2026-02-02 15:47:00	-20.0	-21.9	1.9
2026-02-02 15:48:00	-20.0	-21.8	1.8
2026-02-02 15:49:00	-19.9	-21.7	1.8
2026-02-02 15:50:00	-19.8	-21.6	1.8
2026-02-02 15:51:00	-19.6	-21.3	1.7
2026-02-02 15:52:00	-19.5	-21.2	1.7
2026-02-02 15:53:00	-19.3	-21.2	1.9
2026-02-02 15:54:00	-19.2	-21.1	1.9
2026-02-02 15:55:00	-19.0	-21.0	2.0
2026-02-02 15:56:00	-18.8	-21.0	2.2
2026-02-02 15:57:00	-18.7	-20.9	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 15:58:00	-18.5	-20.9	2.4
2026-02-02 15:59:00	-18.6	-20.6	2.0
2026-02-02 16:00:00	-19.0	-20.9	1.9
2026-02-02 16:01:00	-19.5	-21.8	2.3
2026-02-02 16:02:00	-19.8	-21.9	2.1
2026-02-02 16:03:00	-19.7	-21.9	2.2
2026-02-02 16:04:00	-19.6	-21.8	2.2
2026-02-02 16:05:00	-19.6	-21.7	2.1
2026-02-02 16:06:00	-19.4	-21.5	2.1
2026-02-02 16:07:00	-19.3	-21.2	1.9
2026-02-02 16:08:00	-19.2	-21.2	2.0
2026-02-02 16:09:00	-19.1	-21.1	2.0
2026-02-02 16:10:00	-18.9	-21.1	2.2
2026-02-02 16:11:00	-18.8	-21.0	2.2
2026-02-02 16:12:00	-18.7	-20.9	2.2
2026-02-02 16:13:00	-18.5	-20.8	2.3
2026-02-02 16:14:00	-18.5	-20.6	2.1
2026-02-02 16:15:00	-18.8	-20.6	1.8
2026-02-02 16:16:00	-19.4	-21.5	2.1
2026-02-02 16:17:00	-19.9	-21.9	2.0
2026-02-02 16:18:00	-20.0	-21.9	1.9
2026-02-02 16:19:00	-20.0	-21.8	1.8
2026-02-02 16:20:00	-19.8	-21.7	1.9
2026-02-02 16:21:00	-19.7	-21.5	1.8
2026-02-02 16:22:00	-19.6	-21.1	1.5
2026-02-02 16:23:00	-19.5	-21.1	1.6
2026-02-02 16:24:00	-19.3	-21.1	1.8
2026-02-02 16:25:00	-19.2	-21.0	1.8
2026-02-02 16:26:00	-19.0	-21.0	2.0
2026-02-02 16:27:00	-18.8	-20.9	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 16:28:00	-18.7	-20.9	2.2
2026-02-02 16:29:00	-18.5	-20.7	2.2
2026-02-02 16:30:00	-18.5	-20.4	1.9
2026-02-02 16:31:00	-18.9	-20.5	1.6
2026-02-02 16:32:00	-19.4	-21.4	2.0
2026-02-02 16:33:00	-19.7	-21.9	2.2
2026-02-02 16:34:00	-19.8	-21.9	2.1
2026-02-02 16:35:00	-19.7	-21.8	2.1
2026-02-02 16:36:00	-19.6	-21.7	2.1
2026-02-02 16:37:00	-19.5	-21.6	2.1
2026-02-02 16:38:00	-19.3	-21.3	2.0
2026-02-02 16:39:00	-19.2	-21.2	2.0
2026-02-02 16:40:00	-19.0	-21.1	2.1
2026-02-02 16:41:00	-18.9	-21.0	2.1
2026-02-02 16:42:00	-18.7	-20.9	2.2
2026-02-02 16:43:00	-18.6	-20.8	2.2
2026-02-02 16:44:00	-18.4	-20.7	2.3
2026-02-02 16:45:00	-18.4	-20.6	2.2
2026-02-02 16:46:00	-18.6	-20.5	1.9
2026-02-02 16:47:00	-19.1	-21.3	2.2
2026-02-02 16:48:00	-19.7	-21.9	2.2
2026-02-02 16:49:00	-19.9	-21.9	2.0
2026-02-02 16:50:00	-19.9	-21.9	2.0
2026-02-02 16:51:00	-19.9	-21.8	1.9
2026-02-02 16:52:00	-19.8	-21.7	1.9
2026-02-02 16:53:00	-19.6	-21.3	1.7
2026-02-02 16:54:00	-19.5	-21.3	1.8
2026-02-02 16:55:00	-19.4	-21.2	1.8
2026-02-02 16:56:00	-19.3	-21.1	1.8
2026-02-02 16:57:00	-19.1	-21.0	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 16:58:00	-19.0	-21.0	2.0
2026-02-02 16:59:00	-18.8	-21.0	2.2
2026-02-02 17:00:00	-18.7	-20.9	2.2
2026-02-02 17:01:00	-18.5	-20.6	2.1
2026-02-02 17:02:00	-18.8	-20.5	1.7
2026-02-02 17:03:00	-19.1	-21.0	1.9
2026-02-02 17:04:00	-19.6	-21.8	2.2
2026-02-02 17:05:00	-19.8	-21.9	2.1
2026-02-02 17:06:00	-19.9	-21.8	1.9
2026-02-02 17:07:00	-19.8	-21.7	1.9
2026-02-02 17:08:00	-19.7	-21.6	1.9
2026-02-02 17:09:00	-19.5	-21.5	2.0
2026-02-02 17:10:00	-19.4	-21.3	1.9
2026-02-02 17:11:00	-19.2	-21.2	2.0
2026-02-02 17:12:00	-19.1	-21.1	2.0
2026-02-02 17:13:00	-18.9	-21.0	2.1
2026-02-02 17:14:00	-18.8	-20.9	2.1
2026-02-02 17:15:00	-18.6	-20.9	2.3
2026-02-02 17:16:00	-18.4	-20.7	2.3
2026-02-02 17:17:00	-18.5	-20.6	2.1
2026-02-02 17:18:00	-18.8	-20.7	1.9
2026-02-02 17:19:00	-19.4	-21.7	2.3
2026-02-02 17:20:00	-19.9	-21.9	2.0
2026-02-02 17:21:00	-20.0	-21.9	1.9
2026-02-02 17:22:00	-20.0	-21.8	1.8
2026-02-02 17:23:00	-19.9	-21.7	1.8
2026-02-02 17:24:00	-19.7	-21.5	1.8
2026-02-02 17:25:00	-19.6	-21.3	1.7
2026-02-02 17:26:00	-19.5	-21.2	1.7
2026-02-02 17:27:00	-19.3	-21.0	1.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 17:28:00	-19.1	-20.7	1.6
2026-02-02 17:29:00	-18.9	-20.6	1.7
2026-02-02 17:30:00	-18.7	-20.5	1.8
2026-02-02 17:31:00	-18.5	-20.4	1.9
2026-02-02 17:32:00	-18.1	-20.0	1.9
2026-02-02 17:33:00	-18.2	-19.9	1.7
2026-02-02 17:34:00	-18.2	-20.5	2.3
2026-02-02 17:35:00	-18.1	-20.9	2.8
2026-02-02 17:36:00	-18.1	-21.2	3.1
2026-02-02 17:37:00	-18.1	-21.5	3.4
2026-02-02 17:38:00	-18.1	-21.8	3.7
2026-02-02 17:39:00	-18.2	-21.8	3.6
2026-02-02 17:40:00	-18.3	-21.9	3.6
2026-02-02 17:41:00	-18.1	-21.8	3.7
2026-02-02 17:42:00	-18.1	-21.2	3.1
2026-02-02 17:43:00	-18.1	-20.7	2.6
2026-02-02 17:44:00	-18.1	-20.5	2.4
2026-02-02 17:45:00	-18.1	-19.9	1.8
2026-02-02 17:46:00	-18.1	-19.4	1.3
2026-02-02 17:47:00	-18.2	-19.4	1.2
2026-02-02 17:48:00	-18.3	-19.5	1.2
2026-02-02 17:49:00	-18.1	-19.8	1.7
2026-02-02 17:50:00	-18.1	-20.0	1.9
2026-02-02 17:51:00	-18.1	-20.2	2.1
2026-02-02 17:52:00	-18.1	-20.4	2.3
2026-02-02 17:53:00	-18.2	-20.7	2.5
2026-02-02 17:54:00	-18.3	-21.0	2.7
2026-02-02 17:55:00	-18.5	-21.2	2.7
2026-02-02 17:56:00	-18.6	-21.5	2.9
2026-02-02 17:57:00	-18.7	-21.7	3.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 17:58:00	-18.8	-21.8	3.0
2026-02-02 17:59:00	-18.9	-21.9	3.0
2026-02-02 18:00:00	-19.3	-21.9	2.6
2026-02-02 18:01:00	-19.3	-21.8	2.5
2026-02-02 18:02:00	-19.2	-21.7	2.5
2026-02-02 18:03:00	-19.1	-21.3	2.2
2026-02-02 18:04:00	-18.9	-21.0	2.1
2026-02-02 18:05:00	-18.8	-20.9	2.1
2026-02-02 18:06:00	-18.6	-20.8	2.2
2026-02-02 18:07:00	-18.4	-20.6	2.2
2026-02-02 18:08:00	-18.2	-20.5	2.3
2026-02-02 18:09:00	-18.1	-20.4	2.3
2026-02-02 18:10:00	-18.2	-19.6	1.4
2026-02-02 18:11:00	-18.5	-19.9	1.4
2026-02-02 18:12:00	-18.9	-20.7	1.8
2026-02-02 18:13:00	-19.2	-21.6	2.4
2026-02-02 18:14:00	-19.5	-21.9	2.4
2026-02-02 18:15:00	-19.6	-21.9	2.3
2026-02-02 18:16:00	-19.6	-21.8	2.2
2026-02-02 18:17:00	-19.5	-21.7	2.2
2026-02-02 18:18:00	-19.3	-21.4	2.1
2026-02-02 18:19:00	-19.1	-21.1	2.0
2026-02-02 18:20:00	-19.0	-20.9	1.9
2026-02-02 18:21:00	-18.8	-20.7	1.9
2026-02-02 18:22:00	-18.7	-20.5	1.8
2026-02-02 18:23:00	-18.5	-20.4	1.9
2026-02-02 18:24:00	-18.4	-20.3	1.9
2026-02-02 18:25:00	-18.4	-20.1	1.7
2026-02-02 18:26:00	-18.7	-20.6	1.9
2026-02-02 18:27:00	-19.1	-21.6	2.5

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 18:28:00	-19.5	-21.9	2.4
2026-02-02 18:29:00	-19.7	-21.9	2.2
2026-02-02 18:30:00	-19.6	-21.8	2.2
2026-02-02 18:31:00	-19.5	-21.7	2.2
2026-02-02 18:32:00	-19.4	-21.6	2.2
2026-02-02 18:33:00	-19.2	-21.3	2.1
2026-02-02 18:34:00	-19.1	-21.1	2.0
2026-02-02 18:35:00	-18.9	-21.0	2.1
2026-02-02 18:36:00	-18.8	-20.9	2.1
2026-02-02 18:37:00	-18.6	-20.7	2.1
2026-02-02 18:38:00	-18.5	-20.6	2.1
2026-02-02 18:39:00	-18.3	-20.5	2.2
2026-02-02 18:40:00	-18.4	-20.3	1.9
2026-02-02 18:41:00	-18.8	-20.7	1.9
2026-02-02 18:42:00	-19.4	-21.8	2.4
2026-02-02 18:43:00	-19.9	-21.9	2.0
2026-02-02 18:44:00	-20.0	-21.9	1.9
2026-02-02 18:45:00	-19.9	-21.8	1.9
2026-02-02 18:46:00	-19.8	-21.7	1.9
2026-02-02 18:47:00	-19.7	-21.5	1.8
2026-02-02 18:48:00	-19.6	-21.2	1.6
