

tempmate. -S1 V2

Registrador de temperatura USB, de un solo uso, para monitorizar la cadena de frío



V2
Nuevas
características

- + 2 Años de vida útil¹
- + Informe automático en PDF y CSV
- + Más de 180 días² de grabación
- + Reprogramable
- + Más de 5 límites de alarma
- + LEDs de estado y activación
- + Certificado de validación incluido
- + Copia de seguridad³

1 Depende de las condiciones de almacenamiento / 2 Dependiendo de su configuración / 3 Grabación, incluso si se detiene antes de tiempo



PRODUCTOS FARMACEUTICOS



ALIMENTACION



PRODUCTOS TECNICOS

Intuitivo registrador de temperatura de un solo uso, para monitorizar la cadena de frío de manera fiable y económica.

Los nuevos registradores tempmate.®-S1 V2, llevan integrado un puerto USB y un software de generación de PDF y CSV, así que no se requiere ningún software o hardware para conectar y leer los datos de temperatura registrados



USB Connection



IP 67 Protected



Temperature Range
-30°C to +70°C



EN 12830 Compliant



Automatic PDF & CSV Report



German Quality

tempmate.[®]S1 V2

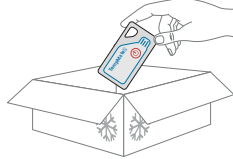
If temperature matters.



Fácil manejo



01 Preconfigurado y listo para su uso



02 Incluye un tempmate.[®]S1 en sus envíos



03 Conecte el registrador parado (stop), a un puerto USB



04 Informe automático en PDF y CSV, con todos los detalles

¿Interesado en su cadena de frío?

tempmate.[®]S1 monitoriza continuamente todos los datos relevantes.

Los registradores tempmate.[®]S1 están especialmente diseñados para monitorizar cualquier cadena de frío en la logística. El dispositivo tempmate.[®]S1 está preprogramado y se puede utilizar al instante para controlar sus envíos sensibles a la temperatura. El informe generado en PDF y CSV contiene información detallada como la curva de datos, cada una de las mediciones en formato de tabla e informaciones estadísticas. El software opcional tempbase.[®] para reprogramación y gestión de los datos, se puede descargar gratuitamente.

Un vistazo a sus beneficios

- + Rentable y fiable
- + Diseño inteligente, funcionamiento intuitivo
- + Packing impermeable y compatible con alimentos
- + No se requiere hardware o software adicional
- + Detallado informe en PDF y CSV que incluye gráfico y tabla de datos
- + LEDs inteligentes para monitorizar su estado
- + Duración (caducidad) ampliada a 2 años
- + Reprogramable

Características técnicas

Opciones de grabación: Un solo uso
 Rango de temperatura: -30 °C a +70 °C
 Precisión (temperatura): +/- 0,5 °C
 Resolución (temperatura): 0,1 °C
 Capacidad de almacenamiento de datos: 16.000 lecturas
 Duración de la batería: 2 años¹ / CR2450 Pila de botón
 Intervalo de grabación: 10 minutos (STD, otras bajo pedido)
 Duración de la grabación: Más de 110 días² (STD, otras bajo pedido)
 Modo de inicio (start): Botón o software
 Modo de parada (stop): Botón, software, o cuando este lleno
 Protección clase: IP67 / NEMA 6
 Dimensiones: 83mm x 47mm x 7mm

Peso: 14,6 gr.

Certificaciones: EN 12830, CE, RoHS

Certificado de validación: En papel y archivo PDF en la memoria

Software: Lector de PDF o CSV / tempbase.[®] opcional

Generación de informes: Informe automático en PDF o CSV

Password (protección): Opcional bajo petición

Conexión: USB 2.0, A-Type

Configuración de alarma: Opcional, más de 5 puntos

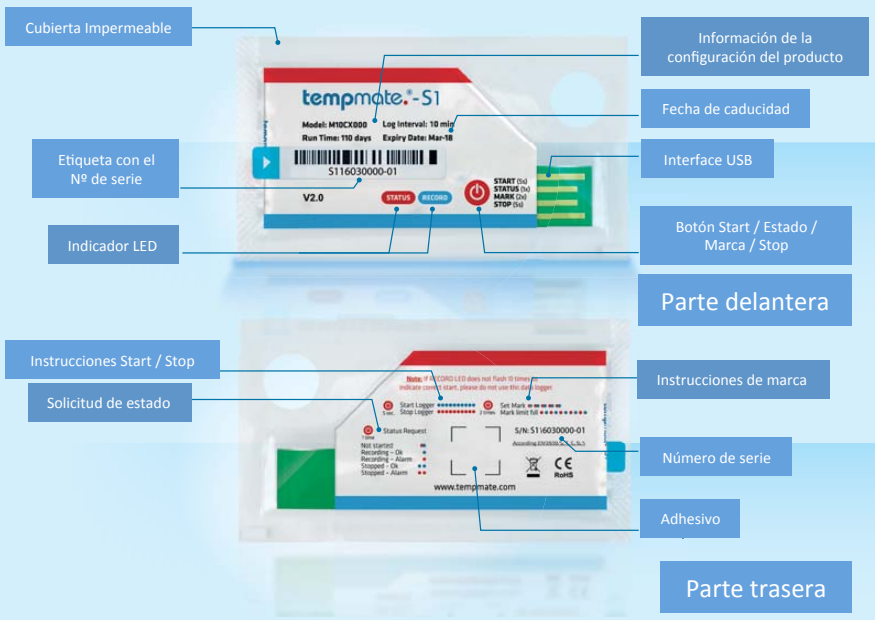
Reprogramable: Si, con el software gratuito tempbase.[®]

Accesorios incluidos: Documentos de viaje, certificado, tarjetas reprogramación y bolsa precintada

1. Dependiendo de las condiciones óptimas de almacenamiento (+15°C a +23°C / 45% a 75% rH).

2. Dependiendo de la temperatura (muy baja / muy alta, pueden acortarla)

Distribuidor exclusivo para España:



Instrucciones de uso



1. Para iniciar la grabación del registrador, presione el botón start durante 5 segundos. El indicador **RECORD LED** parpadeará 10 veces y esto indicará un correcto inicio de la grabación. Retire la etiqueta con el número de serie para guardarla como referencia.

2. Pulse el botón, en cualquier momento, para comprobar el estado actual del registrador. Pulse dos veces para establecer una marca en el informe. Vea los detalles de esta opción en las tablas situadas mas abajo.



