Nonlinear Regression

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Load appropriate library packages to run and view nonlinear regression code.

library(nls.multstart)

## Warning: package 'nls.multstart' was built under R version 4.3.1

library(minpack.lm)

## Warning: package 'minpack.lm' was built under R version 4.3.1

library(ggplot2)  
library(dplyr)

## Warning: package 'dplyr' was built under R version 4.3.1

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(mgcv)

## Loading required package: nlme

##   
## Attaching package: 'nlme'

## The following object is masked from 'package:dplyr':  
##   
## collapse

## This is mgcv 1.8-42. For overview type 'help("mgcv-package")'.

## Introduction for Running and Heart Rate Data

The dataset, sourced from Kaggle (<https://www.kaggle.com/datasets/mcandocia/running-heart-rate-recovery/data>) and curated by Max Candocia, provides a detailed record of Max’s running activities over approximately two years. It includes heart rate, total running time, altitude, distance, speed, and temperature, etc. The longitudinal, within-subjects design, where each row - event ID - corresponds to a specific instance of stopping and restarting Max’s watch, suggests potential non-linearities in the data.

The within-subjects, longitudinal approach is ideal for capturing changes over time within the same individual, making it well-suited for exploring patterns and potential nonlinear relationships in Max Candocia’s running experiences across different running sessions.

To investigate nonlinearity, the suggested approach involves utilizing nonlinear regression models, such as exponential and exponential spline regression, designed for capturing complex and characterizing the nonlinear relationships between variables, particularly between heart rate and time elapsed. The goal is to discover and explain potential nonlinear trends within his performance.

Load and view the “s1\_laps\_summary.csv” data file to get an initial look at the data collected.