2026-02-02 18:49:00	-19.4	-21.0	1.6
2026-02-02 18:50:00	-19.2	-21.0	1.8
2026-02-02 18:51:00	-19.1	-20.9	1.8
2026-02-02 18:52:00	-18.9	-20.8	1.9
2026-02-02 18:53:00	-18.7	-20.8	2.1
2026-02-02 18:54:00	-18.6	-20.7	2.1
2026-02-02 18:55:00	-18.5	-20.5	2.0
2026-02-02 18:56:00	-18.7	-20.5	1.8
2026-02-02 18:57:00	-19.2	-21.3	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 18:58:00	-19.6	-21.8	2.2
2026-02-02 18:59:00	-19.8	-21.9	2.1
2026-02-02 19:00:00	-19.7	-21.8	2.1
2026-02-02 19:01:00	-19.6	-21.7	2.1
2026-02-02 19:02:00	-19.5	-21.6	2.1
2026-02-02 19:03:00	-19.3	-21.4	2.1
2026-02-02 19:04:00	-19.2	-21.2	2.0
2026-02-02 19:05:00	-19.0	-21.1	2.1
2026-02-02 19:06:00	-18.9	-21.0	2.1
2026-02-02 19:07:00	-18.7	-21.0	2.3
2026-02-02 19:08:00	-18.6	-20.9	2.3
2026-02-02 19:09:00	-18.4	-20.8	2.4
2026-02-02 19:10:00	-18.3	-20.7	2.4
2026-02-02 19:11:00	-18.5	-20.5	2.0
2026-02-02 19:12:00	-19.0	-21.0	2.0
2026-02-02 19:13:00	-19.6	-21.9	2.3
2026-02-02 19:14:00	-19.9	-21.9	2.0
2026-02-02 19:15:00	-19.9	-21.9	2.0
2026-02-02 19:16:00	-19.8	-21.8	2.0
2026-02-02 19:17:00	-19.7	-21.6	1.9
2026-02-02 19:18:00	-19.6	-21.3	1.7
2026-02-02 19:19:00	-19.5	-21.1	1.6
2026-02-02 19:20:00	-19.3	-21.1	1.8
2026-02-02 19:21:00	-19.2	-21.0	1.8
2026-02-02 19:22:00	-19.0	-21.0	2.0
2026-02-02 19:23:00	-18.9	-21.0	2.1
2026-02-02 19:24:00	-18.8	-20.9	2.1
2026-02-02 19:25:00	-18.6	-20.8	2.2
2026-02-02 19:26:00	-18.5	-20.6	2.1
2026-02-02 19:27:00	-18.6	-20.4	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 19:28:00	-18.9	-20.9	2.0
2026-02-02 19:29:00	-19.3	-21.9	2.6
2026-02-02 19:30:00	-19.6	-21.9	2.3
2026-02-02 19:31:00	-19.6	-21.9	2.3
2026-02-02 19:32:00	-19.5	-21.8	2.3
2026-02-02 19:33:00	-19.4	-21.7	2.3
2026-02-02 19:34:00	-19.3	-21.4	2.1
2026-02-02 19:35:00	-19.1	-21.2	2.1
2026-02-02 19:36:00	-19.0	-21.0	2.0
2026-02-02 19:37:00	-18.8	-21.0	2.2
2026-02-02 19:38:00	-18.6	-21.0	2.4
2026-02-02 19:39:00	-18.5	-20.9	2.4
2026-02-02 19:40:00	-18.4	-20.7	2.3
2026-02-02 19:41:00	-18.3	-20.7	2.4
2026-02-02 19:42:00	-18.5	-20.5	2.0
2026-02-02 19:43:00	-19.0	-21.1	2.1
2026-02-02 19:44:00	-19.6	-21.9	2.3
2026-02-02 19:45:00	-19.9	-21.9	2.0
2026-02-02 19:46:00	-19.9	-21.9	2.0
2026-02-02 19:47:00	-19.9	-21.8	1.9
2026-02-02 19:48:00	-19.8	-21.7	1.9
2026-02-02 19:49:00	-19.6	-21.3	1.7
2026-02-02 19:50:00	-19.5	-21.2	1.7
2026-02-02 19:51:00	-19.3	-21.1	1.8
2026-02-02 19:52:00	-19.2	-21.1	1.9
2026-02-02 19:53:00	-19.0	-21.0	2.0
2026-02-02 19:54:00	-18.9	-21.0	2.1
2026-02-02 19:55:00	-18.8	-20.9	2.1
2026-02-02 19:56:00	-18.6	-20.9	2.3
2026-02-02 19:57:00	-18.5	-20.7	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 19:58:00	-18.8	-20.8	2.0
2026-02-02 19:59:00	-19.4	-21.4	2.0
2026-02-02 20:00:00	-19.8	-21.9	2.1
2026-02-02 20:01:00	-19.9	-21.9	2.0
2026-02-02 20:02:00	-19.8	-21.8	2.0
2026-02-02 20:03:00	-19.7	-21.7	2.0
2026-02-02 20:04:00	-19.6	-21.6	2.0
2026-02-02 20:05:00	-19.5	-21.3	1.8
2026-02-02 20:06:00	-19.3	-21.2	1.9
2026-02-02 20:07:00	-19.1	-21.1	2.0
2026-02-02 20:08:00	-19.0	-21.0	2.0
2026-02-02 20:09:00	-18.9	-21.0	2.1
2026-02-02 20:10:00	-18.7	-20.9	2.2
2026-02-02 20:11:00	-18.6	-20.8	2.2
2026-02-02 20:12:00	-18.4	-20.7	2.3
2026-02-02 20:13:00	-18.6	-20.4	1.8
2026-02-02 20:14:00	-19.1	-21.1	2.0
2026-02-02 20:15:00	-19.5	-21.8	2.3
2026-02-02 20:16:00	-19.7	-21.9	2.2
2026-02-02 20:17:00	-19.7	-21.8	2.1
2026-02-02 20:18:00	-19.6	-21.7	2.1
2026-02-02 20:19:00	-19.4	-21.6	2.2
2026-02-02 20:20:00	-19.3	-21.5	2.2
2026-02-02 20:21:00	-19.2	-21.3	2.1
2026-02-02 20:22:00	-19.0	-21.2	2.2
2026-02-02 20:23:00	-18.8	-21.1	2.3
2026-02-02 20:24:00	-18.7	-21.0	2.3
2026-02-02 20:25:00	-18.5	-21.0	2.5
2026-02-02 20:26:00	-18.4	-20.9	2.5
2026-02-02 20:27:00	-18.3	-20.8	2.5

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 20:28:00	-18.4	-20.6	2.2
2026-02-02 20:29:00	-18.9	-21.1	2.2
2026-02-02 20:30:00	-19.5	-21.9	2.4
2026-02-02 20:31:00	-19.8	-21.9	2.1
2026-02-02 20:32:00	-19.9	-21.9	2.0
2026-02-02 20:33:00	-19.8	-21.8	2.0
2026-02-02 20:34:00	-19.7	-21.7	2.0
2026-02-02 20:35:00	-19.6	-21.4	1.8
2026-02-02 20:36:00	-19.5	-21.2	1.7
2026-02-02 20:37:00	-19.3	-21.2	1.9
2026-02-02 20:38:00	-19.2	-21.1	1.9
2026-02-02 20:39:00	-19.0	-21.0	2.0
2026-02-02 20:40:00	-18.8	-21.0	2.2
2026-02-02 20:41:00	-18.7	-20.9	2.2
2026-02-02 20:42:00	-18.6	-20.9	2.3
2026-02-02 20:43:00	-18.4	-20.6	2.2
2026-02-02 20:44:00	-18.7	-20.5	1.8
2026-02-02 20:45:00	-19.2	-21.0	1.8
2026-02-02 20:46:00	-19.6	-21.8	2.2
2026-02-02 20:47:00	-19.7	-21.9	2.2
2026-02-02 20:48:00	-19.7	-21.8	2.1
2026-02-02 20:49:00	-19.6	-21.7	2.1
2026-02-02 20:50:00	-19.5	-21.6	2.1
2026-02-02 20:51:00	-19.4	-21.4	2.0
2026-02-02 20:52:00	-19.2	-21.3	2.1
2026-02-02 20:53:00	-19.1	-21.2	2.1
2026-02-02 20:54:00	-18.9	-21.1	2.2
2026-02-02 20:55:00	-18.8	-21.0	2.2
2026-02-02 20:56:00	-18.6	-21.0	2.4
2026-02-02 20:57:00	-18.5	-20.9	2.4

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 20:58:00	-18.4	-20.7	2.3
2026-02-02 20:59:00	-18.5	-20.6	2.1
2026-02-02 21:00:00	-18.9	-21.0	2.1
2026-02-02 21:01:00	-19.5	-21.8	2.3
2026-02-02 21:02:00	-19.9	-21.9	2.0
2026-02-02 21:03:00	-19.9	-21.9	2.0
2026-02-02 21:04:00	-19.8	-21.8	2.0
2026-02-02 21:05:00	-19.8	-21.7	1.9
2026-02-02 21:06:00	-19.7	-21.4	1.7
2026-02-02 21:07:00	-19.5	-21.1	1.6
2026-02-02 21:08:00	-19.4	-21.1	1.7
2026-02-02 21:09:00	-19.2	-21.0	1.8
2026-02-02 21:10:00	-19.0	-21.0	2.0
2026-02-02 21:11:00	-18.9	-21.0	2.1
2026-02-02 21:12:00	-18.7	-20.9	2.2
2026-02-02 21:13:00	-18.6	-20.8	2.2
2026-02-02 21:14:00	-18.6	-20.5	1.9
2026-02-02 21:15:00	-18.8	-20.5	1.7
2026-02-02 21:16:00	-19.3	-21.4	2.1
2026-02-02 21:17:00	-19.8	-21.9	2.1
2026-02-02 21:18:00	-20.0	-21.9	1.9
2026-02-02 21:19:00	-20.0	-21.9	1.9
2026-02-02 21:20:00	-19.9	-21.8	1.9
2026-02-02 21:21:00	-19.8	-21.6	1.8
2026-02-02 21:22:00	-19.6	-21.2	1.6
2026-02-02 21:23:00	-19.5	-21.2	1.7
2026-02-02 21:24:00	-19.3	-21.2	1.9
2026-02-02 21:25:00	-19.1	-21.1	2.0
2026-02-02 21:26:00	-18.9	-21.0	2.1
2026-02-02 21:27:00	-18.7	-21.0	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 21:28:00	-18.6	-21.0	2.4
2026-02-02 21:29:00	-18.4	-20.8	2.4
2026-02-02 21:30:00	-18.6	-20.5	1.9
2026-02-02 21:31:00	-19.0	-20.7	1.7
2026-02-02 21:32:00	-19.4	-21.8	2.4
2026-02-02 21:33:00	-19.6	-21.9	2.3
2026-02-02 21:34:00	-19.6	-21.9	2.3
2026-02-02 21:35:00	-19.5	-21.8	2.3
2026-02-02 21:36:00	-19.4	-21.7	2.3
2026-02-02 21:37:00	-19.3	-21.4	2.1
2026-02-02 21:38:00	-19.2	-21.2	2.0
2026-02-02 21:39:00	-19.1	-21.1	2.0
2026-02-02 21:40:00	-18.9	-21.0	2.1
2026-02-02 21:41:00	-18.8	-21.0	2.2
2026-02-02 21:42:00	-18.7	-20.9	2.2
2026-02-02 21:43:00	-18.5	-20.8	2.3
2026-02-02 21:44:00	-18.4	-20.6	2.2
2026-02-02 21:45:00	-18.4	-20.5	2.1
2026-02-02 21:46:00	-18.8	-20.6	1.8
2026-02-02 21:47:00	-19.4	-21.7	2.3
2026-02-02 21:48:00	-19.9	-21.9	2.0
2026-02-02 21:49:00	-20.0	-21.9	1.9
2026-02-02 21:50:00	-19.9	-21.8	1.9