3. Mantenga presionado el botón durante un mínimo de 5 segundos para detener la grabación. El indicador **STATUS LED** parpadeará 10 veces y esto indicará una correcta parada de la grabación.

4. Después de detener la grabación, rompa el precinto plástico y conecte el registrador al puerto USB de su ordenador. El informe en PDF y CVS, se generará automáticamente y lo podrá encontrar en la carpeta "tempmate" del dispositivo.

Indicaciones de funcionamiento

Start / Stop

Estado	Acción	LED de confirmación:
Iniciar la Grabación	Presionar 5 seg. El botón	RECORD LED parpadea 10 veces ●●●●●●●●●●
Establecer una Marca	Doble clic en el botón	STATUS LED + RECORD LED parpadean 5 veces ●●●●●●●●
Detener la Grabación	Presionar 5 seg. El botón	STATUS LED parpadean 10 veces ●●●●●●●●●●

Solicitud de Estado, presionando 1 vez el botón

Estado	Acción	LED de confirmación:
Parado	Presionar el botón 1 vez	STATUS LED + RECORD LED parpadea 1 vez ●●
Grabación OK	Presionar el botón 1 vez	RECORD LED parpadea 1 vez ●
Grabación Alarma	Presionar el botón 1 vez	STATUS LED parpadean 1 vez ●
Parada OK	Presionar el botón 1 vez	RECORD LED parpadea 2 veces ●●
Parada Alarma	Presionar el botón 1 vez	STATUS LED parpadean 2 veces ●●

Resumen del producto

Este documento describe los métodos específicos de validación ejecutados por los registradores tempmate.®-S1, con el propósito de garantizar el correcto funcionamiento de los registradores de temperatura tempmate.®-S1 y proporcionar un registro fiable de la temperatura y los horarios durante el transporte y almacenamiento.

Características técnicas

Unidad de Temperatura: Celsius (°C)
 Rango de Temperatura: -30°C a +70°C
 Temperatura de Funcionamiento: -30°C a +70°C
 Resolución (temperatura): 0,1°C
 Precisión (temperatura): +/-0,5°C (-20 °C a +40 °C)
 +/- 1°C para otros rangos
 Ciclo de Grabación:
 Mas de 160 días (dependiendo del modelo)
 Umbrales de Alarma: Disponible opcionalmente
 Programable: Opcional vía el software tempbase.®-D (V2 o superior)

Tipo de Informe: PDF encriptado y CSV
 Interface de datos: USB (dispositivo USB tempmate.®)
 Batería: Batería de litio CR2450
 Duración: 2 años (fecha de caducidad en la parte delantera)
 Sistema Operativo: Windows o Mac
 Zona Horario: UTC (UTC = GMT)
 Protección Clase: IP67 (impermeable)
 Tamaño: 80,00 mm / 47,30 mm / 7,00 mm
 Peso: 15 gr. Aprox.
 Condiciones de Almacenamiento: +15°C a +23°C / 45% a 75% rH).

Manual del Usuario **tempmate.®-S1**

Registrador de temperatura de un solo uso



tempmate.®

Manual de instrucciones

Registrador de temperatura de un solo uso



Toda la Agricultura en Internet

NOTA

- Cuando el registrador de temperatura **tempmate.®-S1** está detenido y se conecta al ordenador por primera vez, los dos LEDs parpadean para indicar que el informe en PDF se está generando. En ese momento, no desconecte el registrador, hasta que ambos LEDs estén encendidos, que indicará que el proceso finalizó.
- Cuando se detiene el registrador **tempmate.®-S1**, ya no se puede volver a poner en marcha nuevamente.
- No ponga el registrador **tempmate.®-S1** con líquidos corrosivos.
- El registrador **tempmate.®-S1** lleva una batería de litio CR2450 no reemplazable. No la exponga directamente al calor. No la meta en el microondas.
- Guarde el registrador **tempmate.®-S1** a temperatura ambiente y no lo utilice después de la fecha de caducidad.
- Por favor, recicle o elimine el registrador **tempmate.®-S1** de acuerdo a las leyes y regulaciones locales.
- Para reprogramar el registrador **tempmate.®-S1**, necesitará el software **tempbase.®-D** (V2 o superior). Por favor siga las instrucciones del manual o visite www.tempmate.com para más información.

1:1 Tabla de conversión de la zona horaria

Los horarios del informe en PDF del registrador **tempmate.®-S1**, son UTC. Calcule la diferencia a su hora local.

Value	Time Zone
(UTC + 13:00)	Nuku'alofa
(UTC + 12:00)	Auckland, Wellington, Fiji, Karnchatka, Marshall Is.
(UTC + 11:00)	Magadan, Solomon Is., New Caledonia
(UTC + 10:00)	Brisbane, Canberra, Melbourne, Sydney, Hobard, Vladivostok, Guam, Port Moersby
(UTC + 09:00)	Yakutsk, Osaka, Sapporo, Tokyo, Seoul, Adelaide, Darwin
(UTC + 08:00)	Perth, Taipei, Kuala Lumpur, Singapore, Irkutsk, Ulaan Bataar, Beijing, Chongqing, Hong Kong, Urumqi
(UTC + 07:00)	Krasnoyarsk, Bangkok, Hanoi, Jakarta
(UTC + 06:00)	Astana, Dhaka, Yangon (Rangoon), Almaty, Novosibirsk
(UTC + 05:00)	Ekaterinburg, Chennai, Kolkata, Mumbai, New Dehli, Kathmandu, Islamabad, Karachi, Sri Jayawardenepura, Tashkent
(UTC + 04:00)	Kabul, Abu Dhabi, Muscat, Yerevan, Baku, Caucasus Standard Time
(UTC + 03:00)	Moscow, St. Petersburg, Volgograd, Tehran, Tbilisi, Nairobi, Baghdad, Kuwait, Riyadh
(UTC + 02:00)	Minsk, Cairo, Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius, Athens, Bucharest, Istanbul, Jerusalem, Amman, Beirut, Harare, Pretoria
(UTC + 01:00)	Brussels, Copenhagen, Madrid, Paris, West Central Africa, Sarajevo, Skopje, Warsaw, Zagreb, Belgrade, Bratislava, Budapest, Ljubljana, Prague
(UTC ± 00:00)	Dublin, Edinburgh, Lisbon, London, Monrovia, Reykjavik, Casablanca
(UTC - 01:00)	Azores, Cape Verde Is.
(UTC - 02:00)	Mid-Atlantic
(UTC - 03:00)	Buenos Aires, Brasilia, Greenland, Monetvideo, Newfoundland, Georgetown
(UTC - 04:00)	Atlantic Time (Canada), Manaus, Santiago, La Paz, Caracas
(UTC - 05:00)	Eastern Time (US & Canada), Bogota, Lima, Quito, Rio Branco
(UTC - 06:00)	Central Time (US & Canada), Guadalajara, Mexico City, Monterrey, Central America
(UTC - 07:00)	Mountain Time (US & Canada), Arizona, Chihuahua, La Paz, Mazatlan
(UTC - 08:00)	Pacific Time (US & Canada)
(UTC - 09:00)	Alaska
(UTC - 10:00)	Hawaii
(UTC - 11:00)	Midway Island, Samos
(UTC - 12:00)	International Date Line West