## event\_id timestamp heart\_rate time\_elapsed total\_running\_time  
## 1 1 2017-09-21T21:25:38Z 143 486 436  
## 2 1 2017-09-21T21:32:15Z 154 883 833  
## 3 1 2017-09-21T21:39:29Z 156 1317 1267  
## 4 2 2017-09-22T17:37:07Z 143 460 448  
## 5 2 2017-09-22T17:44:18Z 155 891 879  
## 6 2 2017-09-22T17:51:42Z 158 1335 1323  
## 7 3 2017-09-23T14:04:49Z 139 424 424  
## 8 3 2017-09-23T14:09:14Z 151 689 572  
## 9 3 2017-09-23T14:11:44Z 154 839 720  
## 10 3 2017-09-23T14:14:22Z 156 997 878  
## 11 3 2017-09-23T14:17:05Z 158 1160 1041  
## 12 3 2017-09-23T14:19:44Z 160 1319 1200  
## 13 3 2017-09-23T14:22:23Z 160 1478 1359  
## 14 3 2017-09-23T14:24:53Z 163 1628 1509  
## 15 3 2017-09-23T14:27:32Z 163 1787 1668  
## 16 3 2017-09-23T14:30:13Z 163 1948 1829  
## 17 3 2017-09-23T14:32:46Z 164 2101 1982  
## 18 3 2017-09-23T14:44:41Z 95 2816 1985  
## 19 3 2017-09-23T14:46:54Z 154 2949 2118  
## 20 3 2017-09-23T14:49:17Z 158 3092 2261  
## 21 3 2017-09-23T14:51:45Z 160 3240 2409  
## 22 3 2017-09-23T14:54:10Z 162 3385 2554  
## 23 3 2017-09-23T14:56:34Z 164 3529 2698  
## 24 3 2017-09-23T14:58:54Z 167 3669 2838  
## 25 3 2017-09-23T15:01:13Z 165 3808 2977  
## 26 3 2017-09-23T15:03:32Z 169 3947 3116  
## 27 3 2017-09-23T15:05:50Z 171 4085 3254  
## 28 3 2017-09-23T15:07:34Z 177 4189 3358  
## 29 3 2017-09-23T15:15:42Z 102 4677 3361  
## 30 4 2017-09-24T15:43:13Z 138 504 456  
## 31 4 2017-09-24T15:50:23Z 147 934 886  
## 32 4 2017-09-24T15:57:35Z 153 1366 1318  
## 33 4 2017-09-24T16:05:06Z 160 1817 1769  
## 34 4 2017-09-24T16:12:49Z 159 2280 2232  
## 35 4 2017-09-24T16:22:47Z 141 2878 2700  
## 36 4 2017-09-24T16:31:50Z 147 3421 3172  
## 37 4 2017-09-24T16:39:36Z 148 3887 3638  
## 38 4 2017-09-24T16:47:41Z 146 4372 4121  
## 39 4 2017-09-24T16:55:40Z 148 4851 4600  
## 40 5 2017-09-25T23:47:33Z 153 497 467  
## 41 5 2017-09-25T23:54:43Z 156 927 897  
## 42 5 2017-09-26T00:01:39Z 164 1343 1313  
## 43 6 2017-09-27T23:54:36Z 156 373 348  
## 44 6 2017-09-28T00:11:10Z 129 1367 660  
## 45 6 2017-09-28T00:14:20Z 81 1557 661  
## 46 6 2017-09-28T00:18:16Z 167 1793 897  
## 47 6 2017-09-28T00:25:21Z 165 2218 1145  
## 48 6 2017-09-28T00:32:27Z 173 2644 1394  
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## 55 7 2017-09-29T23:36:13Z 156 411 411  
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## 359 6 lap stop 164 167  
## 360 0 lap stop 165 169  
## 361 3 lap stop 164 168  
## 362 0 lap stop 166 170  
## 363 90 lap stop 133 151  
## 364 63 lap stop 145 152  
## 365 135 lap stop 148 164  
## 366 90 lap stop 153 160  
## 367 26 lap stop 144 161  
## 368 39 lap stop 144 158  
## 369 28 lap stop 143 149  
## 370 143 lap stop 146 154  
## 371 64 lap stop 147 151  
## 372 70 lap stop 149 154  
## 373 58 lap stop 156 162  
## 374 46 lap stop 160 165  
## 375 59 lap stop 152 162  
## 376 50 lap stop 156 163  
## 377 70 lap stop 158 171  
## 378 59 lap stop 152 160  
## 379 54 lap stop 149 155  
## 380 34 lap stop 153 159  
## 381 0 lap stop 138 157  
## 382 3 lap stop 159 169  
## 383 17 lap stop 162 167  
## 384 5 lap stop 168 172  
## 385 6 lap stop 163 172  
## 386 0 lap stop 164 168  
## 387 12 lap stop 163 167  
## 388 0 lap stop 165 169  
## 389 14 lap stop 163 168  
## 390 2 lap stop 166 169  
## 391 12 lap stop 164 170  
## 392 5 lap stop 168 172  
## 393 31 lap stop 158 171  
## 394 46 lap stop 157 170  
## 395 42 lap stop 142 159  
## 396 11 lap stop 159 172  
## 397 3 lap stop 160 171  
## 398 9 lap stop 167 170  
## 399 7 lap stop 161 168  
## 400 11 lap stop 168 173  
## 401 0 lap stop 162 173  
## 402 4 lap stop 169 174  
## 403 6 lap stop 163 173  
## 404 18 lap stop 169 173  
## 405 2 lap stop 161 170  
## 406 23 lap stop 169 172  
## 407 0 lap stop 140 172  
## 408 24 lap stop 144 159  
## 409 57 lap stop 147 155  
## 410 133 lap stop 147 155  
## 411 205 lap stop 162 190  
## 412 24 lap stop 145 159  
## 413 77 lap stop 138 150  
## 414 33 lap stop 140 147  
## 415 80 lap stop 152 165  
## 416 41 lap stop 141 162  
## 417 43 lap stop 142 149  
## 418 48 lap stop 145 153  
## 419 34 lap stop 153 157  
## 420 28 lap stop 151 158  
## 421 134 lap stop 151 167  
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## 427 30 lap stop 169 171  
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## 430 52 lap stop 153 180  
## 431 39 lap stop 141 155  
## 432 0 lap stop 152 154  
## 433 23 lap stop 162 176  
## 434 31 lap stop 163 178  
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## 436 0 lap stop 138 155  
## 437 51 lap stop 159 178  
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## 441 93 lap stop 148 159  
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## 445 0 lap stop 152 174  
## 446 2 lap stop 166 172  
## 447 6 lap stop 171 175  
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## 449 11 lap stop 170 173  
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## 451 11 lap stop 167 172  
## 452 0 lap stop 163 171  
## 453 6 lap stop 166 172  
## 454 0 lap stop 163 170  
## 455 0 lap stop 166 173  
## 456 3 lap stop 166 173  
## 457 10 lap stop 168 174  
## 458 0 lap stop 165 169  
## 459 6 lap stop 167 170  
## 460 2 lap stop 165 169  
## 461 7 lap stop 166 170  
## 462 14 lap stop 164 170  
## 463 6 lap stop 166 171  
## 464 0 lap stop 166 172  
## 465 6 lap stop 167 171  
## 466 0 lap stop 163 171  
## 467 5 lap stop 167 173  
## avg\_running\_cadence max\_running\_cadence lap\_trigger sub\_sport  
## 1 80 84 distance generic  
## 2 80 85 distance generic  
## 3 80 84 distance generic  
## 4 81 88 distance generic  
## 5 81 84 distance generic  
## 6 81 83 distance generic  
## 7 82 85 manual generic  
## 8 83 88 manual generic  
## 9 82 87 manual generic  
## 10 82 87 manual generic  
## 11 83 89 manual generic  
## 12 82 86 manual generic  
## 13 82 87 manual generic  
## 14 82 86 manual generic  
## 15 81 85 manual generic  
## 16 81 86 manual generic  
## 17 82 86 manual generic  
## 18 82 82 manual generic  
## 19 83 87 manual generic  
## 20 82 86 manual generic  
## 21 82 87 manual generic  
## 22 83 86 manual generic  
## 23 82 87 manual generic  
## 24 83 89 manual generic  
## 25 83 89 manual generic  
## 26 82 86 manual generic  
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## 28 86 93 manual generic  
## 29 84 85 manual generic  
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## 31 81 83 distance generic  
## 32 80 82 distance generic  
## 33 80 82 distance generic  
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## 35 82 86 distance generic  
## 36 82 85 distance generic  
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## 44 80 117 manual generic  
## 45 59 59 manual generic  
## 46 86 97 manual generic  
## 47 84 87 manual generic  
## 48 83 87 manual generic  
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## 53 82 87 manual generic  
## 54 81 87 manual generic  
## 55 80 83 manual generic  
## 56 81 83 manual generic  
## 57 81 83 manual generic  
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## 59 81 84 distance generic  
## 60 82 86 distance generic  
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## 62 82 84 distance generic  
## 63 81 83 distance generic  
## 64 83 112 distance generic  
## 65 82 86 distance generic  
## 66 83 96 distance generic  
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## 129 79 90 manual generic  