2026-02-02 21:51:00	-19.8	-21.7	1.9
2026-02-02 21:52:00	-19.7	-21.5	1.8
2026-02-02 21:53:00	-19.6	-21.3	1.7
2026-02-02 21:54:00	-19.4	-21.2	1.8
2026-02-02 21:55:00	-19.3	-21.2	1.9
2026-02-02 21:56:00	-19.1	-21.1	2.0
2026-02-02 21:57:00	-18.9	-21.0	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 21:58:00	-18.8	-21.0	2.2
2026-02-02 21:59:00	-18.6	-21.0	2.4
2026-02-02 22:00:00	-18.5	-20.9	2.4
2026-02-02 22:01:00	-18.4	-20.5	2.1
2026-02-02 22:02:00	-18.8	-20.6	1.8
2026-02-02 22:03:00	-19.3	-21.3	2.0
2026-02-02 22:04:00	-19.7	-21.8	2.1
2026-02-02 22:05:00	-19.9	-21.9	2.0
2026-02-02 22:06:00	-19.8	-21.8	2.0
2026-02-02 22:07:00	-19.7	-21.7	2.0
2026-02-02 22:08:00	-19.5	-21.6	2.1
2026-02-02 22:09:00	-19.4	-21.3	1.9
2026-02-02 22:10:00	-19.2	-21.1	1.9
2026-02-02 22:11:00	-19.1	-21.2	2.1
2026-02-02 22:12:00	-18.9	-21.1	2.2
2026-02-02 22:13:00	-18.8	-21.0	2.2
2026-02-02 22:14:00	-18.6	-20.9	2.3
2026-02-02 22:15:00	-18.4	-20.7	2.3
2026-02-02 22:16:00	-18.3	-20.7	2.4
2026-02-02 22:17:00	-18.4	-20.3	1.9
2026-02-02 22:18:00	-18.8	-21.1	2.3
2026-02-02 22:19:00	-19.4	-21.8	2.4
2026-02-02 22:20:00	-19.7	-21.9	2.2
2026-02-02 22:21:00	-19.6	-21.8	2.2
2026-02-02 22:22:00	-19.6	-21.7	2.1
2026-02-02 22:23:00	-19.5	-21.6	2.1
2026-02-02 22:24:00	-19.3	-21.5	2.2
2026-02-02 22:25:00	-19.2	-21.4	2.2
2026-02-02 22:26:00	-19.0	-21.3	2.3
2026-02-02 22:27:00	-18.9	-21.2	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 22:28:00	-18.8	-21.2	2.4
2026-02-02 22:29:00	-18.6	-21.1	2.5
2026-02-02 22:30:00	-18.5	-21.0	2.5
2026-02-02 22:31:00	-18.3	-20.9	2.6
2026-02-02 22:32:00	-18.3	-20.7	2.4
2026-02-02 22:33:00	-18.6	-20.6	2.0
2026-02-02 22:34:00	-19.2	-21.5	2.3
2026-02-02 22:35:00	-19.8	-21.9	2.1
2026-02-02 22:36:00	-19.9	-21.9	2.0
2026-02-02 22:37:00	-19.9	-21.8	1.9
2026-02-02 22:38:00	-19.8	-21.7	1.9
2026-02-02 22:39:00	-19.7	-21.6	1.9
2026-02-02 22:40:00	-19.6	-21.2	1.6
2026-02-02 22:41:00	-19.5	-21.2	1.7
2026-02-02 22:42:00	-19.3	-21.1	1.8
2026-02-02 22:43:00	-19.1	-21.1	2.0
2026-02-02 22:44:00	-18.9	-21.0	2.1
2026-02-02 22:45:00	-18.8	-21.0	2.2
2026-02-02 22:46:00	-18.6	-20.9	2.3
2026-02-02 22:47:00	-18.5	-20.8	2.3
2026-02-02 22:48:00	-18.4	-20.5	2.1
2026-02-02 22:49:00	-18.6	-20.5	1.9
2026-02-02 22:50:00	-19.0	-21.3	2.3
2026-02-02 22:51:00	-19.5	-21.8	2.3
2026-02-02 22:52:00	-19.7	-21.9	2.2
2026-02-02 22:53:00	-19.7	-21.8	2.1
2026-02-02 22:54:00	-19.6	-21.7	2.1
2026-02-02 22:55:00	-19.5	-21.6	2.1
2026-02-02 22:56:00	-19.3	-21.4	2.1
2026-02-02 22:57:00	-19.2	-21.2	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 22:58:00	-19.0	-21.2	2.2
2026-02-02 22:59:00	-18.9	-21.1	2.2
2026-02-02 23:00:00	-18.7	-21.0	2.3
2026-02-02 23:01:00	-18.6	-21.0	2.4
2026-02-02 23:02:00	-18.4	-20.9	2.5
2026-02-02 23:03:00	-18.3	-20.7	2.4
2026-02-02 23:04:00	-18.4	-20.5	2.1
2026-02-02 23:05:00	-18.9	-21.0	2.1
2026-02-02 23:06:00	-19.6	-21.9	2.3
2026-02-02 23:07:00	-19.9	-21.9	2.0
2026-02-02 23:08:00	-19.9	-21.9	2.0
2026-02-02 23:09:00	-19.9	-21.8	1.9
2026-02-02 23:10:00	-19.8	-21.7	1.9
2026-02-02 23:11:00	-19.6	-21.4	1.8
2026-02-02 23:12:00	-19.5	-21.4	1.9
2026-02-02 23:13:00	-19.4	-21.3	1.9
2026-02-02 23:14:00	-19.3	-21.1	1.8
2026-02-02 23:15:00	-19.1	-21.0	1.9
2026-02-02 23:16:00	-18.9	-21.0	2.1
2026-02-02 23:17:00	-18.8	-20.9	2.1
2026-02-02 23:18:00	-18.6	-20.8	2.2
2026-02-02 23:19:00	-18.5	-20.8	2.3
2026-02-02 23:20:00	-18.6	-20.4	1.8
2026-02-02 23:21:00	-19.1	-21.0	1.9
2026-02-02 23:22:00	-19.6	-21.8	2.2
2026-02-02 23:23:00	-20.0	-21.9	1.9
2026-02-02 23:24:00	-20.0	-21.9	1.9
2026-02-02 23:25:00	-19.9	-21.8	1.9
2026-02-02 23:26:00	-19.8	-21.7	1.9
2026-02-02 23:27:00	-19.6	-21.4	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 23:28:00	-19.4	-21.0	1.6
2026-02-02 23:29:00	-19.1	-20.8	1.7
2026-02-02 23:30:00	-18.8	-20.7	1.9
2026-02-02 23:31:00	-18.5	-20.6	2.1
2026-02-02 23:32:00	-18.3	-20.5	2.2
2026-02-02 23:33:00	-18.1	-20.3	2.2
2026-02-02 23:34:00	-18.1	-19.6	1.5
2026-02-02 23:35:00	-18.1	-19.5	1.4
2026-02-02 23:36:00	-18.1	-20.1	2.0
2026-02-02 23:37:00	-18.1	-20.9	2.8
2026-02-02 23:38:00	-18.2	-21.4	3.2
2026-02-02 23:39:00	-18.3	-21.9	3.6
2026-02-02 23:40:00	-18.2	-21.0	2.8
2026-02-02 23:41:00	-18.3	-20.4	2.1
2026-02-02 23:42:00	-18.4	-20.3	1.9
2026-02-02 23:43:00	-18.5	-20.7	2.2
2026-02-02 23:44:00	-18.9	-21.2	2.3
2026-02-02 23:45:00	-19.2	-21.5	2.3
2026-02-02 23:46:00	-19.2	-21.7	2.5
2026-02-02 23:47:00	-19.1	-21.7	2.6
2026-02-02 23:48:00	-18.9	-21.7	2.8
2026-02-02 23:49:00	-18.7	-21.7	3.0
2026-02-02 23:50:00	-18.6	-21.7	3.1
2026-02-02 23:51:00	-18.3	-21.8	3.5
2026-02-02 23:52:00	-18.2	-21.9	3.7
2026-02-02 23:53:00	-18.6	-21.9	3.3
2026-02-02 23:54:00	-18.9	-21.9	3.0
2026-02-02 23:55:00	-18.7	-21.3	2.6
2026-02-02 23:56:00	-19.5	-20.9	1.4
2026-02-02 23:57:00	-20.2	-21.2	1.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-02 23:58:00	-20.4	-21.8	1.4
2026-02-02 23:59:00	-20.5	-21.9	1.4
2026-02-03 00:00:00	-20.4	-21.8	1.4
2026-02-03 00:01:00	-20.2	-21.7	1.5
2026-02-03 00:02:00	-20.1	-21.5	1.4
2026-02-03 00:03:00	-19.8	-21.2	1.4
2026-02-03 00:04:00	-19.7	-21.0	1.3
2026-02-03 00:05:00	-19.5	-20.9	1.4
2026-02-03 00:06:00	-19.3	-20.8	1.5
2026-02-03 00:07:00	-19.1	-20.7	1.6
2026-02-03 00:08:00	-18.9	-20.5	1.6
2026-02-03 00:09:00	-18.8	-20.4	1.6
2026-02-03 00:10:00	-18.7	-20.2	1.5
2026-02-03 00:11:00	-19.1	-20.8	1.7
2026-02-03 00:12:00	-19.5	-21.5	2.0
2026-02-03 00:13:00	-19.7	-21.9	2.2
2026-02-03 00:14:00	-19.9	-21.9	2.0
2026-02-03 00:15:00	-19.8	-21.8	2.0
2026-02-03 00:16:00	-19.7	-21.7	2.0
2026-02-03 00:17:00	-19.5	-21.4	1.9
2026-02-03 00:18:00	-19.3	-21.2	1.9
2026-02-03 00:19:00	-19.2	-21.0	1.8
2026-02-03 00:20:00	-19.0	-20.9	1.9
2026-02-03 00:21:00	-18.9	-20.9	2.0
2026-02-03 00:22:00	-18.7	-20.7	2.0
2026-02-03 00:23:00	-18.6	-20.6	2.0
2026-02-03 00:24:00	-18.5	-20.5	2.0
2026-02-03 00:25:00	-18.4	-20.3	1.9
2026-02-03 00:26:00	-18.7	-20.7	2.0
2026-02-03 00:27:00	-19.2	-21.4	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 00:28:00	-19.5	-21.9	2.4
2026-02-03 00:29:00	-19.7	-21.9	2.2
2026-02-03 00:30:00	-19.7	-21.8	2.1
2026-02-03 00:31:00	-19.5	-21.7	2.2
2026-02-03 00:32:00	-19.4	-21.5	2.1
2026-02-03 00:33:00	-19.3	-21.3	2.0
2026-02-03 00:34:00	-19.1	-21.3	2.2
2026-02-03 00:35:00	-18.9	-21.2	2.3
2026-02-03 00:36:00	-18.8	-21.1	2.3
2026-02-03 00:37:00	-18.6	-21.0	2.4
2026-02-03 00:38:00	-18.5	-20.9	2.4
2026-02-03 00:39:00	-18.4	-20.8	2.4
2026-02-03 00:40:00	-18.3	-20.6	2.3
2026-02-03 00:41:00	-18.6	-20.5	1.9
2026-02-03 00:42:00	-19.0	-21.3	2.3
2026-02-03 00:43:00	-19.4	-21.8	2.4
2026-02-03 00:44:00	-19.5	-21.9	2.4
2026-02-03 00:45:00	-19.6	-21.8	2.2
2026-02-03 00:46:00	-19.5	-21.7	2.2
2026-02-03 00:47:00	-19.4	-21.6	2.2
2026-02-03 00:48:00	-19.2	-21.3	2.1
2026-02-03 00:49:00	-19.0	-21.3	2.3
2026-02-03 00:50:00	-18.9	-21.3	2.4
2026-02-03 00:51:00	-18.7	-21.2	2.5
2026-02-03 00:52:00	-18.6	-21.1	2.5