TempMate Instrucciones



Presionar el botón

1. Para iniciar la grabación del registrador, presione el botón "start" durante 5 segundos. El indicador LED parpadeará 5 veces



Retirar la etiqueta con el N° de dispositivo

2. Retire la etiqueta del código de barras para usarlo posteriormente. El numero de serie concuerda con el del informe PDF



Presionar el botón

3. Para detener la grabación del registrador, presione el botón "stop" durante 5 segundos. El indicador LED parpadeará 5 veces



Rompa el precinto

4. Una vez detenida la grabación, retire la cubierta plástica del registrador y conéctelo al puerto USB del ordenador. El informe PDF se generara automáticamente.

¡Intuitivo y fácil de usar!

Botón STATUS	ACCION	LED
INACTIVO	Presionar levemente el botón	RECORD LED parpadea 1 vez
ACTIVO	Ninguna	RECORD LED parpadea 1 vez por minuto
PARADO	Presionar levemente el botón	STATUS LED parpadea 1 vez

Botón START / STOP	LED STATUS RECORD	
Presione el botón "start" durante 5 segundos	El led RECORD parpadeará 5 veces	Comienzo de la grabación
Presione el botón "stop" durante 5 segundos	El led STATUS parpadeará 5 veces	Stop de la grabación



File Created Date: 05/08/14 09:09:45

Data Report

Note: All times shown are based on UTC and 24-Hour clock [MM/DD/YY HH:MM:SS]

Device Information

Device: TMS30CC433	Serial Number: TMS140212345C
Start Delay: 30 min	Log Interval: 3 min
Alarm Delay: 30 min	Alarm Mode: Cumulative

Logging Summary

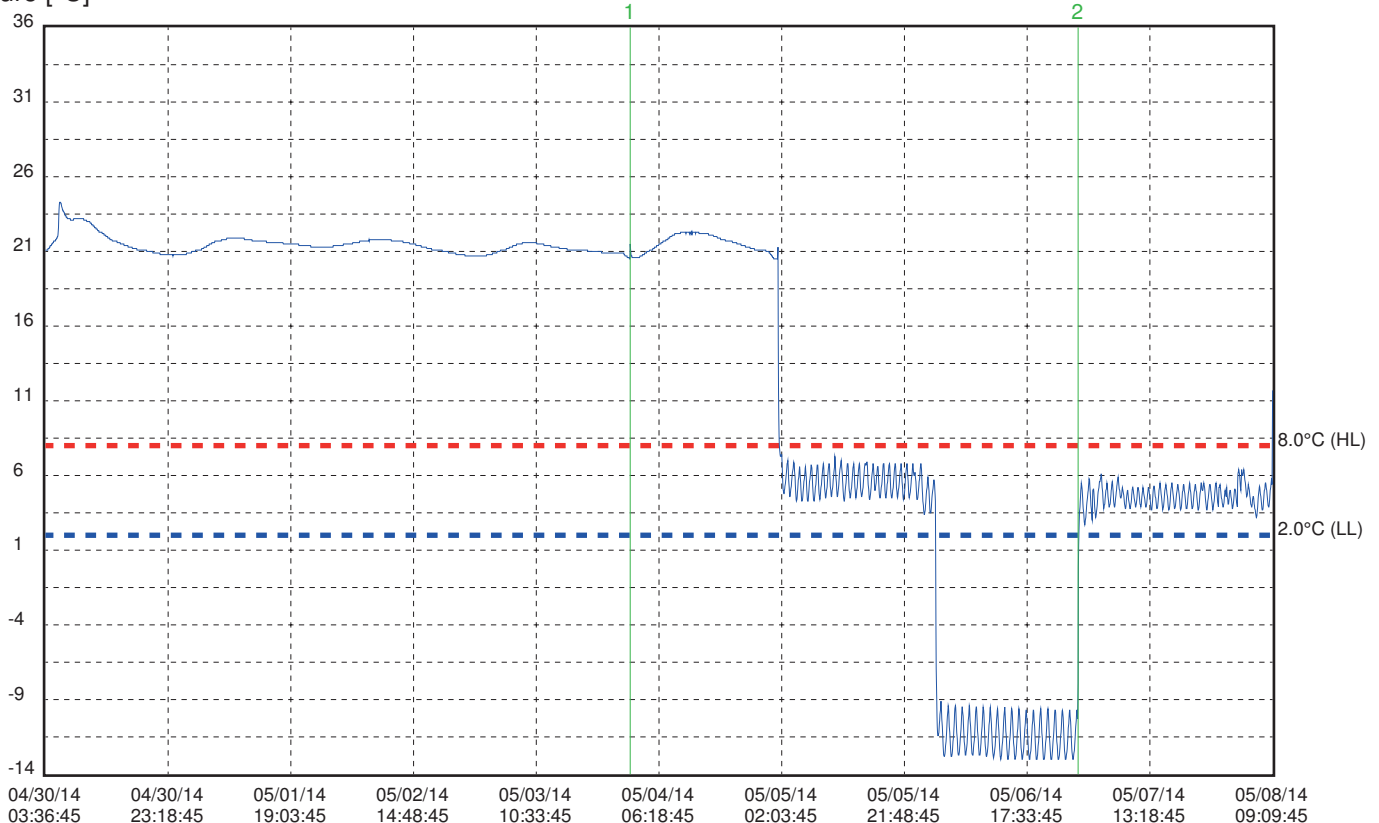
Highest Temperature: 24.3°C 04/30/14 05:54:45	Start Time: 04/30/14 03:36:45
Lowest Temperature: -13.0°C 05/06/14 13:18:45	Stop Time: 05/08/14 09:09:45
Average Temperature: 12.9°C	Elapsed Time: 08d 05h 36m 00s
Stop Mode: Manual Stop	Data Points: 3952
MKT: 17.6°C	