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## 131 89 90 manual generic  
## 132 94 95 manual generic  
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## 135 82 84 manual generic  
## 136 90 109 manual generic  
## 137 84 109 manual generic  
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## 141 82 84 manual generic  
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## 143 81 86 manual generic  
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## 193 82 86 distance generic  
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## 251 83 85 manual generic  
## 252 70 85 manual generic  
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## 461 81 83 manual generic  
## 462 78 83 manual generic  
## 463 82 84 manual generic  
## 464 78 84 manual generic  
## 465 82 84 manual generic  
## 466 79 85 manual generic  
## 467 84 89 manual generic  
## avg\_fractional\_cadence max\_fractional\_cadence total\_fractional\_cycles  
## 1 0.5703125 0.0 NA  
## 2 0.9609375 0.5 NA  
## 3 0.7187500 0.5 NA  
## 4 0.5390625 0.5 NA  
## 5 0.5390625 0.5 NA  
## 6 0.2890625 0.5 NA  
## 7 0.5781250 0.5 NA  
## 8 0.5546875 0.0 NA  
## 9 0.7109375 0.0 NA  
## 10 0.5468750 0.0 NA  
## 11 0.2265625 0.0 NA  
## 12 0.8984375 0.0 NA  
## 13 0.3203125 0.0 NA  
## 14 0.3437500 0.0 NA  
## 15 0.8359375 0.5 NA  
## 16 0.4453125 0.0 NA  
## 17 0.5234375 0.5 NA  
## 18 0.5000000 0.5 NA  
## 19 0.7656250 0.0 NA  
## 20 0.9296875 0.5 NA  
## 21 0.8750000 0.0 NA  
## 22 0.1406250 0.0 NA  
## 23 0.7343750 0.0 NA  
## 24 0.2656250 0.5 NA  
## 25 0.1406250 0.5 NA  
## 26 0.7187500 0.5 NA  
## 27 0.1953125 0.0 NA  
## 28 0.7031250 0.0 NA  
## 29 0.7500000 0.0 NA  
## 30 0.9531250 0.5 NA  
## 31 0.2265625 0.5 NA  
## 32 0.9531250 0.5 NA  
## 33 0.2500000 0.5 NA  
## 34 0.3437500 0.0 NA  
## 35 0.5468750 0.0 NA  
## 36 0.8671875 0.5 NA  
## 37 0.7578125 0.5 NA  
## 38 0.5312500 0.5 NA  
## 39 0.2656250 0.5 NA  
## 40 0.6093750 0.0 NA  
## 41 0.9531250 0.0 NA  
## 42 0.2109375 0.0 NA  
## 43 0.7812500 0.0 NA  
## 44 0.5000000 0.5 NA  
## 45 0.5000000 0.5 NA  
## 46 0.7734375 0.0 NA  
## 47 0.0937500 0.5 NA  
## 48 0.7734375 0.5 NA  
## 49 0.3515625 0.0 NA  
## 50 0.5000000 0.0 NA  
## 51 0.4375000 0.5 NA  
## 52 0.4375000 0.0 NA  
## 53 0.6171875 0.0 NA  
## 54 0.9765625 0.0 NA  
## 55 0.7656250 0.0 NA  
## 56 0.0000000 0.5 NA  
## 57 0.0312500 0.0 NA  
## 58 0.1562500 0.5 NA  
## 59 0.3984375 0.5 NA  
## 60 0.2343750 0.5 NA  
## 61 0.9843750 0.5 NA  
## 62 0.0781250 0.5 NA  
## 63 0.9296875 0.5 NA  
## 64 0.1562500 0.0 NA  
## 65 0.1796875 0.5 NA  
## 66 0.7187500 0.0 NA  
## 67 0.0000000 0.5 NA  
## 68 0.2578125 0.5 NA  
## 69 0.2968750 0.5 NA  
## 70 0.6953125 0.5 NA  
## 71 0.7421875 0.5 NA  
## 72 0.6406250 0.5 NA  
## 73 0.2812500 0.5 NA  
## 74 0.0312500 0.5 NA  
## 75 0.4843750 0.0 NA  
## 76 0.5937500 0.5 NA  
## 77 0.9687500 0.0 NA  
## 78 0.4921875 0.0 NA  
## 79 0.4609375 0.0 NA  
## 80 0.3593750 0.0 NA  
## 81 0.1171875 0.5 NA  
## 82 0.6875000 0.0 NA  
## 83 0.9062500 0.0 NA  
## 84 0.0390625 0.5 NA  
## 85 0.5234375 0.5 NA  
## 86 0.8906250 0.0 NA  
## 87 0.0000000 0.0 NA  
## 88 0.1562500 0.0 NA  
## 89 0.4140625 0.0 NA  
## 90 0.3359375 0.5 NA  
## 91 0.3359375 0.5 NA  
## 92 0.8203125 0.5 NA  
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## 94 0.1796875 0.5 NA  
## 95 0.2031250 0.5 NA  
## 96 0.9531250 0.5 NA  
## 97 0.8359375 0.5 NA  
## 98 0.1484375 0.0 NA  
## 99 0.0000000 0.0 NA  
## 100 0.1484375 0.0 NA  
## 101 0.2343750 0.5 NA  
## 102 0.1562500 0.5 NA  
## 103 0.0000000 0.0 NA  
## 104 0.8593750 0.0 NA  
## 105 0.7343750 0.0 NA  
## 106 0.3906250 0.5 NA  
## 107 0.1171875 0.0 NA  
## 108 0.5390625 0.0 NA  
## 109 0.5000000 0.0 NA  
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## 111 0.5703125 0.0 NA  
## 112 0.8593750 0.0 NA  
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## 114 0.5781250 0.0 NA  
## 115 0.0000000 0.0 NA  
## 116 0.6250000 0.5 NA  
## 117 0.9453125 0.0 NA  
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## 119 0.3828125 0.5 NA  
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## 121 0.1093750 0.5 NA  
## 122 0.0000000 0.5 NA  
## 123 0.1640625 0.5 NA  
## 124 0.3750000 0.0 NA  
## 125 0.9062500 0.0 NA  
## 126 0.5390625 0.0 NA  
## 127 0.0000000 0.0 NA  
## 128 0.8593750 0.0 NA  
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## 134 0.5859375 0.5 NA  
## 135 0.1015625 0.5 NA  
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## 142 0.5937500 0.5 NA  
## 143 0.9062500 0.0 NA  
## 144 0.8046875 0.0 NA  
## 145 0.7265625 0.5 NA  
## 146 0.7343750 0.5 NA  
## 147 0.1562500 0.5 NA  
## 148 0.5390625 0.5 NA  
## 149 0.2890625 0.5 NA  
## 150 0.4218750 0.0 NA  
## 151 0.7968750 0.5 NA  
## 152 0.0234375 0.5 NA  
## 153 0.8750000 0.5 NA  
## 154 0.3437500 0.0 NA  
## 155 0.3281250 0.5 NA  
## 156 0.8671875 0.0 NA  
## 157 0.6171875 0.5 NA  
## 158 0.2109375 0.5 NA  
## 159 0.6406250 0.5 NA  
## 160 0.1406250 0.5 NA  
## 161 0.4218750 0.5 NA  
## 162 0.0781250 0.5 NA  
## 163 0.8906250 0.0 NA  
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## 165 0.0234375 0.0 NA  
## 166 0.4296875 0.5 NA  
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## 182 0.4609375 0.0 NA  
## 183 0.5000000 0.5 NA  
## 184 0.5937500 0.5 NA  
## 185 0.8750000 0.5 NA  
## 186 0.4687500 0.0 NA  
## 187 0.4218750 0.5 NA  
## 188 0.9375000 0.0 NA  
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## 25 2017-09-23 15:01:13 America/Chicago 2017-09-23T14:58:54Z 19 0  
## 26 2017-09-23 15:03:32 America/Chicago 2017-09-23T15:01:13Z 20 0  
## 27 2017-09-23 15:05:50 America/Chicago 2017-09-23T15:03:32Z 21 0  
## 28 2017-09-23 15:07:34 America/Chicago 2017-09-23T15:05:50Z 22 0  
## 29 2017-09-23 15:15:42 America/Chicago 2017-09-23T15:07:34Z 23 485  
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## 287 2017-10-21 14:27:33 America/Chicago 2017-10-21T14:26:20Z 16 0  
## 288 2017-10-21 14:38:45 America/Chicago 2017-10-21T14:27:33Z 17 196  
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## 291 2017-10-22 15:19:07 America/Chicago 2017-10-22T15:08:58Z 4 75  
## 292 2017-10-22 15:26:41 America/Chicago 2017-10-22T15:19:07Z 5 0  
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## 295 2017-10-22 16:10:31 America/Chicago 2017-10-22T15:51:21Z 8 1125  
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## 312 2017-10-26 00:19:02 America/Chicago 2017-10-26T00:18:01Z 9 0  
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## 315 2017-10-26 00:22:31 America/Chicago 2017-10-26T00:21:17Z 12 0  
## 316 2017-10-26 00:23:31 America/Chicago 2017-10-26T00:22:31Z 13 0  
## 317 2017-10-26 00:24:45 America/Chicago 2017-10-26T00:23:31Z 14 0  
## 318 2017-10-26 00:25:46 America/Chicago 2017-10-26T00:24:45Z 15 0  
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## 334 2017-10-26 00:45:43 America/Chicago 2017-10-26T00:44:17Z 31 0  
## 335 2017-10-26 00:47:14 America/Chicago 2017-10-26T00:45:43Z 32 0  
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## 370 2017-11-03 19:24:14 America/Chicago 2017-11-03T19:16:48Z 4 0  
## 371 2017-11-03 19:31:31 America/Chicago 2017-11-03T19:24:14Z 5 0  
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## 389 2017-11-05 18:01:52 America/Chicago 2017-11-05T17:59:52Z 13 0  