2026-02-03 00:53:00	-18.4	-21.0	2.6
2026-02-03 00:54:00	-18.3	-20.9	2.6
2026-02-03 00:55:00	-18.2	-20.8	2.6
2026-02-03 00:56:00	-18.4	-20.6	2.2
2026-02-03 00:57:00	-18.9	-21.1	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 00:58:00	-19.6	-21.8	2.2
2026-02-03 00:59:00	-19.9	-21.9	2.0
2026-02-03 01:00:00	-20.0	-21.9	1.9
2026-02-03 01:01:00	-19.9	-21.8	1.9
2026-02-03 01:02:00	-19.8	-21.7	1.9
2026-02-03 01:03:00	-19.6	-21.4	1.8
2026-02-03 01:04:00	-19.5	-21.1	1.6
2026-02-03 01:05:00	-19.3	-21.1	1.8
2026-02-03 01:06:00	-19.1	-21.0	1.9
2026-02-03 01:07:00	-19.0	-21.0	2.0
2026-02-03 01:08:00	-18.8	-20.9	2.1
2026-02-03 01:09:00	-18.7	-20.8	2.1
2026-02-03 01:10:00	-18.5	-20.8	2.3
2026-02-03 01:11:00	-18.4	-20.6	2.2
2026-02-03 01:12:00	-18.4	-20.3	1.9
2026-02-03 01:13:00	-18.9	-20.6	1.7
2026-02-03 01:14:00	-19.3	-21.8	2.5
2026-02-03 01:15:00	-19.5	-21.9	2.4
2026-02-03 01:16:00	-19.6	-21.9	2.3
2026-02-03 01:17:00	-19.6	-21.8	2.2
2026-02-03 01:18:00	-19.5	-21.6	2.1
2026-02-03 01:19:00	-19.3	-21.4	2.1
2026-02-03 01:20:00	-19.2	-21.2	2.0
2026-02-03 01:21:00	-19.1	-21.1	2.0
2026-02-03 01:22:00	-18.9	-21.0	2.1
2026-02-03 01:23:00	-18.7	-21.0	2.3
2026-02-03 01:24:00	-18.6	-20.9	2.3
2026-02-03 01:25:00	-18.4	-20.8	2.4
2026-02-03 01:26:00	-18.3	-20.7	2.4
2026-02-03 01:27:00	-18.4	-20.5	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 01:28:00	-18.8	-20.7	1.9
2026-02-03 01:29:00	-19.4	-21.8	2.4
2026-02-03 01:30:00	-19.9	-21.9	2.0
2026-02-03 01:31:00	-19.9	-21.9	2.0
2026-02-03 01:32:00	-19.9	-21.8	1.9
2026-02-03 01:33:00	-19.8	-21.7	1.9
2026-02-03 01:34:00	-19.7	-21.4	1.7
2026-02-03 01:35:00	-19.6	-21.3	1.7
2026-02-03 01:36:00	-19.3	-21.2	1.9
2026-02-03 01:37:00	-19.2	-21.1	1.9
2026-02-03 01:38:00	-19.0	-21.0	2.0
2026-02-03 01:39:00	-18.9	-21.0	2.1
2026-02-03 01:40:00	-18.7	-21.0	2.3
2026-02-03 01:41:00	-18.6	-20.9	2.3
2026-02-03 01:42:00	-18.4	-20.9	2.5
2026-02-03 01:43:00	-18.5	-20.5	2.0
2026-02-03 01:44:00	-18.9	-20.8	1.9
2026-02-03 01:45:00	-19.4	-21.5	2.1
2026-02-03 01:46:00	-19.7	-21.9	2.2
2026-02-03 01:47:00	-19.8	-21.9	2.1
2026-02-03 01:48:00	-19.7	-21.8	2.1
2026-02-03 01:49:00	-19.6	-21.7	2.1
2026-02-03 01:50:00	-19.5	-21.5	2.0
2026-02-03 01:51:00	-19.3	-21.2	1.9
2026-02-03 01:52:00	-19.1	-21.2	2.1
2026-02-03 01:53:00	-19.0	-21.2	2.2
2026-02-03 01:54:00	-18.8	-21.1	2.3
2026-02-03 01:55:00	-18.7	-21.0	2.3
2026-02-03 01:56:00	-18.5	-20.9	2.4
2026-02-03 01:57:00	-18.4	-20.7	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 01:58:00	-18.3	-20.6	2.3
2026-02-03 01:59:00	-18.5	-20.4	1.9
2026-02-03 02:00:00	-19.1	-21.3	2.2
2026-02-03 02:01:00	-19.7	-21.9	2.2
2026-02-03 02:02:00	-19.9	-21.9	2.0
2026-02-03 02:03:00	-19.9	-21.9	2.0
2026-02-03 02:04:00	-19.9	-21.8	1.9
2026-02-03 02:05:00	-19.8	-21.7	1.9
2026-02-03 02:06:00	-19.7	-21.4	1.7
2026-02-03 02:07:00	-19.5	-21.3	1.8
2026-02-03 02:08:00	-19.4	-21.3	1.9
2026-02-03 02:09:00	-19.2	-21.2	2.0
2026-02-03 02:10:00	-19.0	-21.1	2.1
2026-02-03 02:11:00	-18.9	-21.0	2.1
2026-02-03 02:12:00	-18.8	-21.0	2.2
2026-02-03 02:13:00	-18.6	-20.9	2.3
2026-02-03 02:14:00	-18.4	-20.8	2.4
2026-02-03 02:15:00	-18.6	-20.6	2.0
2026-02-03 02:16:00	-19.1	-20.9	1.8
2026-02-03 02:17:00	-19.5	-21.7	2.2
2026-02-03 02:18:00	-19.8	-21.9	2.1
2026-02-03 02:19:00	-19.8	-21.9	2.1
2026-02-03 02:20:00	-19.7	-21.8	2.1
2026-02-03 02:21:00	-19.6	-21.6	2.0
2026-02-03 02:22:00	-19.5	-21.3	1.8
2026-02-03 02:23:00	-19.3	-21.2	1.9
2026-02-03 02:24:00	-19.1	-21.1	2.0
2026-02-03 02:25:00	-19.0	-21.0	2.0
2026-02-03 02:26:00	-18.8	-20.9	2.1
2026-02-03 02:27:00	-18.7	-20.9	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 02:28:00	-18.5	-20.8	2.3
2026-02-03 02:29:00	-18.4	-20.7	2.3
2026-02-03 02:30:00	-18.4	-20.5	2.1
2026-02-03 02:31:00	-18.7	-20.5	1.8
2026-02-03 02:32:00	-19.2	-21.6	2.4
2026-02-03 02:33:00	-19.8	-21.9	2.1
2026-02-03 02:34:00	-19.9	-21.9	2.0
2026-02-03 02:35:00	-19.9	-21.8	1.9
2026-02-03 02:36:00	-19.8	-21.7	1.9
2026-02-03 02:37:00	-19.7	-21.6	1.9
2026-02-03 02:38:00	-19.6	-21.3	1.7
2026-02-03 02:39:00	-19.4	-21.3	1.9
2026-02-03 02:40:00	-19.2	-21.2	2.0
2026-02-03 02:41:00	-19.1	-21.2	2.1
2026-02-03 02:42:00	-18.9	-21.1	2.2
2026-02-03 02:43:00	-18.8	-21.0	2.2
2026-02-03 02:44:00	-18.6	-21.0	2.4
2026-02-03 02:45:00	-18.4	-21.0	2.6
2026-02-03 02:46:00	-18.4	-20.6	2.2
2026-02-03 02:47:00	-18.7	-20.6	1.9
2026-02-03 02:48:00	-19.2	-21.2	2.0
2026-02-03 02:49:00	-19.6	-21.8	2.2
2026-02-03 02:50:00	-19.8	-21.9	2.1
2026-02-03 02:51:00	-19.7	-21.8	2.1
2026-02-03 02:52:00	-19.6	-21.7	2.1
2026-02-03 02:53:00	-19.5	-21.6	2.1
2026-02-03 02:54:00	-19.3	-21.3	2.0
2026-02-03 02:55:00	-19.2	-21.2	2.0
2026-02-03 02:56:00	-19.1	-21.2	2.1
2026-02-03 02:57:00	-18.9	-21.1	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 02:58:00	-18.8	-21.0	2.2
2026-02-03 02:59:00	-18.6	-20.9	2.3
2026-02-03 03:00:00	-18.5	-20.7	2.2
2026-02-03 03:01:00	-18.4	-20.7	2.3
2026-02-03 03:02:00	-18.5	-20.5	2.0
2026-02-03 03:03:00	-18.9	-21.0	2.1
2026-02-03 03:04:00	-19.6	-21.8	2.2
2026-02-03 03:05:00	-19.9	-21.9	2.0
2026-02-03 03:06:00	-20.0	-21.9	1.9
2026-02-03 03:07:00	-19.9	-21.8	1.9
2026-02-03 03:08:00	-19.8	-21.7	1.9
2026-02-03 03:09:00	-19.7	-21.5	1.8
2026-02-03 03:10:00	-19.6	-21.4	1.8
2026-02-03 03:11:00	-19.4	-21.3	1.9
2026-02-03 03:12:00	-19.2	-21.2	2.0
2026-02-03 03:13:00	-19.1	-21.1	2.0
2026-02-03 03:14:00	-18.9	-21.0	2.1
2026-02-03 03:15:00	-18.7	-21.0	2.3
2026-02-03 03:16:00	-18.6	-20.9	2.3
2026-02-03 03:17:00	-18.4	-20.8	2.4
2026-02-03 03:18:00	-18.5	-20.6	2.1
2026-02-03 03:19:00	-18.9	-20.7	1.8
2026-02-03 03:20:00	-19.5	-21.6	2.1
2026-02-03 03:21:00	-19.7	-21.9	2.2
2026-02-03 03:22:00	-19.7	-21.9	2.2
2026-02-03 03:23:00	-19.6	-21.8	2.2
2026-02-03 03:24:00	-19.6	-21.6	2.0
2026-02-03 03:25:00	-19.5	-21.3	1.8
2026-02-03 03:26:00	-19.3	-21.2	1.9
2026-02-03 03:27:00	-19.1	-21.1	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 03:28:00	-19.0	-21.0	2.0
2026-02-03 03:29:00	-18.9	-20.9	2.0
2026-02-03 03:30:00	-18.7	-20.9	2.2
2026-02-03 03:31:00	-18.6	-20.8	2.2
2026-02-03 03:32:00	-18.4	-20.6	2.2
2026-02-03 03:33:00	-18.4	-20.5	2.1
2026-02-03 03:34:00	-18.7	-20.5	1.8
2026-02-03 03:35:00	-19.3	-21.6	2.3
2026-02-03 03:36:00	-19.8	-21.9	2.1
2026-02-03 03:37:00	-20.0	-21.9	1.9
2026-02-03 03:38:00	-19.9	-21.8	1.9
2026-02-03 03:39:00	-19.8	-21.7	1.9
2026-02-03 03:40:00	-19.7	-21.6	1.9
2026-02-03 03:41:00	-19.6	-21.3	1.7
2026-02-03 03:42:00	-19.5	-21.3	1.8
2026-02-03 03:43:00	-19.3	-21.3	2.0
2026-02-03 03:44:00	-19.1	-21.2	2.1
2026-02-03 03:45:00	-18.9	-21.1	2.2
2026-02-03 03:46:00	-18.8	-21.0	2.2
2026-02-03 03:47:00	-18.6	-21.0	2.4
2026-02-03 03:48:00	-18.5	-20.9	2.4
2026-02-03 03:49:00	-18.4	-20.7	2.3
2026-02-03 03:50:00	-18.6	-20.5	1.9
2026-02-03 03:51:00	-19.1	-21.0	1.9
2026-02-03 03:52:00	-19.5	-21.8	2.3
2026-02-03 03:53:00	-19.8	-21.9	2.1
2026-02-03 03:54:00	-19.7	-21.8	2.1