Marked Events

1: 05/04/14 01:42:45 21.5°C 2: 05/07/14 01:45:45 -7.9°C

Alarm Settings	Alarm Events	Total Time	First Triggered	Alarm Status
Max: 8.0°C	1	04d 22h 09m 00s	04/30/14 04:03:45	ALARM
Min: 2.0°C	1	00d 23h 03m 00s	05/06/14 03:18:45	ALARM

Temperature [°C]



Date/Time

Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C
05/05/14	03:36:45	5.3	05/05/14	08:36:45	6.1	05/05/14	13:36:45	6.7	05/05/14	18:36:45	5.9	05/05/14	23:36:45	5.9	05/06/14	04:36:45	-11.2
05/05/14	03:39:45	5.6	05/05/14	08:39:45	6.3	05/05/14	13:39:45	6.8	05/05/14	18:39:45	5.4	05/05/14	23:39:45	5.6	05/06/14	04:39:45	-10.8
05/05/14	03:42:45	5.8	05/05/14	08:42:45	6.5	05/05/14	13:42:45	6.6	05/05/14	18:42:45	5.0	05/05/14	23:42:45	5.2	05/06/14	04:42:45	-10.4
05/05/14	03:45:45	6.0	05/05/14	08:45:45	6.8	05/05/14	13:45:45	6.2	05/05/14	18:45:45	4.6	05/05/14	23:45:45	4.9	05/06/14	04:45:45	-10.1
05/05/14	03:48:45	6.2	05/05/14	08:48:45	6.7	05/05/14	13:48:45	5.7	05/05/14	18:48:45	4.5	05/05/14	23:48:45	4.5	05/06/14	04:48:45	-9.7
05/05/14	03:51:45	6.3	05/05/14	08:51:45	6.4	05/05/14	13:51:45	5.3	05/05/14	18:51:45	4.5	05/05/14	23:51:45	4.4	05/06/14	04:51:45	-9.4
05/05/14	03:54:45	6.5	05/05/14	08:54:45	5.9	05/05/14	13:54:45	4.9	05/05/14	18:54:45	4.7	05/05/14	23:54:45	4.4	05/06/14	04:54:45	-9.5
05/05/14	03:57:45	6.8	05/05/14	08:57:45	5.5	05/05/14	13:57:45	4.6	05/05/14	18:57:45	4.9	05/05/14	23:57:45	4.5	05/06/14	04:57:45	-9.8
05/05/14	04:00:45	6.9	05/05/14	09:00:45	5.1	05/05/14	14:00:45	4.5	05/05/14	19:00:45	5.1	05/06/14	00:00:45	4.7	05/06/14	05:00:45	-10.3
05/05/14	04:03:45	6.8	05/05/14	09:03:45	4.8	05/05/14	14:03:45	4.6	05/05/14	19:03:45	5.4	05/06/14	00:03:45	4.9	05/06/14	05:03:45	-10.8
05/05/14	04:06:45	6.8	05/05/14	09:06:45	4.5	05/05/14	14:06:45	4.7	05/05/14	19:06:45	5.6	05/06/14	00:06:45	5.1	05/06/14	05:06:45	-11.2
05/05/14	04:09:45	6.3	05/05/14	09:09:45	4.5	05/05/14	14:09:45	5.0	05/05/14	19:09:45	5.9	05/06/14	00:09:45	5.3	05/06/14	05:09:45	-11.6
05/05/14	04:12:45	5.9	05/05/14	09:12:45	4.6	05/05/14	14:12:45	5.2	05/05/14	19:12:45	6.1	05/06/14	00:12:45	5.6	05/06/14	05:12:45	-12.0
05/05/14	04:15:45	5.4	05/05/14	09:15:45	4.8	05/05/14	14:15:45	5.5	05/05/14	19:15:45	6.3	05/06/14	00:15:45	5.8	05/06/14	05:15:45	-12.3
05/05/14	04:18:45	5.0	05/05/14	09:18:45	5.0	05/05/14	14:18:45	5.8	05/05/14	19:18:45	6.5	05/06/14	00:18:45	6.1	05/06/14	05:18:45	-12.6
05/05/14	04:21:45	4.7	05/05/14	09:21:45	5.2	05/05/14	14:21:45	6.0	05/05/14	19:21:45	6.7	05/06/14	00:21:45	6.4	05/06/14	05:21:45	-12.8
05/05/14	04:24:45	4.4	05/05/14	09:24:45	5.5	05/05/14	14:24:45	6.2	05/05/14	19:24:45	6.8	05/06/14	00:24:45	6.6	05/06/14	05:24:45	-12.8
05/05/14	04:27:45	4.3	05/05/14	09:27:45	5.8	05/05/14	14:27:45	6.4	05/05/14	19:27:45	6.6	05/06/14	00:27:45	6.8	05/06/14	05:27:45	-12.7
05/05/14	04:30:45	4.4	05/05/14	09:30:45	6.1	05/05/14	14:30:45	6.7	05/05/14	19:30:45	6.2	05/06/14	00:30:45	6.8	05/06/14	05:30:45	-12.6
05/05/14	04:33:45	4.6	05/05/14	09:33:45	6.3	05/05/14	14:33:45	6.8	05/05/14	19:33:45	5.7	05/06/14	00:33:45	6.4	05/06/14	05:33:45	-12.4
05/05/14	04:36:45	4.9	05/05/14	09:36:45	6.5	05/05/14	14:36:45	6.7	05/05/14	19:36:45	5.3	05/06/14	00:36:45	5.9	05/06/14	05:36:45	-12.1
05/05/14	04:39:45	5.1	05/05/14	09:39:45	6.8	05/05/14	14:39:45	6.3	05/05/14	19:39:45	4.9	05/06/14	00:39:45	5.4	05/06/14	05:39:45	-11.8
05/05/14	04:42:45	5.4	05/05/14	09:42:45	6.8	05/05/14	14:42:45	5.8	05/05/14	19:42:45	4.6	05/06/14	00:42:45	5.0	05/06/14	05:42:45	-11.5
05/05/14	04:45:45	5.7	05/05/14	09:45:45	6.7	05/05/14	14:45:45	5.4	05/05/14	19:45:45	4.5	05/06/14	00:45:45	4.7	05/06/14	05:45:45	-11.1
05/05/14	04:48:45	5.9	05/05/14	09:48:45	6.2	05/05/14	14:48:45	5.0	05/05/14	19:48:45	4.5	05/06/14	00:48:45	4.3	05/06/14	05:48:45	-10.8
05/05/14	04:51:45	6.2	05/05/14	09:51:45	5.8	05/05/14	14:51:45	4.8	05/05/14	19:51:45	4.6	05/06/14	00:51:45	4.0	05/06/14	05:51:45	-10.4
05/05/14	04:54:45	6.4	05/05/14	09:54:45	5.3	05/05/14	14:54:45	4.6	05/05/14	19:54:45	4.8	05/06/14	00:54:45	3.7	05/06/14	05:54:45	-9.9
05/05/14	04:57:45	6.6	05/05/14	09:57:45	5.0	05/05/14	14:57:45	4.6	05/05/14	19:57:45	5.0	05/06/14	00:57:45	3.5	05/06/14	05:57:45	-9.6