## 390 2017-11-05 18:02:24 America/Chicago 2017-11-05T18:01:52Z 14 0  
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## 418 2017-11-11 21:07:36 America/Chicago 2017-11-11T20:59:35Z 4 0  
## 419 2017-11-11 21:15:06 America/Chicago 2017-11-11T21:07:36Z 5 0  
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## 3 0 11.6 20.6  
## 4 0 -30.2 -36.8  
## 5 0 -0.4 -5.6  
## 6 0 -0.6 -1.0  
## 7 0 1.8 -3.4  
## 8 1 -8.2 -8.4  
## 9 1 -8.2 -8.8  
## 10 0 -7.6 -8.8  
## 11 0 -9.4 -3.2  
## 12 0 -6.6 -6.6  
## 13 0 -9.6 -6.6  
## 14 0 -7.2 -16.0  
## 15 0 -7.2 -7.2  
## 16 0 -7.0 -1.8  
## 17 0 4.8 -1.0  
## 18 1 0.0 0.0  
## 19 0 4.6 -7.2  
## 20 0 -0.8 -18.2  
## 21 0 -1.4 -13.4  
## 22 0 -8.0 -14.8  
## 23 0 -10.0 -14.8  
## 24 0 9.2 -0.4  
## 25 0 4.8 -8.6  
## 26 0 -7.6 -13.4  
## 27 0 -6.4 -10.8  
## 28 0 -3.8 3.0  
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## 31 0 -2.4 14.0  
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## 33 0 -2.8 -6.8  
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## 36 1 1.4 5.0  
## 37 0 -6.8 2.0  
## 38 1 5.4 4.2  
## 39 0 -13.0 16.8  
## 40 0 -39.8 -85.8  
## 41 0 -8.8 -11.6  
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## 43 0 4.2 -1.6  
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## 45 1 -0.4 -0.4  
## 46 0 0.0 4.6  
## 47 1 8.2 14.0  
## 48 1 6.0 4.4  
## 49 1 4.6 0.2  
## 50 1 5.6 3.2  
## 51 1 3.8 0.6  
## 52 0 4.2 -1.0  
## 53 0 -2.0 -2.4  
## 54 0 1.6 2.4  
## 55 0 0.6 4.0  
## 56 0 7.2 5.2  
## 57 0 -0.4 -5.2  
## 58 0 2.4 -2.4  
## 59 0 -11.8 -9.0  
## 60 0 -6.0 -5.4  
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## 62 0 -0.4 1.8  
## 63 0 -0.8 1.8  
## 64 0 -19.0 11.8  
## 65 3 -18.0 -36.4  
## 66 0 -9.2 -5.6  
## 67 0 0.0 -2.0  
## 68 0 -19.6 5.0  
## 69 0 19.6 23.8  
## 70 0 11.4 15.8  
## 71 0 0.4 -6.6  
## 72 0 -31.6 2.4  
## 73 0 1.8 5.6  
## 74 0 6.0 6.6  
## 75 0 -1.2 -6.4  
## 76 1 4.2 11.2  
## 77 1 0.2 0.2  
## 78 0 6.4 6.8  
## 79 0 -5.0 1.0  
## 80 0 -6.8 -6.8  
## 81 0 3.8 -2.4  
## 82 0 -2.0 1.6  
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## 87 0 -2.2 -0.2  
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## 89 0 -1.4 -2.4  
## 90 0 -7.4 -3.4  
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## 105 0 3.2 4.6  
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## 115 0 0.2 -8.6  
## 116 0 8.2 4.0  
## 117 0 -0.4 4.6  
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## 128 0 -1.2 0.4  
## 129 0 -1.6 -4.6  
## 130 0 -1.8 1.4  
## 131 0 -6.2 -5.6  
## 132 0 8.4 7.0  
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## 134 0 2.8 9.6  
## 135 0 4.0 -0.8  
## 136 0 8.6 -6.6  
## 137 1 0.8 0.8  
## 138 0 -0.2 1.4  
## 139 0 -6.0 -7.2  
## 140 0 9.2 15.2  
## 141 0 -21.2 -11.0  
## 142 1 -14.0 -21.8  
## 143 1 6.4 5.2  
## 144 1 -4.2 -8.2  
## 145 0 -3.0 0.2  
## 146 1 -7.0 -2.8  
## 147 0 0.2 -1.6  
## 148 0 16.8 12.2  
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## 150 0 1.8 8.2  
## 151 0 69.4 169.8  
## 152 1 -10.0 -8.6  
## 153 2 6.2 58.0  
## 154 0 3.2 3.6  
## 155 1 -0.2 -0.2  
## 156 0 -4.4 1.6  
## 157 0 3.2 0.4  
## 158 0 4.0 -2.4  
## 159 0 -5.6 -2.4  
## 160 0 7.4 -0.2  
## 161 0 -11.0 -3.8  
## 162 0 0.0 7.2  
## 163 0 3.6 4.8  
## 164 0 2.2 2.0  
## 165 0 2.8 4.8  
## 166 0 1.4 0.6  
## 167 0 -0.4 1.2  
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## 169 0 -2.8 2.2  
## 170 0 -1.2 4.6  
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## 173 0 -6.6 -5.8  
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## 175 0 1.0 -4.4  
## 176 0 -1.6 2.8  
## 177 0 1.0 4.8  
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## 180 0 -0.2 1.6  
## 181 0 -9.0 6.8  
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## 183 1 -1.0 -1.0  
## 184 0 8.6 11.0  
## 185 4 -5.6 8.2  
## 186 0 -7.8 -6.2  
## 187 0 2.2 2.8  
## 188 0 3.0 2.0  
## 189 0 -7.2 3.8  
## 190 0 -4.6 -10.4  
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## 387 -0.8 -4.4  
## 388 5.4 9.0  
## 389 2.2 -3.8  
## 390 4.0 -1.8  
## 391 7.6 8.6  
## 392 5.6 9.6  
## 393 0.0 9.0  
## 394 -47.2 -47.2  
## 395 -10.2 4.6  
## 396 -2.0 -2.0  
## 397 -11.8 -4.2  
## 398 8.4 6.8  
## 399 2.2 10.4  
## 400 -1.8 -1.4  
## 401 1.2 -6.8  
## 402 2.2 0.4  
## 403 0.8 2.0  
## 404 0.4 -2.4  
## 405 9.2 4.8  
## 406 -5.4 -1.0  
## 407 0.2 0.2  
## 408 -5.0 -1.8  
## 409 23.0 12.0  
## 410 -21.2 -1.6  
## 411 -131.8 -130.0  
## 412 23.4 18.8  
## 413 -26.2 -10.2  
## 414 0.8 -4.6  
## 415 -7.6 -20.6  
## 416 0.4 1.0  
## 417 -3.8 2.4  
## 418 -10.8 9.8  
## 419 -7.6 -6.8  
## 420 -0.4 8.4  
## 421 72.0 29.4  
## 422 4.2 9.0  
## 423 81.2 93.0  
## 424 13.4 2.2  
## 425 -3.0 4.4  
## 426 6.4 1.2  
## 427 -10.8 -2.2  
## 428 -3.0 -5.0  
## 429 15.8 9.0  
## 430 -1.0 9.4  
## 431 14.8 -0.4  
## 432 11.0 26.8  
## 433 3.6 0.2  
## 434 -3.2 -4.0  
## 435 8.8 6.0  
## 436 0.2 0.2  
## 437 1.4 0.8  
## 438 6.0 4.0  
## 439 10.6 13.2  
## 440 1.0 -1.0  
## 441 -5.0 -19.0  
## 442 -10.6 -13.4  
## 443 -3.0 -9.0  
## 444 1.8 -2.6  
## 445 12.0 9.4  
## 446 7.8 6.6  
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## 453 -4.0 4.6  
## 454 8.0 -2.8  
## 455 1.8 1.0  
## 456 5.8 -2.0  
## 457 -4.0 -0.8  
## 458 -2.4 -2.6  
## 459 5.2 -1.0  
## 460 -3.4 -0.4  
## 461 2.6 10.4  
## 462 -5.0 -6.2  
## 463 1.2 -4.6  
## 464 0.2 3.0  
## 465 -3.8 -14.0  
## 466 2.4 3.4  
## 467 1.0 3.4  
## altitude\_change\_past\_300\_seconds altitude\_change\_past\_360\_seconds  
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## 2 1.8 -5.4  
## 3 30.2 30.2  
## 4 -31.6 -2.4  
## 5 5.4 10.0  
## 6 -0.8 4.0  
## 7 -26.2 14.4  
## 8 7.2 4.8  
## 9 -6.0 -6.0  
## 10 -7.6 -14.0  
## 11 -10.2 0.0  
## 12 -6.2 3.6  
## 13 -9.0 -6.4  
## 14 -14.0 -8.2  
## 15 -4.2 -8.4  
## 16 -12.4 5.6  
## 17 1.2 9.6  
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## 19 4.2 4.2  
## 20 -2.8 -2.8  
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## 23 2.8 1.6  
## 24 7.0 4.8  
## 25 -1.6 -2.0  
## 26 -7.6 -8.0  
## 27 -4.6 -4.4  
## 28 1.4 -6.0  
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## 31 22.6 7.8  
## 32 -2.8 -13.6  
## 33 -6.4 -8.2  
## 34 -3.2 -3.4  
## 35 -20.8 0.6  
## 36 4.4 6.2  
## 37 -6.0 -4.6  
## 38 -10.6 17.0  
## 39 13.2 -23.4  
## 40 -28.0 -4.0  
## 41 -6.0 -3.0  
## 42 8.0 7.4  
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## 44 -1.0 -4.8  
## 45 4.6 0.4  
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## 47 4.2 4.2  
## 48 1.0 1.0  
## 49 -4.4 -4.4  
## 50 -2.4 -2.4  
## 51 0.6 0.6  
## 52 0.0 0.0  
## 53 -2.6 -2.6  
## 54 -81.2 -98.6  
## 55 -7.0 5.0  
## 56 3.4 6.8  
## 57 -0.6 -2.8  
## 58 -4.6 0.0  
## 59 -3.0 -4.0  
## 60 -18.4 -26.2  
## 61 9.2 12.8  
## 62 -0.2 0.6  
## 63 6.4 1.2  
## 64 -8.0 -12.0  
## 65 -33.8 -14.6  
## 66 6.0 -14.2  
## 67 7.6 -6.8  
## 68 18.8 18.2  
## 69 24.6 20.6  
## 70 19.6 15.8  
## 71 -14.0 -8.8  
## 72 3.8 11.4  
## 73 -9.2 -12.4  
## 74 -5.8 2.0  
## 75 -3.4 -18.8  
## 76 -2.4 -2.4  
## 77 -0.8 3.8  
## 78 5.6 3.6  
## 79 1.4 0.2  
## 80 -2.4 -3.8  
## 81 2.4 2.4  
## 82 -6.0 1.6  
## 83 -3.0 -7.0  
## 84 6.2 0.2  
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## 87 -0.6 1.6  