2026-02-03 03:55:00	-19.6	-21.7	2.1
2026-02-03 03:56:00	-19.5	-21.6	2.1
2026-02-03 03:57:00	-19.4	-21.3	1.9

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 03:58:00	-19.2	-21.2	2.0
2026-02-03 03:59:00	-19.1	-21.2	2.1
2026-02-03 04:00:00	-18.9	-21.1	2.2
2026-02-03 04:01:00	-18.8	-21.0	2.2
2026-02-03 04:02:00	-18.6	-21.0	2.4
2026-02-03 04:03:00	-18.5	-20.9	2.4
2026-02-03 04:04:00	-18.3	-20.7	2.4
2026-02-03 04:05:00	-18.3	-20.6	2.3
2026-02-03 04:06:00	-18.7	-20.5	1.8
2026-02-03 04:07:00	-19.2	-21.7	2.5
2026-02-03 04:08:00	-19.8	-21.9	2.1
2026-02-03 04:09:00	-19.9	-21.9	2.0
2026-02-03 04:10:00	-19.8	-21.8	2.0
2026-02-03 04:11:00	-19.8	-21.7	1.9
2026-02-03 04:12:00	-19.7	-21.6	1.9
2026-02-03 04:13:00	-19.6	-21.3	1.7
2026-02-03 04:14:00	-19.4	-21.3	1.9
2026-02-03 04:15:00	-19.3	-21.2	1.9
2026-02-03 04:16:00	-19.1	-21.2	2.1
2026-02-03 04:17:00	-18.9	-21.0	2.1
2026-02-03 04:18:00	-18.8	-21.0	2.2
2026-02-03 04:19:00	-18.6	-21.0	2.4
2026-02-03 04:20:00	-18.5	-20.9	2.4
2026-02-03 04:21:00	-18.4	-20.6	2.2
2026-02-03 04:22:00	-18.9	-20.6	1.7
2026-02-03 04:23:00	-19.3	-21.5	2.2
2026-02-03 04:24:00	-19.7	-21.9	2.2
2026-02-03 04:25:00	-19.8	-21.9	2.1
2026-02-03 04:26:00	-19.7	-21.8	2.1
2026-02-03 04:27:00	-19.6	-21.7	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 04:28:00	-19.4	-21.5	2.1
2026-02-03 04:29:00	-19.3	-21.2	1.9
2026-02-03 04:30:00	-19.1	-21.2	2.1
2026-02-03 04:31:00	-19.0	-21.2	2.2
2026-02-03 04:32:00	-18.8	-21.1	2.3
2026-02-03 04:33:00	-18.7	-21.0	2.3
2026-02-03 04:34:00	-18.5	-20.9	2.4
2026-02-03 04:35:00	-18.4	-20.8	2.4
2026-02-03 04:36:00	-18.3	-20.7	2.4
2026-02-03 04:37:00	-18.4	-20.5	2.1
2026-02-03 04:38:00	-18.9	-21.1	2.2
2026-02-03 04:39:00	-19.6	-21.8	2.2
2026-02-03 04:40:00	-19.9	-21.9	2.0
2026-02-03 04:41:00	-19.9	-21.9	2.0
2026-02-03 04:42:00	-19.8	-21.8	2.0
2026-02-03 04:43:00	-19.7	-21.7	2.0
2026-02-03 04:44:00	-19.6	-21.4	1.8
2026-02-03 04:45:00	-19.5	-21.4	1.9
2026-02-03 04:46:00	-19.3	-21.3	2.0
2026-02-03 04:47:00	-19.2	-21.3	2.1
2026-02-03 04:48:00	-19.0	-21.2	2.2
2026-02-03 04:49:00	-18.8	-21.1	2.3
2026-02-03 04:50:00	-18.7	-21.0	2.3
2026-02-03 04:51:00	-18.5	-21.0	2.5
2026-02-03 04:52:00	-18.4	-20.8	2.4
2026-02-03 04:53:00	-18.6	-20.6	2.0
2026-02-03 04:54:00	-19.1	-21.0	1.9
2026-02-03 04:55:00	-19.5	-21.8	2.3
2026-02-03 04:56:00	-19.8	-21.9	2.1
2026-02-03 04:57:00	-19.8	-21.8	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 04:58:00	-19.7	-21.7	2.0
2026-02-03 04:59:00	-19.6	-21.5	1.9
2026-02-03 05:00:00	-19.5	-21.4	1.9
2026-02-03 05:01:00	-19.4	-21.3	1.9
2026-02-03 05:02:00	-19.2	-21.2	2.0
2026-02-03 05:03:00	-19.1	-21.2	2.1
2026-02-03 05:04:00	-18.9	-21.1	2.2
2026-02-03 05:05:00	-18.8	-21.0	2.2
2026-02-03 05:06:00	-18.6	-20.9	2.3
2026-02-03 05:07:00	-18.5	-20.9	2.4
2026-02-03 05:08:00	-18.4	-20.7	2.3
2026-02-03 05:09:00	-18.6	-20.6	2.0
2026-02-03 05:10:00	-19.1	-21.4	2.3
2026-02-03 05:11:00	-19.7	-21.9	2.2
2026-02-03 05:12:00	-20.0	-21.9	1.9
2026-02-03 05:13:00	-20.0	-21.9	1.9
2026-02-03 05:14:00	-19.9	-21.8	1.9
2026-02-03 05:15:00	-19.8	-21.7	1.9
2026-02-03 05:16:00	-19.6	-21.4	1.8
2026-02-03 05:17:00	-19.5	-21.3	1.8
2026-02-03 05:18:00	-19.3	-21.3	2.0
2026-02-03 05:19:00	-19.2	-21.2	2.0
2026-02-03 05:20:00	-19.0	-21.2	2.2
2026-02-03 05:21:00	-18.8	-21.0	2.2
2026-02-03 05:22:00	-18.7	-21.0	2.3
2026-02-03 05:23:00	-18.5	-21.0	2.5
2026-02-03 05:24:00	-18.4	-20.7	2.3
2026-02-03 05:25:00	-18.4	-20.4	2.0
2026-02-03 05:26:00	-18.8	-20.7	1.9
2026-02-03 05:27:00	-19.0	-21.7	2.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 05:28:00	-19.2	-21.8	2.6
2026-02-03 05:29:00	-19.2	-21.9	2.7
2026-02-03 05:30:00	-19.0	-21.8	2.8
2026-02-03 05:31:00	-18.6	-21.5	2.9
2026-02-03 05:32:00	-18.4	-21.0	2.6
2026-02-03 05:33:00	-18.3	-20.9	2.6
2026-02-03 05:34:00	-18.3	-20.8	2.5
2026-02-03 05:35:00	-18.2	-20.7	2.5
2026-02-03 05:36:00	-18.1	-20.5	2.4
2026-02-03 05:37:00	-18.1	-20.3	2.2
2026-02-03 05:38:00	-18.1	-19.5	1.4
2026-02-03 05:39:00	-18.1	-18.8	0.7
2026-02-03 05:40:00	-18.1	-18.3	0.2
2026-02-03 05:41:00	-18.1	-18.5	0.4
2026-02-03 05:42:00	-18.2	-19.2	1.0
2026-02-03 05:43:00	-18.2	-19.8	1.6
2026-02-03 05:44:00	-18.3	-20.2	1.9
2026-02-03 05:45:00	-18.2	-20.4	2.2
2026-02-03 05:46:00	-18.3	-20.6	2.3
2026-02-03 05:47:00	-18.2	-20.7	2.5
2026-02-03 05:48:00	-18.2	-20.8	2.6
2026-02-03 05:49:00	-18.1	-20.9	2.8
2026-02-03 05:50:00	-18.1	-21.0	2.9
2026-02-03 05:51:00	-18.2	-21.2	3.0
2026-02-03 05:52:00	-18.3	-21.4	3.1
2026-02-03 05:53:00	-18.6	-21.7	3.1
2026-02-03 05:54:00	-18.7	-21.9	3.2
2026-02-03 05:55:00	-18.8	-21.9	3.1
2026-02-03 05:56:00	-18.9	-21.9	3.0
2026-02-03 05:57:00	-19.2	-21.9	2.7

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 05:58:00	-19.2	-21.7	2.5
2026-02-03 05:59:00	-19.0	-21.5	2.5
2026-02-03 06:00:00	-18.9	-21.2	2.3
2026-02-03 06:01:00	-18.7	-21.1	2.4
2026-02-03 06:02:00	-18.5	-20.9	2.4
2026-02-03 06:03:00	-18.4	-20.8	2.4
2026-02-03 06:04:00	-18.3	-20.7	2.4
2026-02-03 06:05:00	-18.2	-20.6	2.4
2026-02-03 06:06:00	-18.1	-20.4	2.3
2026-02-03 06:07:00	-18.1	-19.8	1.7
2026-02-03 06:08:00	-18.3	-20.0	1.7
2026-02-03 06:09:00	-18.7	-20.7	2.0
2026-02-03 06:10:00	-19.0	-21.7	2.7
2026-02-03 06:11:00	-19.4	-21.9	2.5
2026-02-03 06:12:00	-19.5	-21.9	2.4
2026-02-03 06:13:00	-19.6	-21.8	2.2
2026-02-03 06:14:00	-19.5	-21.7	2.2
2026-02-03 06:15:00	-19.3	-21.3	2.0
2026-02-03 06:16:00	-19.2	-21.1	1.9
2026-02-03 06:17:00	-19.0	-20.8	1.8
2026-02-03 06:18:00	-18.8	-20.7	1.9
2026-02-03 06:19:00	-18.7	-20.6	1.9
2026-02-03 06:20:00	-18.5	-20.5	2.0
2026-02-03 06:21:00	-18.4	-20.4	2.0
2026-02-03 06:22:00	-18.4	-20.2	1.8
2026-02-03 06:23:00	-18.7	-20.7	2.0
2026-02-03 06:24:00	-19.2	-21.6	2.4
2026-02-03 06:25:00	-19.4	-21.9	2.5
2026-02-03 06:26:00	-19.6	-21.9	2.3
2026-02-03 06:27:00	-19.5	-21.8	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 06:28:00	-19.4	-21.6	2.2
2026-02-03 06:29:00	-19.3	-21.3	2.0
2026-02-03 06:30:00	-19.1	-21.1	2.0
2026-02-03 06:31:00	-18.9	-21.1	2.2
2026-02-03 06:32:00	-18.8	-21.0	2.2
2026-02-03 06:33:00	-18.6	-20.9	2.3
2026-02-03 06:34:00	-18.5	-20.8	2.3
2026-02-03 06:35:00	-18.4	-20.7	2.3
2026-02-03 06:36:00	-18.2	-20.6	2.4
2026-02-03 06:37:00	-18.3	-20.3	2.0
2026-02-03 06:38:00	-18.7	-20.9	2.2
2026-02-03 06:39:00	-19.2	-21.8	2.6
2026-02-03 06:40:00	-19.5	-21.9	2.4
2026-02-03 06:41:00	-19.6	-21.9	2.3
2026-02-03 06:42:00	-19.5	-21.8	2.3
2026-02-03 06:43:00	-19.4	-21.7	2.3
2026-02-03 06:44:00	-19.3	-21.4	2.1
2026-02-03 06:45:00	-19.1	-21.2	2.1
2026-02-03 06:46:00	-19.0	-21.2	2.2
2026-02-03 06:47:00	-18.8	-21.1	2.3
2026-02-03 06:48:00	-18.7	-21.0	2.3
2026-02-03 06:49:00	-18.6	-20.9	2.3
2026-02-03 06:50:00	-18.4	-20.7	2.3
2026-02-03 06:51:00	-18.3	-20.6	2.3
2026-02-03 06:52:00	-18.3	-20.4	2.1
2026-02-03 06:53:00	-18.8	-20.7	1.9
2026-02-03 06:54:00	-19.2	-21.8	2.6
2026-02-03 06:55:00	-19.4	-21.9	2.5
2026-02-03 06:56:00	-19.6	-21.9	2.3