05/05/14	05:00:45	6.4	05/05/14	10:00:45	4.7	05/05/14	15:00:45	4.7	05/05/14	20:00:45	5.2	05/06/14	01:00:45	3.4	05/06/14	06:00:45	-9.4
05/05/14	05:03:45	6.0	05/05/14	10:03:45	4.6	05/05/14	15:03:45	4.8	05/05/14	20:03:45	5.5	05/06/14	01:03:45	3.4	05/06/14	06:03:45	-9.5
05/05/14	05:06:45	5.5	05/05/14	10:06:45	4.6	05/05/14	15:06:45	5.0	05/05/14	20:06:45	5.8	05/06/14	01:06:45	3.5	05/06/14	06:06:45	-9.9
05/05/14	05:09:45	5.1	05/05/14	10:09:45	4.8	05/05/14	15:09:45	5.2	05/05/14	20:09:45	6.0	05/06/14	01:09:45	3.7	05/06/14	06:09:45	-10.4
05/05/14	05:12:45	4.8	05/05/14	10:12:45	5.0	05/05/14	15:12:45	5.5	05/05/14	20:12:45	6.3	05/06/14	01:12:45	4.0	05/06/14	06:12:45	-10.8
05/05/14	05:15:45	4.5	05/05/14	10:15:45	5.2	05/05/14	15:15:45	5.8	05/05/14	20:15:45	6.5	05/06/14	01:15:45	4.2	05/06/14	06:15:45	-11.2
05/05/14	05:18:45	4.3	05/05/14	10:18:45	5.4	05/05/14	15:18:45	6.0	05/05/14	20:18:45	6.8	05/06/14	01:18:45	4.5	05/06/14	06:18:45	-11.6
05/05/14	05:21:45	4.3	05/05/14	10:21:45	5.7	05/05/14	15:21:45	6.2	05/05/14	20:21:45	6.8	05/06/14	01:21:45	4.8	05/06/14	06:21:45	-12.0
05/05/14	05:24:45	4.4	05/05/14	10:24:45	5.9	05/05/14	15:24:45	6.5	05/05/14	20:24:45	6.6	05/06/14	01:24:45	5.0	05/06/14	06:24:45	-12.4
05/05/14	05:27:45	4.6	05/05/14	10:27:45	6.1	05/05/14	15:27:45	6.8	05/05/14	20:27:45	6.2	05/06/14	01:27:45	5.2	05/06/14	06:27:45	-12.6
05/05/14	05:30:45	4.9	05/05/14	10:30:45	6.3	05/05/14	15:30:45	6.8	05/05/14	20:30:45	5.7	05/06/14	01:30:45	5.5	05/06/14	06:30:45	-12.7
05/05/14	05:33:45	5.1	05/05/14	10:33:45	6.6	05/05/14	15:33:45	6.8	05/05/14	20:33:45	5.2	05/06/14	01:33:45	5.8	05/06/14	06:33:45	-12.7
05/05/14	05:36:45	5.3	05/05/14	10:36:45	7.3	05/05/14	15:36:45	6.7	05/05/14	20:36:45	4.9	05/06/14	01:36:45	5.9	05/06/14	06:36:45	-12.7
05/05/14	05:39:45	5.6	05/05/14	10:39:45	7.2	05/05/14	15:39:45	6.7	05/05/14	20:39:45	4.6	05/06/14	01:39:45	5.8	05/06/14	06:39:45	-12.5
05/05/14	05:42:45	5.8	05/05/14	10:42:45	6.8	05/05/14	15:42:45	6.8	05/05/14	20:42:45	4.5	05/06/14	01:42:45	5.4	05/06/14	06:42:45	-12.2
05/05/14	05:45:45	6.0	05/05/14	10:45:45	6.4	05/05/14	15:45:45	6.9	05/05/14	20:45:45	4.6	05/06/14	01:45:45	5.0	05/06/14	06:45:45	-12.0
05/05/14	05:48:45	6.2	05/05/14	10:48:45	5.9	05/05/14	15:48:45	6.9	05/05/14	20:48:45	4.8	05/06/14	01:48:45	4.6	05/06/14	06:48:45	-11.7
05/05/14	05:51:45	6.5	05/05/14	10:51:45	5.5	05/05/14	15:51:45	6.7	05/05/14	20:51:45	5.0	05/06/14	01:51:45	4.2	05/06/14	06:51:45	-11.4
05/05/14	05:54:45	6.6	05/05/14	10:54:45	5.1	05/05/14	15:54:45	6.3	05/05/14	20:54:45	5.2	05/06/14	01:54:45	3.8	05/06/14	06:54:45	-11.0
05/05/14	05:57:45	6.3	05/05/14	10:57:45	4.8	05/05/14	15:57:45	5.8	05/05/14	20:57:45	5.4	05/06/14	01:57:45	3.5	05/06/14	06:57:45	-10.6
05/05/14	06:00:45	5.9	05/05/14	11:00:45	4.6	05/05/14	16:00:45	5.4	05/05/14	21:00:45	5.6	05/06/14	02:00:45	3.5	05/06/14	07:00:45	-10.2
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05/05/14	06:06:45	5.0	05/05/14	11:06:45	4.7	05/05/14	16:06:45	4.8	05/05/14	21:06:45	6.1	05/06/14	02:06:45	3.7	05/06/14	07:06:45	-9.5
05/05/14	06:09:45	4.7	05/05/14	11:09:45	4.9	05/05/14	16:09:45	4.5	05/05/14	21:09:45	6.3	05/06/14	02:09:45	3.9	05/06/14	07:09:45	-9.5
05/05/14	06:12:45	4.4	05/05/14	11:12:45	5.2	05/05/14	16:12:45	4.4	05/05/14	21:12:45	6.5	05/06/14	02:12:45	4.2	05/06/14	07:12:45	-9.8
05/05/14	06:15:45	4.3	05/05/14	11:15:45	5.4	05/05/14	16:15:45	4.4	05/05/14	21:15:45	6.8	05/06/14	02:15:45	4.5	05/06/14	07:15:45	-10.1
05/05/14	06:18:45	4.3	05/05/14	11:18:45	5.7	05/05/14	16:18:45	4.5	05/05/14	21:18:45	6.8	05/06/14	02:18:45	4.7	05/06/14	07:18:45	-10.6
05/05/14	06:21:45	4.5	05/05/14	11:21:45	6.0	05/05/14	16:21:45	4.8	05/05/14	21:21:45	6.5	05/06/14	02:21:45	5.0	05/06/14	07:21:45	-11.0
05/05/14	06:24:45	4.8	05/05/14	11:24:45	6.2	05/05/14	16:24:45	5.0	05/05/14	21:24:45	6.1	05/06/14	02:24:45	5.1	05/06/14	07:24:45	-11.4
05/05/14	06:27:45	5.0	05/05/14	11:27:45	6.4	05/05/14	16:27:45	5.2	05/05/14	21:27:45	5.6	05/06/14	02:27:45	5.3	05/06/14	07:27:45	-11.8
05/05/14	06:30:45	5.3	05/05/14	11:3													

Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C
05/06/14	09:36:45	-11.1	05/06/14	14:36:45	-12.7	05/06/14	19:36:45	-10.4	05/07/14	00:36:45	-10.9	05/07/14	05:36:45	5.5	05/07/14	10:36:45	5.1
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05/06/14	09:42:45	-11.8	05/06/14	14:42:45	-12.2	05/06/14	19:42:45	-9.7	05/07/14	00:42:45	-11.8	05/07/14	05:42:45	4.9	05/07/14	10:42:45	4.8
05/06/14	09:45:45	-12.2	05/06/14	14:45:45	-11.8	05/06/14	19:45:45	-9.6	05/07/14	00:45:45	-12.2	05/07/14	05:45:45	4.5	05/07/14	10:45:45	4.7
05/06/14	09:48:45	-12.4	05/06/14	14:48:45	-11.5	05/06/14	19:48:45	-9.8	05/07/14	00:48:45	-12.5	05/07/14	05:48:45	4.2	05/07/14	10:48:45	4.5
05/06/14	09:51:45	-12.7	05/06/14	14:51:45	-11.2	05/06/14	19:51:45	-10.2	05/07/14	00:51:45	-12.8	05/07/14	05:51:45	4.0	05/07/14	10:51:45	4.4
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05/06/14	10:00:45	-12.6	05/06/14	15:00:45	-10.1	05/06/14	20:00:45	-11.6	05/07/14	01:00:45	-13.0	05/07/14	06:00:45	4.0	05/07/14	11:00:45	3.9
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05/06/14	10:30:45	-9.5	05/06/14	15:30:45	-12.6	05/06/14	20:30:45	-12.2	05/07/14	01:30:45	-10.0	05/07/14	06:30:45	5.2	05/07/14	11:30:45	5.0
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05/06/14	10:36:45	-10.0	05/06/14	15:36:45	-13.0	05/06/14	20:36:45	-11.6	05/07/14	01:36:45	-9.7	05/07/14	06:36:45	4.6	05/07/14	11:36:45	4.7
05/06/14	10:39:45	-10.5	05/06/14	15:39:45	-13.0	05/06/14	20:39:45	-11.2	05/07/14	01:39:45	-9.9	05/07/14	06:39:45	4.3	05/07/14	11:39:45	4.5
05/06/14	10:42:45	-10.9	05/06/14	15:42:45	-12.9	05/06/14	20:42:45	-10.9	05/07/14	01:42:45	-10.3	05/07/14	06:42:45	4.1	05/07/14	11:42:45	4.3
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05/06/14	10:48:45	-11.8	05/06/14	15:48:45	-12.5	05/06/14	20:48:45	-10.2	05/07/14	01:48:45	-0.1	05/07/14	06:48:45	3.9	05/07/14	11:48:45	4.0
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05/06/14	11:00:45	-12.8	05/06/14	16:00:45	-11.2	05/06/14	21:00:45	-10.1	05/07/14	02:00:45	3.5	05/07/14	07:00:45	4.5	05/07/14	12:00:45	4.4
05/06/14	11:03:45	-12.8	05/06/14	16:03:45	-10.9	05/06/14	21:03:45	-10.5	05/07/14	02:03:45	3.9	05/07/14	07:03:45	4.7	05/07/14	12:03:45	4.6
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05/06/14	11:09:45	-12.5	05/06/14	16:09:45	-10.1	05/06/14	21:09:45	-11.4	05/07/14	02:09:45	4.6	05/07/14	07:09:45	5.1	05/07/14	12:09:45	5.0
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05/06/14	11:15:45	-12.1	05/06/14	16:15:45	-9.6	05/06/14	21:15:45	-12.2	05/07/14	02:15:45	5.2	05/07/14	07:15:45	5.6	05/07/14	12:15:45	5.1
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05/06/14	11:42:45	-9.8	05/06/14	16:42:45	-12.8	05/06/14	21:42:45	-12.1	05/07/14	02:42:45	3.2	05/07/14	07:42:45	4.0	05/07/14	12:42:45	3.9
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05/06/14	11:51:45	-11.1	05/06/14	16:51:45	-12.9	05/06/14	21:51:45	-11.1	05/07/14	02:51:45	2.7	05/07/14	07:51:45	4.7	05/07/14	12:51:45	4.1
05/06/14	11:54:45	-11.5	05/06/14	16:54:45	-12.7	05/06/14	21:54:45	-10.7	05/07/14	02:54:45	2.8	05/07/14	07:54:45	4.9	05/07/14	12:54:45	4.5
05/06/14	11:57:45	-11.9	05/06/14	16:57:45	-12.5	05/06/14	21:57:45	-10.4	05/07/14	02:57:45	3.0	05/07/14	07:57:45	5.0	05/07/14	12:57:45	4.7
05/06/14	12:00:45	-12.2	05/06/14	17:00:45	-12.3	05/06/14	22:00:45	-9.9	05/07/14	03:00:45	3.2	05/07/14	08:00:45	5.3	05/07/14	13:00:45	5.0
05/06/14	12:03:45	-12.5	05/06/14	17:03:45	-12.0	05/06/14	22:03:45	-9.7	05/07/14	03:03:45	3.5	05/07/14	08:03:45	5.4	05/07/14	13:03:45	5.2
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05/06/14	12:21:45	-12.4	05/06/14	17:21:45	-9.9	05/06/14	22:21:45	-11.8	05/07/14	03:21:45	4.9	05/07/14	08:21:45	5.3	05/07/14	13:21:45	4.4
05/06/14	12:24:45	-12.1	05/06/14	17:24:45	-9.7	05/06/14	22:24:45	-12.1	05/07/14	03:24:45	5.0	05/07/14	08:24:45	5.1	05/07/14	13:24:45	4.2
05/06/14	12:27:45	-11.8	05/06/14	17:27:45	-9.7	05/06/14	22:27:45	-12.5	05/07/14	03:27:45	5.3	05/					

Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C	Date	Time	°C
05/07/14	15:36:45	4.3	05/07/14	20:36:45	5.3	05/08/14	01:36:45	4.8	05/08/14	06:36:45	3.3						
05/07/14	15:39:45	4.5	05/07/14	20:39:45	5.4	05/08/14	01:39:45	4.6	05/08/14	06:39:45	3.5						
05/07/14	15:42:45	4.8	05/07/14	20:42:45	5.4	05/08/14	01:42:45	5.1	05/08/14	06:42:45	3.7						
05/07/14	15:45:45	5.0	05/07/14	20:45:45	5.2	05/08/14	01:45:45	5.2	05/08/14	06:45:45	3.9						
05/07/14	15:48:45	5.2	05/07/14	20:48:45	5.0	05/08/14	01:48:45	4.9	05/08/14	06:48:45	4.2						
05/07/14	15:51:45	5.3	05/07/14	20:51:45	4.9	05/08/14	01:51:45	4.6	05/08/14	06:51:45	4.5						
05/07/14	15:54:45	5.4	05/07/14	20:54:45	4.6	05/08/14	01:54:45	4.4	05/08/14	06:54:45	4.7						
05/07/14	15:57:45	5.3	05/07/14	20:57:45	4.4	05/08/14	01:57:45	4.1	05/08/14	06:57:45	5.0						
05/07/14	16:00:45	5.1	05/07/14	21:00:45	4.2	05/08/14	02:00:45	4.1	05/08/14	07:00:45	5.2						
05/07/14	16:03:45	5.0	05/07/14	21:03:45	4.0	05/08/14	02:03:45	4.1	05/08/14	07:03:45	5.3						
05/07/14	16:06:45	4.8	05/07/14	21:06:45	3.8	05/08/14	02:06:45	4.3	05/08/14	07:06:45	5.2						
05/07/14	16:09:45	4.6	05/07/14	21:09:45	3.7	05/08/14	02:09:45	4.5	05/08/14	07:09:45	5.0						
05/07/14	16:12:45	4.4	05/07/14	21:12:45	3.8	05/08/14	02:12:45	4.8	05/08/14	07:12:45	4.8						
05/07/14	16:15:45	4.1	05/07/14	21:15:45	3.9	05/08/14	02:15:45	5.0	05/08/14	07:15:45	4.6						
05/07/14	16:18:45	3.9	05/07/14	21:18:45	4.1	05/08/14	02:18:45	5.0	05/08/14	07:18:45	4.4						
05/07/14	16:21:45	3.8	05/07/14	21:21:45	4.3	05/08/14	02:21:45	5.0	05/08/14	07:21:45	4.2						
05/07/14	16:24:45	3.7	05/07/14	21:24:45	4.6	05/08/14	02:24:45	4.8	05/08/14	07:24:45	4.0						
05/07/14	16:27:45	3.8	05/07/14	21:27:45	4.8	05/08/14	02:27:45	4.6	05/08/14	07:27:45	3.8						
05/07/14	16:30:45	3.9	05/07/14	21:30:45	5.0	05/08/14	02:30:45	4.4	05/08/14	07:30:45	3.7						
05/07/14	16:33:45	4.1	05/07/14	21:33:45	5.3	05/08/14	02:33:45	4.2	05/08/14	07:33:45	3.7						
05/07/14	16:36:45	4.3	05/07/14	21:36:45	5.5	05/08/14	02:36:45	4.0	05/08/14	07:36:45	3.8						
05/07/14	16:39:45	4.6	05/07/14	21:39:45	5.5	05/08/14	02:39:45	3.8	05/08/14	07:39:45	4.0						
05/07/14	16:42:45	4.9	05/07/14	21:42:45	5.4	05/08/14	02:42:45	3.8	05/08/14	07:42:45	4.3						
05/07/14	16:45:45	5.1	05/07/14	21:45:45	5.1	05/08/14	02:45:45	3.9	05/08/14	07:45:45	4.5						
05/07/14	16:48:45	5.3	05/07/14	21:48:45	5.0	05/08/14	02:48:45	4.0	05/08/14	07:48:45	4.8						
05/07/14	16:51:45	5.5	05/07/14	21:51:45	5.0	05/08/14	02:51:45	4.3	05/08/14	07:51:45	5.0						
05/07/14	16:54:45	5.5	05/07/14	21:54:45	5.1	05/08/14	02:54:45	4.5	05/08/14	07:54:45	5.1						
05/07/14	16:57:45	5.3	05/07/14	21:57:45	5.3	05/08/14	02:57:45	4.8	05/08/14	07:57:45	5.4						
05/07/14	17:00:45	5.1	05/07/14	22:00:45	5.4	05/08/14	03:00:45	5.0	05/08/14	08:00:45	5.5						
05/07/14	17:03:45	4.9	05/07/14	22:03:45	5.5	05/08/14	03:03:45	5.1	05/08/14	08:03:45	5.5						
05/07/14	17:06:45	4.6	05/07/14	22:06:45	5.4	05/08/14	03:06:45	5.1	05/08/14	08:06:45	5.4						
05/07/14	17:09:45	4.4	05/07/14	22:09:45	5.2	05/08/14	03:09:45	5.0	05/08/14	08:09:45	5.2						
05/07/14	17:12:45	4.2	05/07/14	22:12:45	5.0	05/08/14	03:12:45	4.8	05/08/14	08:12:45	5.0						
05/07/14	17:15:45	4.0	05/07/14	22:15:45	4.8	05/08/14	03:15:45	4.6	05/08/14	08:15:45	4.8						
05/07/14	17:18:45	3.8	05/07/14	22:18:45	4.5	05/08/14	03:18:45	4.4	05/08/14	08:18:45	4.6						
05/07/14	17:21:45	3.8	05/07/14	22:21:45	4.3	05/08/14	03:21:45	4.2	05/08/14	08:21:45	4.4						