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## 89 3.6 -0.2  
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## 115 -0.2 1.4  
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## 122 -2.0 0.8  
## 123 -3.2 -0.4  
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## 126 -2.0 0.2  
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## 130 2.2 -2.0  
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## 133 -0.8 -3.2  
## 134 9.6 4.2  
## 135 4.0 4.0  
## 136 2.6 2.6  
## 137 0.8 0.8  
## 138 2.4 -2.6  
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## 140 12.4 18.4  
## 141 -11.0 -11.0  
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## 143 7.4 6.6  
## 144 0.0 0.0  
## 145 6.6 7.0  
## 146 -9.2 -7.0  
## 147 6.2 3.6  
## 148 7.4 6.6  
## 149 -0.8 2.4  
## 150 0.2 -9.6  
## 151 214.0 212.2  
## 152 -6.8 4.2  
## 153 50.8 16.4  
## 154 -1.8 -3.4  
## 155 -0.2 -0.2  
## 156 -2.6 -2.6  
## 157 0.2 0.2  
## 158 0.4 0.4  
## 159 -5.8 -5.8  
## 160 0.0 2.0  
## 161 -5.2 -11.4  
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## 164 2.8 7.4  
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## 166 4.0 8.6  
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## 168 9.8 5.4  
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## 170 7.0 7.6  
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## 213 7.2 2.8  
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## 234 2.2 1.6  
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## 238 19.2 6.8  
## 239 2.8 -14.2  
## 240 -23.8 -13.8  
## 241 -6.2 -6.2  
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## 245 9.0 9.0  
## 246 7.4 7.4  
## 247 7.2 6.2  
## 248 7.6 5.8  
## 249 0.6 -4.8  
## 250 6.0 1.8  
## 251 8.0 3.8  
## 252 3.0 2.4  
## 253 14.4 7.0  
## 254 6.8 3.4  
## 255 -1.0 0.4  
## 256 6.0 0.8  
## 257 6.2 -7.4  
## 258 -0.2 3.2  
## 259 2.0 -4.2  
## 260 6.8 1.6  
## 261 -2.6 2.8  
## 262 7.8 -2.2  
## 263 8.0 8.8  
## 264 -0.2 2.2  
## 265 4.2 -2.0  
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## 275 -9.6 -9.6  
## 276 -2.4 8.0  
## 277 17.0 16.6  
## 278 2.0 7.2  
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## 285 12.0 15.6  
## 286 1.6 6.4  
## 287 1.8 -2.0  
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## 315 0.6 -6.4  
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## 317 0.4 0.4  
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## 321 7.6 5.4  
## 322 10.8 13.6  
## 323 6.8 -3.2  
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## 327 0.6 -8.4  
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## 329 -2.8 -8.4  
## 330 2.8 9.0  
## 331 4.8 -0.2  
## 332 6.4 6.4  
## 333 3.2 16.4  
## 334 -9.4 -18.2  
## 335 -7.4 -7.4  
## 336 -9.0 -20.2  
## 337 3.6 1.4  
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## 339 -38.6 -65.2  
## 340 58.2 -3.2  
## 341 -20.6 -14.0  
## 342 8.8 7.2  
## 343 -40.2 -64.0  
## 344 -20.8 -17.8  
## 345 NA NA  
## 346 -0.2 -0.2  
## 347 1.6 -6.2  
## 348 -10.2 0.6  
## 349 -8.8 -2.0  
## 350 -8.8 -5.0  
## 351 10.8 8.8  
## 352 -5.8 13.4  
## 353 0.6 6.6  
## 354 2.8 -2.6  
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## 356 14.0 12.2  
## 357 14.2 7.2  
## 358 9.8 8.0  
## 359 12.2 7.4  
## 360 23.2 12.4  
## 361 25.2 13.6  
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## 372 -34.0 -3.6  
## 373 6.4 12.0  
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## 378 12.4 6.0  
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## 380 -6.4 -2.8  
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## 382 6.2 15.0  
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## 384 -7.0 6.8  
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## 386 -4.0 -4.2  
## 387 -12.4 2.0  
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## 389 2.0 5.6  
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## 391 8.2 2.6  
## 392 3.8 9.8  
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## 395 -2.0 2.0  
## 396 -2.0 2.0  
## 397 -4.2 -4.2  
## 398 3.8 -3.4  
## 399 7.6 7.0  
## 400 4.8 -2.6  
## 401 -6.2 3.6  
## 402 -2.2 -1.4  
## 403 1.0 -1.8  
## 404 -2.0 2.0  
## 405 6.8 5.8  
## 406 -5.2 -2.0  
## 407 0.2 0.2  
## 408 -6.0 -4.2  
## 409 22.8 24.4  
## 410 0.4 -29.6  
## 411 -122.4 -140.0  
## 412 14.0 10.8  
## 413 1.6 -3.4  
## 414 -0.6 -3.8  
## 415 -17.8 -43.2  
## 416 -15.8 -12.6  
## 417 4.6 1.4  
## 418 -5.0 -7.2  
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## 420 12.4 10.4  
## 421 3.0 -21.2  
## 422 -3.2 -1.8  
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## 424 4.4 -0.8  
## 425 26.2 20.2  
## 426 -6.4 -6.8  
## 427 -4.2 0.4  
## 428 -9.0 -1.6  
## 429 -10.0 -10.4  
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## 431 0.6 -8.8  
## 432 13.6 7.6  
## 433 6.4 -1.2  
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## 436 0.2 0.2  
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## 439 6.8 11.8  
## 440 -11.6 3.4  
## 441 -44.4 -75.4  
## 442 2.6 -11.0  
## 443 -9.0 -9.0  
## 444 -8.2 -8.2  
## 445 8.8 -3.2  
## 446 6.0 -3.4  
## 447 9.6 6.2  
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## 457 -1.4 -2.6  
## 458 3.6 -3.6  
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## 460 -2.4 -4.0  
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## 462 -5.4 -1.0  
## 463 -12.0 -4.4  
## 464 2.6 2.0  
## 465 1.0 -5.0  
## 466 -4.8 2.2  
## 467 0.8 -8.2  
## altitude\_change\_past\_420\_seconds altitude\_change\_past\_480\_seconds  
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## 2 -7.6 3.4  
## 3 21.6 13.2  
## 4 -45.4 -3.4  
## 5 10.8 -25.8  
## 6 0.8 0.4  
## 7 -56.6 -57.4  
## 8 9.6 5.4  
## 9 5.4 7.2  
## 10 -9.8 -5.8  
## 11 -5.6 -5.0  
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## 14 -12.0 -6.6  
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## 16 -6.8 -1.0  
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## 19 4.2 4.2  
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## 21 -3.2 1.0  
## 22 -11.2 -6.0  
## 23 -8.2 -9.0  
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## 25 4.0 -3.8  
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## 48 1.0 4.8  
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## 54 -98.6 -98.6  
## 55 -101.2 -101.2  
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## 57 -0.8 0.0  
## 58 -1.8 0.4  
## 59 0.6 1.4  
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## 61 11.8 5.8  
## 62 -4.8 14.0  
## 63 2.0 1.0  
## 64 -30.0 -35.4  
## 65 -18.6 -6.0  
## 66 -14.2 -14.2  
## 67 4.2 23.4  
## 68 18.2 16.2  
## 69 8.4 8.8  
## 70 15.8 -1.2  
## 71 -19.0 68.2  
## 72 7.8 10.6  
## 73 5.6 -6.2  
## 74 3.2 1.6  
## 75 -25.0 -34.2  
## 76 -2.4 -2.4  
## 77 10.8 8.6  
## 78 13.2 17.0  
## 79 -2.2 8.6  
## 80 -3.4 -5.0  
## 81 0.8 1.2  
## 82 1.6 -0.2  
## 83 0.6 0.6  
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## 87 5.2 -0.6  
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## 120 7.6 2.6  
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## 122 1.0 5.2  
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## 125 -1.6 0.4  
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## 127 2.4 -1.8  
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## 131 -2.2 -2.6  
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## 350 -11.2 -6.6  