2026-02-03 06:57:00	-19.6	-21.8	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 06:58:00	-19.5	-21.7	2.2
2026-02-03 06:59:00	-19.3	-21.5	2.2
2026-02-03 07:00:00	-19.1	-21.3	2.2
2026-02-03 07:01:00	-19.0	-21.3	2.3
2026-02-03 07:02:00	-18.8	-21.2	2.4
2026-02-03 07:03:00	-18.7	-21.2	2.5
2026-02-03 07:04:00	-18.6	-21.0	2.4
2026-02-03 07:05:00	-18.4	-20.9	2.5
2026-02-03 07:06:00	-18.3	-20.8	2.5
2026-02-03 07:07:00	-18.3	-20.6	2.3
2026-02-03 07:08:00	-18.7	-20.7	2.0
2026-02-03 07:09:00	-19.0	-21.7	2.7
2026-02-03 07:10:00	-19.3	-21.9	2.6
2026-02-03 07:11:00	-19.5	-21.9	2.4
2026-02-03 07:12:00	-19.4	-21.8	2.4
2026-02-03 07:13:00	-19.3	-21.7	2.4
2026-02-03 07:14:00	-19.2	-21.5	2.3
2026-02-03 07:15:00	-19.0	-21.4	2.4
2026-02-03 07:16:00	-18.9	-21.3	2.4
2026-02-03 07:17:00	-18.8	-21.2	2.4
2026-02-03 07:18:00	-18.6	-21.2	2.6
2026-02-03 07:19:00	-18.5	-21.1	2.6
2026-02-03 07:20:00	-18.3	-21.0	2.7
2026-02-03 07:21:00	-18.2	-20.9	2.7
2026-02-03 07:22:00	-18.2	-20.7	2.5
2026-02-03 07:23:00	-18.5	-20.5	2.0
2026-02-03 07:24:00	-19.0	-21.1	2.1
2026-02-03 07:25:00	-19.7	-21.9	2.2
2026-02-03 07:26:00	-19.9	-21.9	2.0
2026-02-03 07:27:00	-19.9	-21.9	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 07:28:00	-19.8	-21.8	2.0
2026-02-03 07:29:00	-19.7	-21.7	2.0
2026-02-03 07:30:00	-19.6	-21.3	1.7
2026-02-03 07:31:00	-19.5	-21.1	1.6
2026-02-03 07:32:00	-19.3	-21.1	1.8
2026-02-03 07:33:00	-19.1	-21.1	2.0
2026-02-03 07:34:00	-19.0	-21.0	2.0
2026-02-03 07:35:00	-18.8	-21.0	2.2
2026-02-03 07:36:00	-18.7	-20.9	2.2
2026-02-03 07:37:00	-18.5	-20.9	2.4
2026-02-03 07:38:00	-18.4	-20.7	2.3
2026-02-03 07:39:00	-18.5	-20.5	2.0
2026-02-03 07:40:00	-18.9	-20.9	2.0
2026-02-03 07:41:00	-19.5	-21.9	2.4
2026-02-03 07:42:00	-19.8	-21.9	2.1
2026-02-03 07:43:00	-19.8	-21.9	2.1
2026-02-03 07:44:00	-19.7	-21.8	2.1
2026-02-03 07:45:00	-19.6	-21.6	2.0
2026-02-03 07:46:00	-19.4	-21.4	2.0
2026-02-03 07:47:00	-19.3	-21.3	2.0
2026-02-03 07:48:00	-19.1	-21.2	2.1
2026-02-03 07:49:00	-18.9	-21.2	2.3
2026-02-03 07:50:00	-18.8	-21.1	2.3
2026-02-03 07:51:00	-18.6	-21.0	2.4
2026-02-03 07:52:00	-18.5	-21.0	2.5
2026-02-03 07:53:00	-18.4	-20.8	2.4
2026-02-03 07:54:00	-18.3	-20.7	2.4
2026-02-03 07:55:00	-18.6	-20.5	1.9
2026-02-03 07:56:00	-19.2	-21.4	2.2
2026-02-03 07:57:00	-19.8	-21.9	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 07:58:00	-20.0	-21.9	1.9
2026-02-03 07:59:00	-19.9	-21.8	1.9
2026-02-03 08:00:00	-19.8	-21.7	1.9
2026-02-03 08:01:00	-19.7	-21.6	1.9
2026-02-03 08:02:00	-19.6	-21.3	1.7
2026-02-03 08:03:00	-19.4	-21.3	1.9
2026-02-03 08:04:00	-19.3	-21.1	1.8
2026-02-03 08:05:00	-19.1	-21.1	2.0
2026-02-03 08:06:00	-18.9	-21.0	2.1
2026-02-03 08:07:00	-18.8	-21.0	2.2
2026-02-03 08:08:00	-18.6	-21.0	2.4
2026-02-03 08:09:00	-18.5	-20.9	2.4
2026-02-03 08:10:00	-18.4	-20.6	2.2
2026-02-03 08:11:00	-18.7	-20.5	1.8
2026-02-03 08:12:00	-19.2	-21.2	2.0
2026-02-03 08:13:00	-19.6	-21.8	2.2
2026-02-03 08:14:00	-19.7	-21.9	2.2
2026-02-03 08:15:00	-19.7	-21.8	2.1
2026-02-03 08:16:00	-19.6	-21.7	2.1
2026-02-03 08:17:00	-19.5	-21.5	2.0
2026-02-03 08:18:00	-19.3	-21.3	2.0
2026-02-03 08:19:00	-19.2	-21.2	2.0
2026-02-03 08:20:00	-19.1	-21.1	2.0
2026-02-03 08:21:00	-18.9	-21.1	2.2
2026-02-03 08:22:00	-18.8	-21.0	2.2
2026-02-03 08:23:00	-18.6	-20.9	2.3
2026-02-03 08:24:00	-18.4	-20.8	2.4
2026-02-03 08:25:00	-18.3	-20.7	2.4
2026-02-03 08:26:00	-18.4	-20.5	2.1
2026-02-03 08:27:00	-18.8	-20.6	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 08:28:00	-19.4	-21.7	2.3
2026-02-03 08:29:00	-19.9	-21.9	2.0
2026-02-03 08:30:00	-20.0	-21.9	1.9
2026-02-03 08:31:00	-19.9	-21.8	1.9
2026-02-03 08:32:00	-19.8	-21.7	1.9
2026-02-03 08:33:00	-19.7	-21.5	1.8
2026-02-03 08:34:00	-19.5	-21.3	1.8
2026-02-03 08:35:00	-19.4	-21.3	1.9
2026-02-03 08:36:00	-19.2	-21.2	2.0
2026-02-03 08:37:00	-19.0	-21.1	2.1
2026-02-03 08:38:00	-18.9	-21.1	2.2
2026-02-03 08:39:00	-18.8	-21.0	2.2
2026-02-03 08:40:00	-18.6	-21.0	2.4
2026-02-03 08:41:00	-18.4	-20.9	2.5
2026-02-03 08:42:00	-18.4	-20.6	2.2
2026-02-03 08:43:00	-18.8	-20.7	1.9
2026-02-03 08:44:00	-19.3	-21.3	2.0
2026-02-03 08:45:00	-19.7	-21.8	2.1
2026-02-03 08:46:00	-19.7	-21.9	2.2
2026-02-03 08:47:00	-19.6	-21.8	2.2
2026-02-03 08:48:00	-19.5	-21.6	2.1
2026-02-03 08:49:00	-19.4	-21.4	2.0
2026-02-03 08:50:00	-19.3	-21.2	1.9
2026-02-03 08:51:00	-19.1	-21.2	2.1
2026-02-03 08:52:00	-18.9	-21.1	2.2
2026-02-03 08:53:00	-18.8	-21.1	2.3
2026-02-03 08:54:00	-18.7	-20.9	2.2
2026-02-03 08:55:00	-18.5	-20.9	2.4
2026-02-03 08:56:00	-18.4	-20.7	2.3
2026-02-03 08:57:00	-18.3	-20.7	2.4

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 08:58:00	-18.6	-20.5	1.9
2026-02-03 08:59:00	-19.1	-21.3	2.2
2026-02-03 09:00:00	-19.7	-21.9	2.2
2026-02-03 09:01:00	-19.8	-21.9	2.1
2026-02-03 09:02:00	-19.9	-21.8	1.9
2026-02-03 09:03:00	-19.8	-21.7	1.9
2026-02-03 09:04:00	-19.7	-21.6	1.9
2026-02-03 09:05:00	-19.6	-21.3	1.7
2026-02-03 09:06:00	-19.4	-21.2	1.8
2026-02-03 09:07:00	-19.3	-21.1	1.8
2026-02-03 09:08:00	-19.1	-21.0	1.9
2026-02-03 09:09:00	-19.0	-21.0	2.0
2026-02-03 09:10:00	-18.8	-21.0	2.2
2026-02-03 09:11:00	-18.7	-20.9	2.2
2026-02-03 09:12:00	-18.5	-20.9	2.4
2026-02-03 09:13:00	-18.4	-20.7	2.3
2026-02-03 09:14:00	-18.6	-20.5	1.9
2026-02-03 09:15:00	-19.1	-20.9	1.8
2026-02-03 09:16:00	-19.5	-21.8	2.3
2026-02-03 09:17:00	-19.7	-21.9	2.2
2026-02-03 09:18:00	-19.7	-21.8	2.1
2026-02-03 09:19:00	-19.6	-21.7	2.1
2026-02-03 09:20:00	-19.5	-21.5	2.0
2026-02-03 09:21:00	-19.3	-21.3	2.0
2026-02-03 09:22:00	-19.2	-21.2	2.0
2026-02-03 09:23:00	-19.0	-21.2	2.2
2026-02-03 09:24:00	-18.9	-21.1	2.2
2026-02-03 09:25:00	-18.7	-21.0	2.3
2026-02-03 09:26:00	-18.6	-20.9	2.3
2026-02-03 09:27:00	-18.4	-20.8	2.4

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 09:28:00	-18.3	-20.7	2.4
2026-02-03 09:29:00	-18.4	-20.5	2.1
2026-02-03 09:30:00	-18.8	-20.8	2.0
2026-02-03 09:31:00	-19.4	-21.8	2.4
2026-02-03 09:32:00	-19.8	-21.9	2.1
2026-02-03 09:33:00	-19.9	-21.9	2.0
2026-02-03 09:34:00	-19.9	-21.8	1.9
2026-02-03 09:35:00	-19.8	-21.7	1.9
2026-02-03 09:36:00	-19.6	-21.5	1.9
2026-02-03 09:37:00	-19.5	-21.4	1.9
2026-02-03 09:38:00	-19.3	-21.3	2.0
2026-02-03 09:39:00	-19.1	-21.2	2.1
2026-02-03 09:40:00	-18.9	-21.2	2.3
2026-02-03 09:41:00	-18.8	-21.1	2.3
2026-02-03 09:42:00	-18.6	-21.0	2.4
2026-02-03 09:43:00	-18.5	-21.0	2.5
2026-02-03 09:44:00	-18.3	-20.9	2.6
2026-02-03 09:45:00	-18.5	-20.6	2.1
2026-02-03 09:46:00	-19.0	-20.8	1.8
2026-02-03 09:47:00	-19.4	-21.6	2.2
2026-02-03 09:48:00	-19.8	-21.8	2.0
2026-02-03 09:49:00	-19.8	-21.9	2.1
2026-02-03 09:50:00	-19.7	-21.8	2.1
2026-02-03 09:51:00	-19.6	-21.7	2.1
2026-02-03 09:52:00	-19.5	-21.5	2.0
2026-02-03 09:53:00	-19.4	-21.3	1.9
2026-02-03 09:54:00	-19.2	-21.3	2.1
2026-02-03 09:55:00	-19.1	-21.2	2.1
2026-02-03 09:56:00	-18.9	-21.1	2.2
2026-02-03 09:57:00	-18.8	-21.0	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 09:58:00	-18.6	-20.9	2.3