05/07/14	17:24:45	3.9	05/07/14	22:24:45	4.0	05/08/14	03:24:45	4.1	05/08/14	08:24:45	4.2						
05/07/14	17:27:45	4.0	05/07/14	22:27:45	3.8	05/08/14	03:27:45	3.9	05/08/14	08:27:45	4.0						
05/07/14	17:30:45	4.2	05/07/14	22:30:45	3.7	05/08/14	03:30:45	5.5	05/08/14	08:30:45	3.9						
05/07/14	17:33:45	4.4	05/07/14	22:33:45	3.7	05/08/14	03:33:45	6.1	05/08/14	08:33:45	3.9						
05/07/14	17:36:45	4.6	05/07/14	22:36:45	3.8	05/08/14	03:36:45	6.2	05/08/14	08:36:45	4.0						
05/07/14	17:39:45	4.8	05/07/14	22:39:45	4.0	05/08/14	03:39:45	6.3	05/08/14	08:39:45	4.2						
05/07/14	17:42:45	5.0	05/07/14	22:42:45	4.3	05/08/14	03:42:45	6.4	05/08/14	08:42:45	4.4						
05/07/14	17:45:45	5.2	05/07/14	22:45:45	4.5	05/08/14	03:45:45	6.3	05/08/14	08:45:45	4.7						
05/07/14	17:48:45	5.4	05/07/14	22:48:45	4.7	05/08/14	03:48:45	6.1	05/08/14	08:48:45	5.0						
05/07/14	17:51:45	5.4	05/07/14	22:51:45	4.9	05/08/14	03:51:45	5.9	05/08/14	08:51:45	5.2						
05/07/14	17:54:45	5.3	05/07/14	22:54:45	5.1	05/08/14	03:54:45	5.6	05/08/14	08:54:45	5.4						
05/07/14	17:57:45	5.1	05/07/14	22:57:45	5.3	05/08/14	03:57:45	5.3	05/08/14	08:57:45	5.6						
05/07/14	18:00:45	5.0	05/07/14	23:00:45	5.4	05/08/14	04:00:45	5.1	05/08/14	09:00:45	5.8						
05/07/14	18:03:45	4.7	05/07/14	23:03:45	5.4	05/08/14	04:03:45	5.0	05/08/14	09:03:45	5.6						
05/07/14	18:06:45	4.5	05/07/14	23:06:45	5.3	05/08/14	04:06:45	5.9	05/08/14	09:06:45	5.4						
05/07/14	18:09:45	4.3	05/07/14	23:09:45	5.0	05/08/14	04:09:45	6.4	05/08/14	09:09:45	11.7						
05/07/14	18:12:45	4.0	05/07/14	23:12:45	4.9	05/08/14	04:12:45	6.2									
05/07/14	18:15:45	3.8	05/07/14	23:15:45	4.7	05/08/14	04:15:45	6.0									
05/07/14	18:18:45	3.7	05/07/14	23:18:45	4.5	05/08/14	04:18:45	6.0									
05/07/14	18:21:45	3.8	05/07/14	23:21:45	4.2	05/08/14	04:21:45	6.0									
05/07/14	18:24:45	3.9	05/07/14	23:24:45	4.0	05/08/14	04:24:45	6.2									
05/07/14	18:27:45	4.1	05/07/14	23:27:45	3.8	05/08/14	04:27:45	6.3									
05/07/14	18:30:45	4.4	05/07/14	23:30:45	3.7	05/08/14	04:30:45	6.4									
05/07/14	18:33:45	4.6	05/07/14	23:33:45	3.8	05/08/14	04:33:45	6.3									
05/07/14	18:36:45	4.9	05/07/14	23:36:45	3.9	05/08/14	04:36:45	6.1									
05/07/14	18:39:45	5.0	05/07/14	23:39:45	4.1	05/08/14	04:39:45	5.9									
05/07/14	18:42:45	5.3	05/07/14	23:42:45	4.3	05/08/14	04:42:45	5.7									
05/07/14	18:45:45	5.4	05/07/14	23:45:45	4.5	05/08/14	04:45:45	5.5									
05/07/14	18:48:45	5.4	05/07/14	23:48:45	4.8	05/08/14	04:48:45	5.3									
05/07/14	18:51:45	5.3	05/07/14	23:51:45	5.0	05/08/14	04:51:45	5.1									
05/07/14	18:54:45	5.0	05/07/14	23:54:45	5.2	05/08/14	04:54:45	4.9									
05/07/14	18:57:45	4.8	05/07/14	23:57:45	5.4	05/08/14	04:57:45	4.7									
05/07/14	19:00:45	4.6	05/08/14	00:00:45	5.5	05/08/14	05:00:45	4.6									
05/07/14	19:03:45	4.4	05/08/14	00:03:45	5.4	05/08/14	05:03:45	4.7									
05/07/14	19:06:45	4.2	05/08/14	00:06:45	5.2	05/08/14	05:06:45	4.8									
05/07/14	19:09:45	4.0	05/08/14	00:09:45	4.9	05/08/14	05:09:45	5.0									
05/07/14	19:12:45	3.8	05/08/14	00:12:45	4.7	05/08/14	05:12:45	5.2									
05/07/14	19:15:45	3.8	05/08/14	00:15:45	4.5	05/08/14	05:15:45	5.4									
05/07/14	19:18:45	3.8	05/08/14	00:18:45	4.2	05/08/14	05:18:45	5.3									
05/07/14	19:21:45	4.0	05/08/14	00:21:45	4.0	05/08/14	05:21:45	5.2									
05/07/14	19:24:45	4.1	05/08/14	00:24:45	3.9	05/08/14	05:24:45	5.0									
05/07/14	19:27:45	4.4	05/08/14	00:27:45	4.												