## 351 4.6 4.2  
## 352 13.6 3.8  
## 353 12.6 6.2  
## 354 15.2 16.2  
## 355 23.2 27.6  
## 356 22.6 24.2  
## 357 21.0 26.2  
## 358 19.6 23.0  
## 359 20.8 16.0  
## 360 21.8 22.6  
## 361 9.2 22.4  
## 362 0.0 0.0  
## 363 -7.2 -2.6  
## 364 -0.6 -25.2  
## 365 -62.4 -62.4  
## 366 32.8 42.2  
## 367 19.8 19.8  
## 368 0.4 7.0  
## 369 -13.2 -9.6  
## 370 1.6 -5.6  
## 371 5.4 0.8  
## 372 -27.8 -30.0  
## 373 7.4 1.2  
## 374 -2.8 1.6  
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## 376 -6.2 -17.4  
## 377 -10.2 -10.2  
## 378 13.0 5.2  
## 379 -11.8 -26.4  
## 380 -5.8 0.8  
## 381 3.2 -2.6  
## 382 3.0 2.0  
## 383 -10.4 -4.8  
## 384 -0.8 -13.0  
## 385 0.6 1.8  
## 386 9.4 3.4  
## 387 -9.4 -5.0  
## 388 -1.8 0.2  
## 389 7.6 -3.4  
## 390 10.0 0.2  
## 391 7.6 5.0  
## 392 9.4 6.0  
## 393 3.2 13.0  
## 394 -47.2 -47.2  
## 395 -5.2 -5.2  
## 396 -1.0 -7.2  
## 397 -0.2 -5.2  
## 398 3.4 7.6  
## 399 5.6 5.6  
## 400 0.4 -4.8  
## 401 1.6 0.0  
## 402 5.4 -1.8  
## 403 -2.2 4.2  
## 404 -3.8 -2.8  
## 405 6.2 2.8  
## 406 -2.0 2.0  
## 407 0.2 0.2  
## 408 -8.4 -8.4  
## 409 20.8 16.0  
## 410 -25.8 -20.0  
## 411 -182.2 -182.2  
## 412 27.6 -16.0  
## 413 0.8 10.4  
## 414 -0.4 -3.4  
## 415 -25.0 -25.0  
## 416 -3.8 -1.4  
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## 418 -6.0 -3.2  
## 419 0.4 -1.2  
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## 421 -30.8 -30.8  
## 422 80.0 36.6  
## 423 90.2 93.0  
## 424 80.0 86.8  
## 425 30.4 20.8  
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## 427 4.4 2.0  
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## 429 -35.6 -41.2  
## 430 14.8 10.6  
## 431 15.6 0.0  
## 432 3.2 11.0  
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## 434 -17.0 -24.8  
## 435 17.8 20.0  
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## 439 -1.8 12.4  
## 440 -11.6 0.2  
## 441 -57.4 -57.4  
## 442 -60.8 -49.6  
## 443 -9.0 14.2  
## 444 -8.2 -8.2  
## 445 -3.2 -3.2  
## 446 -5.0 -5.0  
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## 458 6.0 0.4  
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## 460 4.0 -5.8  
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## 462 -3.0 -7.0  
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## 464 1.4 -2.0  
## 465 -1.2 -5.0  
## 466 2.8 7.6  
## 467 -7.4 -0.6  
## altitude\_change\_past\_660\_seconds altitude\_change\_past\_720\_seconds  
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## 2 -1.8 -2.8  
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## 4 -3.4 -3.4  
## 5 -24.6 -30.0  
## 6 11.6 3.4  
## 7 -57.4 -57.4  
## 8 -36.0 -48.8  
## 9 -1.2 -15.0  
## 10 3.0 6.2  
## 11 -6.4 -6.4  
## 12 -1.2 -6.6  
## 13 -3.0 -4.0  
## 14 -5.8 -6.8  
## 15 -9.0 -5.0  
## 16 -1.8 -10.0  
## 17 8.8 1.6  
## 18 0.0 -9.0  
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## 22 1.2 1.2  
## 23 -10.2 0.8  
## 24 6.4 7.8  
## 25 -3.0 9.0  
## 26 -3.0 4.2  
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## 28 9.8 0.0  
## 29 5.4 5.8  
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## 32 4.4 14.6  
## 33 -9.6 -11.2  
## 34 -5.6 -7.6  
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## 36 3.2 -23.0  
## 37 -3.2 -2.6  
## 38 22.8 20.2  
## 39 17.4 11.4  
## 40 3.0 3.0  
## 41 -50.0 -46.4  
## 42 7.4 -1.2  
## 43 -48.0 -48.0  
## 44 -4.8 -4.8  
## 45 -4.6 -4.6  
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## 47 1.8 2.4  
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## 52 -5.2 -9.6  
## 53 -2.6 -9.0  
## 54 -98.6 -98.6  
## 55 -101.2 -101.2  
## 56 -94.6 -94.6  
## 57 8.2 -97.0  
## 58 0.4 -10.4  
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## 61 6.4 -10.2  
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## 63 -1.2 -1.2  
## 64 -35.4 -35.4  
## 65 -31.8 -48.6  
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## 67 -15.8 -13.6  
## 68 21.0 9.4  
## 69 8.8 8.8  
## 70 25.4 24.8  
## 71 72.6 72.6  
## 72 1.2 -2.4  
## 73 3.2 3.8  
## 74 9.2 1.4  
## 75 -34.2 -34.2  
## 76 -2.4 -2.4  
## 77 -2.8 -2.8  
## 78 4.8 3.8  
## 79 4.0 -0.2  
## 80 3.8 2.2  
## 81 2.6 8.4  
## 82 13.4 0.4  
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## 84 1.2 -0.8  
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## 86 -2.0 -4.0  
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## 89 2.0 2.2  
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## 117 -0.2 -1.6  
## 118 8.2 0.4  
## 119 6.8 1.2  
## 120 5.2 -2.0  
## 121 0.6 2.6  
## 122 -1.8 7.4  
## 123 -2.6 2.6  
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## 126 8.2 0.8  
## 127 6.0 1.0  
## 128 -1.8 -4.0  
## 129 3.2 -1.8  
## 130 0.4 7.0  
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## 135 0.2 -2.2  
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## 138 -0.4 -0.4  
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## 140 16.0 16.4  
## 141 -11.0 -11.0  
## 142 -26.8 -26.8  
## 143 -14.0 -14.0  
## 144 -4.6 -3.6  
## 145 1.0 3.8  
## 146 -8.4 -6.4  
## 147 -17.0 -17.0  
## 148 7.0 1.2  
## 149 11.6 0.6  
## 150 -96.6 -96.6  
## 151 228.0 220.8  
## 152 -174.4 -93.4  
## 153 74.4 73.8  
## 154 -3.0 -27.8  
## 155 -2.8 -1.0  
## 156 -3.4 -0.4  
## 157 -1.2 0.8  
## 158 -2.2 0.8  
## 159 -5.8 -9.4  
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## 161 -9.0 -9.0  
## 162 -0.4 -0.4  
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## 166 4.4 4.4  
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## 168 11.4 9.2  
## 169 8.4 8.4  
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## 173 3.4 -2.0  
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## 217 7.6 2.4  
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## 241 4.8 -3.8  
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## 244 -4.0 -4.0  
## 245 -2.0 -2.0  
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## 247 2.2 1.4  
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## 251 5.2 6.8  
## 252 9.4 8.0  
## 253 8.4 7.0  
## 254 0.4 1.2  
## 255 8.0 3.0  
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## 257 3.8 1.8  
## 258 7.6 3.6  
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## 261 8.4 -2.6  
## 262 -1.2 2.8  
## 263 10.6 3.8  
## 264 4.0 -1.6  
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## 266 6.8 -1.6  
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## 268 5.6 5.6  
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## 278 4.2 15.0  
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## 325 -0.8 1.0  
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## 329 -0.4 6.0  
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## 331 2.0 6.8  
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## 335 4.2 -5.8  
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## 337 1.4 -5.4  
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## 343 -0.8 4.8  
## 344 -25.8 -75.8  
## 345 NA NA  
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## 350 -3.6 -4.8  
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## 353 0.0 13.2  
## 354 10.4 15.8  
## 355 17.8 18.2  
## 356 31.0 20.6  
## 357 29.6 18.4  
## 358 24.2 19.2  
## 359 17.6 24.4  
## 360 25.4 26.6  
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## 393 15.2 11.4  