2026-02-03 09:59:00	-18.5	-20.8	2.3
2026-02-03 10:00:00	-18.4	-20.6	2.2
2026-02-03 10:01:00	-18.5	-20.5	2.0
2026-02-03 10:02:00	-18.9	-21.0	2.1
2026-02-03 10:03:00	-19.5	-21.8	2.3
2026-02-03 10:04:00	-19.9	-21.9	2.0
2026-02-03 10:05:00	-20.0	-21.9	1.9
2026-02-03 10:06:00	-19.9	-21.8	1.9
2026-02-03 10:07:00	-19.8	-21.7	1.9
2026-02-03 10:08:00	-19.7	-21.4	1.7
2026-02-03 10:09:00	-19.5	-21.3	1.8
2026-02-03 10:10:00	-19.4	-21.2	1.8
2026-02-03 10:11:00	-19.2	-21.1	1.9
2026-02-03 10:12:00	-19.1	-21.1	2.0
2026-02-03 10:13:00	-18.9	-21.0	2.1
2026-02-03 10:14:00	-18.7	-21.0	2.3
2026-02-03 10:15:00	-18.6	-21.0	2.4
2026-02-03 10:16:00	-18.4	-20.9	2.5
2026-02-03 10:17:00	-18.4	-20.5	2.1
2026-02-03 10:18:00	-18.8	-20.7	1.9
2026-02-03 10:19:00	-19.3	-21.4	2.1
2026-02-03 10:20:00	-19.7	-21.9	2.2
2026-02-03 10:21:00	-19.8	-21.9	2.1
2026-02-03 10:22:00	-19.7	-21.8	2.1
2026-02-03 10:23:00	-19.6	-21.7	2.1
2026-02-03 10:24:00	-19.5	-21.5	2.0
2026-02-03 10:25:00	-19.3	-21.3	2.0
2026-02-03 10:26:00	-19.1	-21.3	2.2
2026-02-03 10:27:00	-19.0	-21.2	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 10:28:00	-18.9	-21.2	2.3
2026-02-03 10:29:00	-18.7	-21.1	2.4
2026-02-03 10:30:00	-18.6	-21.0	2.4
2026-02-03 10:31:00	-18.4	-20.9	2.5
2026-02-03 10:32:00	-18.3	-20.7	2.4
2026-02-03 10:33:00	-18.5	-20.5	2.0
2026-02-03 10:34:00	-19.0	-21.1	2.1
2026-02-03 10:35:00	-19.6	-21.9	2.3
2026-02-03 10:36:00	-19.9	-21.9	2.0
2026-02-03 10:37:00	-19.9	-21.9	2.0
2026-02-03 10:38:00	-19.9	-21.8	1.9
2026-02-03 10:39:00	-19.8	-21.7	1.9
2026-02-03 10:40:00	-19.7	-21.4	1.7
2026-02-03 10:41:00	-19.6	-21.3	1.7
2026-02-03 10:42:00	-19.5	-21.3	1.8
2026-02-03 10:43:00	-19.3	-21.2	1.9
2026-02-03 10:44:00	-19.1	-21.1	2.0
2026-02-03 10:45:00	-19.0	-21.0	2.0
2026-02-03 10:46:00	-18.8	-21.0	2.2
2026-02-03 10:47:00	-18.7	-20.9	2.2
2026-02-03 10:48:00	-18.5	-20.8	2.3
2026-02-03 10:49:00	-18.5	-20.5	2.0
2026-02-03 10:50:00	-18.8	-20.7	1.9
2026-02-03 10:51:00	-19.3	-21.3	2.0
2026-02-03 10:52:00	-19.7	-21.8	2.1
2026-02-03 10:53:00	-19.8	-21.9	2.1
2026-02-03 10:54:00	-19.7	-21.8	2.1
2026-02-03 10:55:00	-19.6	-21.7	2.1
2026-02-03 10:56:00	-19.5	-21.4	1.9
2026-02-03 10:57:00	-19.4	-21.2	1.8

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 10:58:00	-19.2	-21.2	2.0
2026-02-03 10:59:00	-19.1	-21.1	2.0
2026-02-03 11:00:00	-18.9	-21.0	2.1
2026-02-03 11:01:00	-18.8	-20.9	2.1
2026-02-03 11:02:00	-18.6	-20.9	2.3
2026-02-03 11:03:00	-18.4	-20.7	2.3
2026-02-03 11:04:00	-18.3	-20.6	2.3
2026-02-03 11:05:00	-18.5	-20.4	1.9
2026-02-03 11:06:00	-19.0	-21.1	2.1
2026-02-03 11:07:00	-19.6	-21.9	2.3
2026-02-03 11:08:00	-19.9	-21.9	2.0
2026-02-03 11:09:00	-19.9	-21.9	2.0
2026-02-03 11:10:00	-19.9	-21.8	1.9
2026-02-03 11:11:00	-19.7	-21.7	2.0
2026-02-03 11:12:00	-19.6	-21.3	1.7
2026-02-03 11:13:00	-19.5	-21.3	1.8
2026-02-03 11:14:00	-19.3	-21.2	1.9
2026-02-03 11:15:00	-19.1	-21.2	2.1
2026-02-03 11:16:00	-19.0	-21.1	2.1
2026-02-03 11:17:00	-18.8	-21.0	2.2
2026-02-03 11:18:00	-18.7	-21.0	2.3
2026-02-03 11:19:00	-18.6	-20.9	2.3
2026-02-03 11:20:00	-18.4	-20.8	2.4
2026-02-03 11:21:00	-18.4	-20.5	2.1
2026-02-03 11:22:00	-18.9	-20.7	1.8
2026-02-03 11:23:00	-19.4	-21.6	2.2
2026-02-03 11:24:00	-19.7	-21.9	2.2
2026-02-03 11:25:00	-19.7	-21.9	2.2
2026-02-03 11:26:00	-19.6	-21.8	2.2
2026-02-03 11:27:00	-19.4	-21.6	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 11:28:00	-19.1	-21.2	2.1
2026-02-03 11:29:00	-18.7	-21.0	2.3
2026-02-03 11:30:00	-18.4	-20.8	2.4
2026-02-03 11:31:00	-18.3	-20.7	2.4
2026-02-03 11:32:00	-18.3	-20.6	2.3
2026-02-03 11:33:00	-18.2	-20.5	2.3
2026-02-03 11:34:00	-18.1	-20.0	1.9
2026-02-03 11:35:00	-18.1	-19.4	1.3
2026-02-03 11:36:00	-18.1	-19.5	1.4
2026-02-03 11:37:00	-18.1	-20.3	2.2
2026-02-03 11:38:00	-18.1	-19.4	1.3
2026-02-03 11:39:00	-18.1	-19.0	0.9
2026-02-03 11:40:00	-18.2	-19.0	0.8
2026-02-03 11:41:00	-18.3	-19.5	1.2
2026-02-03 11:42:00	-18.4	-20.1	1.7
2026-02-03 11:43:00	-18.2	-20.4	2.2
2026-02-03 11:44:00	-18.3	-20.6	2.3
2026-02-03 11:45:00	-18.4	-20.7	2.3
2026-02-03 11:46:00	-18.2	-20.8	2.6
2026-02-03 11:47:00	-18.2	-20.8	2.6
2026-02-03 11:48:00	-18.1	-20.8	2.7
2026-02-03 11:49:00	-18.1	-20.9	2.8
2026-02-03 11:50:00	-18.1	-21.0	2.9
2026-02-03 11:51:00	-18.2	-21.3	3.1
2026-02-03 11:52:00	-18.3	-21.5	3.2
2026-02-03 11:53:00	-18.6	-21.8	3.2
2026-02-03 11:54:00	-18.9	-21.8	2.9
2026-02-03 11:55:00	-18.9	-21.9	3.0
2026-02-03 11:56:00	-19.3	-21.9	2.6
2026-02-03 11:57:00	-19.3	-21.8	2.5

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 11:58:00	-19.3	-21.7	2.4
2026-02-03 11:59:00	-19.1	-21.3	2.2
2026-02-03 12:00:00	-18.9	-21.0	2.1
2026-02-03 12:01:00	-18.7	-20.9	2.2
2026-02-03 12:02:00	-18.5	-20.8	2.3
2026-02-03 12:03:00	-18.4	-20.7	2.3
2026-02-03 12:04:00	-18.3	-20.6	2.3
2026-02-03 12:05:00	-18.2	-20.5	2.3
2026-02-03 12:06:00	-18.1	-20.3	2.2
2026-02-03 12:07:00	-18.1	-19.5	1.4
2026-02-03 12:08:00	-18.5	-20.1	1.6
2026-02-03 12:09:00	-18.8	-20.8	2.0
2026-02-03 12:10:00	-19.1	-21.7	2.6
2026-02-03 12:11:00	-19.3	-21.9	2.6
2026-02-03 12:12:00	-19.5	-21.9	2.4
2026-02-03 12:13:00	-19.5	-21.8	2.3
2026-02-03 12:14:00	-19.5	-21.6	2.1
2026-02-03 12:15:00	-19.3	-21.3	2.0
2026-02-03 12:16:00	-19.1	-21.0	1.9
2026-02-03 12:17:00	-19.0	-20.7	1.7
2026-02-03 12:18:00	-18.8	-20.7	1.9
2026-02-03 12:19:00	-18.7	-20.5	1.8
2026-02-03 12:20:00	-18.5	-20.4	1.9
2026-02-03 12:21:00	-18.4	-20.3	1.9
2026-02-03 12:22:00	-18.6	-20.2	1.6
2026-02-03 12:23:00	-18.9	-21.0	2.1
2026-02-03 12:24:00	-19.3	-21.8	2.5
2026-02-03 12:25:00	-19.5	-21.9	2.4
2026-02-03 12:26:00	-19.5	-21.8	2.3
2026-02-03 12:27:00	-19.4	-21.7	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 12:28:00	-19.3	-21.5	2.2
2026-02-03 12:29:00	-19.1	-21.2	2.1
2026-02-03 12:30:00	-19.0	-21.1	2.1
2026-02-03 12:31:00	-18.8	-21.0	2.2
2026-02-03 12:32:00	-18.7	-20.9	2.2
2026-02-03 12:33:00	-18.5	-20.8	2.3
2026-02-03 12:34:00	-18.4	-20.7	2.3
2026-02-03 12:35:00	-18.3	-20.6	2.3
2026-02-03 12:36:00	-18.3	-20.2	1.9
2026-02-03 12:37:00	-18.6	-20.6	2.0
2026-02-03 12:38:00	-19.1	-21.5	2.4
2026-02-03 12:39:00	-19.4	-21.9	2.5
2026-02-03 12:40:00	-19.6	-21.9	2.3
2026-02-03 12:41:00	-19.5	-21.8	2.3
2026-02-03 12:42:00	-19.4	-21.7	2.3
2026-02-03 12:43:00	-19.2	-21.4	2.2
2026-02-03 12:44:00	-19.1	-21.2	2.1
2026-02-03 12:45:00	-18.9	-21.1	2.2
2026-02-03 12:46:00	-18.8	-21.0	2.2
2026-02-03 12:47:00	-18.6	-21.0	2.4
2026-02-03 12:48:00	-18.5	-20.8	2.3
2026-02-03 12:49:00	-18.4	-20.7	2.3
2026-02-03 12:50:00	-18.2	-20.6	2.4
2026-02-03 12:51:00	-18.3	-20.3	2.0
2026-02-03 12:52:00	-18.7	-20.8	2.1
2026-02-03 12:53:00	-19.1	-21.8	2.7
2026-02-03 12:54:00	-19.4	-21.9	2.5
2026-02-03 12:55:00	-19.4	-21.9	2.5
2026-02-03 12:56:00	-19.4	-21.8	2.4
2026-02-03 12:57:00	-19.3	-21.7	2.4

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 12:58:00	-19.1	-21.4	2.3