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## 424 96.4 89.8  
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## 454 9.4 7.4  
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## 456 1.8 3.0  
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## 463 -1.4 -6.0  
## 464 4.0 -0.4  
## 465 -7.4 -5.0  
## 466 -0.4 -3.6  
## 467 2.0 -0.4  
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## 4 -3.4 -3.4  
## 5 11.0 -29.2  
## 6 8.8 7.8  
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## 8 -48.8 -48.8  
## 9 18.4 -53.6  
## 10 0.0 -7.4  
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## 12 -3.0 -3.0  
## 13 -10.6 -16.4  
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## 55 -101.2 -101.2  
## 56 -94.6 -94.6  
## 57 -100.2 -100.2  
## 58 -2.8 -101.8  
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## 61 -14.8 -14.6  
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## 63 8.6 8.8  
## 64 -35.4 -35.4  
## 65 -18.2 -12.0  
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## 67 -13.6 -13.6  
## 68 15.8 32.2  
## 69 8.8 8.8  
## 70 23.6 18.4  
## 71 72.6 72.6  
## 72 -2.4 6.8  
## 73 6.2 9.6  
## 74 3.6 -11.2  
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## 76 -2.4 -2.4  
## 77 -2.8 -2.8  
## 78 3.8 3.8  
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## 84 5.8 2.2  
## 85 1.0 6.6  
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## 87 0.8 -0.6  
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## 89 2.2 1.8  
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## 424 15.450798 15.450798  
## 425 15.364570 15.364570  
## 426 15.406330 15.406330  
## 427 15.451321 15.451321  
## 428 15.478828 15.478828  
## 429 10.954730 10.954730  
## 430 11.262337 11.262337  
## 431 11.717669 11.717669  
## 432 11.830019 11.830019  
## 433 12.378786 12.378786  
## 434 12.793803 12.793803  
## 435 12.881565 12.881565  
## 436 12.848235 12.848235  
## 437 12.722731 12.722731  
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## 439 12.477266 12.477266  
## 440 12.378526 12.378526  
## 441 12.825270 12.825270  
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## 443 13.398154 13.398154  
## 444 13.378070 13.378070  
## 445 13.956015 13.956015  
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## 447 14.310441 14.310441  
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## 449 14.575214 14.575214  
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## 451 14.693416 14.693416  
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## 458 14.799385 14.799385  
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## 461 14.982221 14.982221  
## 462 14.889214 14.889214  
## 463 15.011901 15.011901  
## 464 14.952556 14.952556  
## 465 15.060777 15.060777  
## 466 14.964462 14.964462  
## 467 15.107086 15.107086  
## heart\_rate\_past\_60\_seconds heart\_rate\_past\_120\_seconds  
## 1 143.90000 144.30000  
## 2 156.20000 154.39167  
## 3 154.33333 153.30000  
## 4 142.81667 143.44167  
## 5 158.43333 158.43333  
## 6 158.56667 158.51667  
## 7 135.11667 134.60833  
## 8 151.78333 148.72500  
## 9 156.35593 154.93277  
## 10 157.68333 157.82500  
## 11 160.70000 160.04167  
## 12 162.35000 161.40000  
## 13 162.21667 161.64167  
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## 15 165.66667 165.34167  
## 16 165.63333 165.31667  
## 17 166.58333 166.86667  
## 18 94.50000 94.50000  
## 19 154.36667 149.38333  
## 20 158.41667 158.42500  
## 21 160.26667 160.60833  
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## 23 164.40000 164.42500  
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## 26 168.46667 168.86667  
## 27 170.46667 170.29167  
## 28 177.60000 176.03333  
## 29 102.00000 102.00000  
## 30 141.98333 133.81667  
## 31 147.63333 146.96667  
## 32 149.26667 150.10000  
## 33 157.45000 157.10833  
## 34 157.43333 157.65000  
## 35 138.98333 137.68333  
## 36 146.45000 145.48333  
## 37 148.06667 146.83333  
## 38 146.10000 146.75000  
## 39 146.71667 147.69167  
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## 42 162.26667 162.40833  
## 43 143.08333 145.41667  
## 44 128.43333 124.21667  
## 45 80.50000 80.50000  
## 46 167.01667 169.05833  
## 47 166.75000 167.17500  
## 48 170.21667 168.39167  
## 49 171.28333 170.75000  
## 50 170.88095 170.52941  
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## 52 162.85000 160.37500  
## 53 164.50000 164.26667  
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## 55 154.56667 154.79167  
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## 59 147.00000 147.94167  
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## 62 154.08333 153.91667  
## 63 155.75000 153.83333  
## 64 160.95000 159.22500  
## 65 142.03333 144.71667  
## 66 163.76667 164.22500  
## 67 168.10000 167.80833  
## 68 172.03333 171.77500  
## 69 141.83051 140.43697  
## 70 142.91667 142.08333  
## 71 134.60000 135.40000  
## 72 143.66667 144.12500  
## 73 150.30000 148.28333  
## 74 149.38333 149.11667  
## 75 152.22034 155.05042  
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## 77 85.80000 85.80000  
## 78 147.80000 139.01429  
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## 81 145.91667 156.09167  
## 82 166.90000 154.19167  
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## 86 147.68333 155.70000  
## 87 158.51667 152.88333  
## 88 159.00000 154.45833  
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## 90 161.81667 160.65000  
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## 92 162.81667 162.55000  
## 93 164.55000 164.17500  
## 94 162.91667 163.07500  
## 95 164.61667 164.36667  
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## 112 164.53333 164.55000  
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## 114 165.53333 165.03333  
## 115 166.55000 165.54167  
## 116 165.66667 165.50833  
## 117 165.96667 165.72500  
## 118 165.08333 165.74167  
## 119 166.06667 165.95000  
## 120 165.61667 165.90833  
## 121 167.03333 166.05833  
## 122 165.70000 165.84167  
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## 126 166.03333 165.97500  
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## 128 167.31667 166.14167  
## 129 168.41667 166.99167  
## 130 168.25000 167.45000  
## 131 168.61667 168.10000  
## 132 167.53333 167.55833  
## 133 106.00000 106.00000  
## 134 158.05000 149.45055  
## 135 164.41667 163.20000  
## 136 166.65000 165.37500  
## 137 86.66667 86.66667  
## 138 119.36667 122.45000  
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## 140 148.60000 144.67500  
## 141 111.15000 108.70312  
## 142 132.70000 126.69748  
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## 145 140.85000 141.58333  
## 146 136.56667 134.07080  
## 147 130.46667 129.26667  
## 148 137.83333 136.00000  
## 149 141.15000 141.00833  
## 150 141.98333 146.75000  
## 151 126.41667 123.49167  
## 152 134.16667 132.68333  
## 153 92.75000 133.14286  
## 154 150.75000 149.02500  
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## 157 136.68333 137.62500  
## 158 140.53333 138.68333  
## 159 155.70000 148.30833  
## 160 156.05085 152.59664  
## 161 161.83333 158.86555  
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## 215 135.73333 135.09167  
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## 217 132.86667 134.05833  