2026-02-03 12:59:00	-19.0	-21.3	2.3
2026-02-03 13:00:00	-18.9	-21.3	2.4
2026-02-03 13:01:00	-18.7	-21.2	2.5
2026-02-03 13:02:00	-18.6	-21.1	2.5
2026-02-03 13:03:00	-18.4	-20.9	2.5
2026-02-03 13:04:00	-18.3	-20.8	2.5
2026-02-03 13:05:00	-18.2	-20.7	2.5
2026-02-03 13:06:00	-18.3	-20.4	2.1
2026-02-03 13:07:00	-18.8	-20.7	1.9
2026-02-03 13:08:00	-19.3	-21.6	2.3
2026-02-03 13:09:00	-19.8	-21.9	2.1
2026-02-03 13:10:00	-19.9	-21.9	2.0
2026-02-03 13:11:00	-19.9	-21.8	1.9
2026-02-03 13:12:00	-19.8	-21.7	1.9
2026-02-03 13:13:00	-19.7	-21.5	1.8
2026-02-03 13:14:00	-19.6	-21.2	1.6
2026-02-03 13:15:00	-19.4	-21.0	1.6
2026-02-03 13:16:00	-19.2	-21.0	1.8
2026-02-03 13:17:00	-19.0	-21.0	2.0
2026-02-03 13:18:00	-18.9	-21.0	2.1
2026-02-03 13:19:00	-18.8	-20.9	2.1
2026-02-03 13:20:00	-18.6	-20.8	2.2
2026-02-03 13:21:00	-18.4	-20.7	2.3
2026-02-03 13:22:00	-18.4	-20.4	2.0
2026-02-03 13:23:00	-18.7	-20.5	1.8
2026-02-03 13:24:00	-19.2	-21.3	2.1
2026-02-03 13:25:00	-19.5	-21.8	2.3
2026-02-03 13:26:00	-19.7	-21.9	2.2
2026-02-03 13:27:00	-19.6	-21.8	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 13:28:00	-19.5	-21.6	2.1
2026-02-03 13:29:00	-19.4	-21.3	1.9
2026-02-03 13:30:00	-19.2	-21.2	2.0
2026-02-03 13:31:00	-19.1	-21.2	2.1
2026-02-03 13:32:00	-18.9	-21.1	2.2
2026-02-03 13:33:00	-18.8	-21.0	2.2
2026-02-03 13:34:00	-18.6	-20.9	2.3
2026-02-03 13:35:00	-18.4	-20.8	2.4
2026-02-03 13:36:00	-18.3	-20.6	2.3
2026-02-03 13:37:00	-18.3	-20.5	2.2
2026-02-03 13:38:00	-18.7	-20.4	1.7
2026-02-03 13:39:00	-19.2	-21.4	2.2
2026-02-03 13:40:00	-19.8	-21.9	2.1
2026-02-03 13:41:00	-19.9	-21.9	2.0
2026-02-03 13:42:00	-19.8	-21.8	2.0
2026-02-03 13:43:00	-19.8	-21.7	1.9
2026-02-03 13:44:00	-19.7	-21.5	1.8
2026-02-03 13:45:00	-19.6	-21.2	1.6
2026-02-03 13:46:00	-19.5	-21.2	1.7
2026-02-03 13:47:00	-19.3	-21.1	1.8
2026-02-03 13:48:00	-19.2	-21.1	1.9
2026-02-03 13:49:00	-19.1	-21.0	1.9
2026-02-03 13:50:00	-18.9	-21.0	2.1
2026-02-03 13:51:00	-18.7	-21.0	2.3
2026-02-03 13:52:00	-18.6	-20.9	2.3
2026-02-03 13:53:00	-18.5	-20.6	2.1
2026-02-03 13:54:00	-18.7	-20.5	1.8
2026-02-03 13:55:00	-19.2	-20.9	1.7
2026-02-03 13:56:00	-19.5	-21.8	2.3
2026-02-03 13:57:00	-19.8	-21.9	2.1

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 13:58:00	-19.8	-21.8	2.0
2026-02-03 13:59:00	-19.7	-21.7	2.0
2026-02-03 14:00:00	-19.6	-21.5	1.9
2026-02-03 14:01:00	-19.5	-21.2	1.7
2026-02-03 14:02:00	-19.3	-21.1	1.8
2026-02-03 14:03:00	-19.1	-21.1	2.0
2026-02-03 14:04:00	-19.0	-21.0	2.0
2026-02-03 14:05:00	-18.8	-21.0	2.2
2026-02-03 14:06:00	-18.7	-20.9	2.2
2026-02-03 14:07:00	-18.5	-20.7	2.2
2026-02-03 14:08:00	-18.4	-20.6	2.2
2026-02-03 14:09:00	-18.5	-20.4	1.9
2026-02-03 14:10:00	-19.0	-20.9	1.9
2026-02-03 14:11:00	-19.5	-21.8	2.3
2026-02-03 14:12:00	-19.9	-21.9	2.0
2026-02-03 14:13:00	-19.9	-21.9	2.0
2026-02-03 14:14:00	-19.9	-21.8	1.9
2026-02-03 14:15:00	-19.8	-21.7	1.9
2026-02-03 14:16:00	-19.7	-21.4	1.7
2026-02-03 14:17:00	-19.6	-21.3	1.7
2026-02-03 14:18:00	-19.4	-21.3	1.9
2026-02-03 14:19:00	-19.2	-21.2	2.0
2026-02-03 14:20:00	-19.1	-21.1	2.0
2026-02-03 14:21:00	-18.9	-21.0	2.1
2026-02-03 14:22:00	-18.7	-21.0	2.3
2026-02-03 14:23:00	-18.6	-21.0	2.4
2026-02-03 14:24:00	-18.4	-20.9	2.5
2026-02-03 14:25:00	-18.4	-20.5	2.1
2026-02-03 14:26:00	-18.8	-20.5	1.7
2026-02-03 14:27:00	-19.2	-21.4	2.2

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 14:28:00	-19.7	-21.8	2.1
2026-02-03 14:29:00	-19.8	-21.9	2.1
2026-02-03 14:30:00	-19.7	-21.8	2.1
2026-02-03 14:31:00	-19.6	-21.7	2.1
2026-02-03 14:32:00	-19.5	-21.5	2.0
2026-02-03 14:33:00	-19.3	-21.3	2.0
2026-02-03 14:34:00	-19.2	-21.2	2.0
2026-02-03 14:35:00	-19.1	-21.2	2.1
2026-02-03 14:36:00	-18.9	-21.1	2.2
2026-02-03 14:37:00	-18.8	-21.0	2.2
2026-02-03 14:38:00	-18.7	-20.8	2.1
2026-02-03 14:39:00	-18.5	-20.7	2.2
2026-02-03 14:40:00	-18.4	-20.6	2.2
2026-02-03 14:41:00	-18.6	-20.4	1.8
2026-02-03 14:42:00	-19.0	-21.0	2.0
2026-02-03 14:43:00	-19.5	-21.8	2.3
2026-02-03 14:44:00	-19.9	-21.9	2.0
2026-02-03 14:45:00	-19.9	-21.9	2.0
2026-02-03 14:46:00	-19.9	-21.8	1.9
2026-02-03 14:47:00	-19.8	-21.7	1.9
2026-02-03 14:48:00	-19.7	-21.4	1.7
2026-02-03 14:49:00	-19.5	-21.3	1.8
2026-02-03 14:50:00	-19.4	-21.2	1.8
2026-02-03 14:51:00	-19.2	-21.1	1.9
2026-02-03 14:52:00	-19.1	-21.1	2.0
2026-02-03 14:53:00	-18.9	-21.0	2.1
2026-02-03 14:54:00	-18.7	-21.0	2.3
2026-02-03 14:55:00	-18.6	-20.9	2.3
2026-02-03 14:56:00	-18.4	-20.8	2.4
2026-02-03 14:57:00	-18.5	-20.5	2.0

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 14:58:00	-18.8	-20.7	1.9
2026-02-03 14:59:00	-19.4	-21.4	2.0
2026-02-03 15:00:00	-19.7	-21.8	2.1
2026-02-03 15:01:00	-19.8	-21.9	2.1
2026-02-03 15:02:00	-19.7	-21.8	2.1
2026-02-03 15:03:00	-19.6	-21.6	2.0
2026-02-03 15:04:00	-19.4	-21.4	2.0
2026-02-03 15:05:00	-19.3	-21.1	1.8
2026-02-03 15:06:00	-19.1	-21.1	2.0
2026-02-03 15:07:00	-18.9	-21.1	2.2
2026-02-03 15:08:00	-18.8	-21.0	2.2
2026-02-03 15:09:00	-18.7	-20.9	2.2
2026-02-03 15:10:00	-18.5	-20.7	2.2
2026-02-03 15:11:00	-18.4	-20.6	2.2
2026-02-03 15:12:00	-18.3	-20.5	2.2
2026-02-03 15:13:00	-18.7	-20.4	1.7
2026-02-03 15:14:00	-19.2	-21.4	2.2
2026-02-03 15:15:00	-19.7	-21.9	2.2
2026-02-03 15:16:00	-19.9	-21.9	2.0
2026-02-03 15:17:00	-19.9	-21.9	2.0
2026-02-03 15:18:00	-19.9	-21.8	1.9
2026-02-03 15:19:00	-19.8	-21.7	1.9
2026-02-03 15:20:00	-19.7	-21.3	1.6
2026-02-03 15:21:00	-19.6	-21.2	1.6
2026-02-03 15:22:00	-19.4	-21.2	1.8
2026-02-03 15:23:00	-19.2	-21.1	1.9
2026-02-03 15:24:00	-19.1	-21.1	2.0
2026-02-03 15:25:00	-18.9	-21.0	2.1
2026-02-03 15:26:00	-18.8	-21.0	2.2
2026-02-03 15:27:00	-18.6	-20.9	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 15:28:00	-18.5	-20.6	2.1
2026-02-03 15:29:00	-18.6	-20.5	1.9
2026-02-03 15:30:00	-19.1	-20.7	1.6
2026-02-03 15:31:00	-19.5	-21.7	2.2
2026-02-03 15:32:00	-19.7	-21.9	2.2
2026-02-03 15:33:00	-19.7	-21.9	2.2
2026-02-03 15:34:00	-19.6	-21.8	2.2
2026-02-03 15:35:00	-19.5	-21.6	2.1
2026-02-03 15:36:00	-19.4	-21.3	1.9
2026-02-03 15:37:00	-19.3	-21.1	1.8
2026-02-03 15:38:00	-19.1	-21.1	2.0
2026-02-03 15:39:00	-18.9	-21.0	2.1
2026-02-03 15:40:00	-18.8	-21.0	2.2
2026-02-03 15:41:00	-18.6	-20.9	2.3
2026-02-03 15:42:00	-18.5	-20.7	2.2
2026-02-03 15:43:00	-18.4	-20.7	2.3
2026-02-03 15:44:00	-18.4	-20.5	2.1
2026-02-03 15:45:00	-18.8	-20.6	1.8
2026-02-03 15:46:00	-19.3	-21.6	2.3
2026-02-03 15:47:00	-19.8	-21.9	2.1
2026-02-03 15:48:00	-19.9	-21.9	2.0
2026-02-03 15:49:00	-19.9	-21.8	1.9
2026-02-03 15:50:00	-19.8	-21.7	1.9
2026-02-03 15:51:00	-19.7	-21.5	1.8
2026-02-03 15:52:00	-19.6	-21.3	1.7
2026-02-03 15:53:00	-19.4	-21.3	1.9
2026-02-03 15:54:00	-19.2	-21.3	2.1
2026-02-03 15:55:00	-19.1	-21.2	2.1
2026-02-03 15:56:00	-18.9	-21.1	2.2
2026-02-03 15:57:00	-18.8	-21.1	2.3

时间	所有点最大值 (timax)	所有点最小值 (timin)	timax-timin
2026-02-03 15:58:00	-18.6	-21.0	2.4
2026-02-03 15:59:00	-18.5	-20.9	2.4
2026-02-03 16:00:00	-18.4	-20.6	2.2