## 218 136.86667 135.70833  
## 219 144.16667 143.80833  
## 220 145.63333 144.58333  
## 221 130.16667 131.51667  
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## 224 116.69048 116.69048  
## 225 105.60000 113.77193  
## 226 114.42857 110.23333  
## 227 148.28333 148.82500  
## 228 94.00000 146.80000  
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## 230 164.63333 164.52500  
## 231 165.46667 165.34167  
## 232 166.95000 166.88333  
## 233 164.11667 164.60833  
## 234 164.76667 165.39167  
## 235 167.38333 167.35833  
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## 239 157.31667 153.24074  
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## 241 140.23333 130.22581  
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## 249 NA NA  
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## 252 NA NA  
## 253 167.10000 NA  
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## 255 NA NA  
## 256 165.61667 NA  
## 257 172.90000 171.05833  
## 258 NA NA  
## 259 167.10000 NA  
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## 261 NA NA  
## 262 168.00000 NA  
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## 265 169.55000 NA  
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## 267 110.00000 110.00000  
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## 270 138.78333 136.01667  
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## 272 137.15909 142.64423  
## 273 78.00000 78.00000  
## 274 139.88333 137.88710  
## 275 168.10000 166.45833  
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## 294 146.53333 143.96667  
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## 310 148.26667 155.58333  
## 311 165.36667 154.07500  
## 312 147.90000 156.80000  
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## 319 165.50000 155.18333  
## 320 NA NA  
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## 322 NA NA  
## 323 166.68333 NA  
## 324 NA NA  
## 325 165.71667 NA  
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## 327 166.53333 156.51667  
## 328 152.00000 159.26667  
## 329 166.10000 156.20000  
## 330 153.36667 159.73333  
## 331 168.46667 159.16667  
## 332 125.70000 140.55833  
## 333 106.00000 117.16667  
## 334 156.83333 148.19540  
## 335 162.95000 161.36667  
## 336 154.66667 159.09167  
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## 338 146.96667 146.49167  
## 339 165.81667 165.47500  
## 340 150.81356 150.52941  
## 341 149.66667 154.15833  
## 342 153.86667 151.81667  
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## 345 NA NA  
## 346 145.56667 139.20833  
## 347 137.80000 137.82500  
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## 349 140.73333 131.85000  
## 350 139.75000 139.65833  
## 351 146.01667 144.60000  
## 352 140.88333 143.34167  
## 353 144.38333 144.39167  
## 354 152.61667 147.61667  
## 355 159.75000 150.40000  
## 356 162.61667 159.04167  
## 357 160.66667 161.95833  
## 358 161.43333 162.85833  
## 359 163.55000 163.08333  
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## 365 153.66667 154.75000  
## 366 147.65000 148.82500  
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## 368 142.08333 143.95000  
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## 409 133.76667 NA  
## 410 148.88889 147.34211  
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## 416 145.00000 142.90000  
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## 464 167.35000 166.19167  
## 465 168.23333 167.08333  
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## 467 169.70000 165.84167  
## heart\_rate\_past\_180\_seconds heart\_rate\_past\_240\_seconds  
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## 2 153.39444 153.00000  
## 3 152.86667 152.87083  
## 4 144.01667 146.06667  
## 5 158.82222 158.05417  
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## 7 134.26667 133.43750  
## 8 141.58784 141.58784  
## 9 154.11173 153.36402  
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## 16 165.43889 165.50000  
## 17 166.53889 166.40000  
## 18 94.50000 94.50000  
## 19 144.61481 144.61481  
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## 23 163.82222 163.62083  
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## 25 167.23333 166.91667  
## 26 168.36667 167.80833  
## 27 169.87778 169.45833  
## 28 173.92778 173.02500  
## 29 102.00000 102.00000  
## 30 137.16556 142.70142  
## 31 147.37222 147.46667  
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## 34 157.57778 157.45607  
## 35 141.33889 140.24865  
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## 38 146.22222 146.34167  
## 39 147.61667 147.00000  
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## 44 122.69444 122.37500  
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## 47 166.53333 161.51667  
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## 50 169.61728 167.21171  
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## 52 152.18889 151.57143  
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## 59 147.98333 148.37500  
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## 62 153.21667 152.14583  
## 63 153.65556 153.26667  
## 64 157.65556 156.25116  
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## 66 163.82222 163.52083  
## 67 166.61111 166.17083  
## 68 171.15000 170.49167  
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## 70 141.06111 140.75833  
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## 74 148.87778 148.40833  
## 75 155.06704 155.11297  
## 76 120.10000 119.24583  
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## 118 165.41111 165.10000  
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## 121 165.94444 165.64167  
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## total\_time\_spent\_running\_past\_120\_seconds  
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## total\_time\_spent\_running\_past\_180\_seconds  
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## total\_time\_spent\_running\_past\_240\_seconds  
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## total\_time\_spent\_running\_past\_300\_seconds  
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## total\_time\_spent\_running\_past\_360\_seconds  
## 1 310  
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## 50 246  
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## total\_time\_spent\_running\_past\_420\_seconds  
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## 46 237  
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## total\_time\_spent\_running\_past\_480\_seconds  
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## 364 2808  
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## 12 1200  
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## 17 1982  
## 18 1985  
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## 52 1823  
## 53 1912  
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## 94 1862  
## 95 1892  
## 96 1929  
## 97 1960  
## 98 1996  
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## 360 3559  
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## 362 3603  
## 363 4079  
## 364 4540  
## 365 398  
## 366 820  
## 367 442  
## 368 894  
## 369 1351  
## 370 1797  
## 371 2234  
## 372 2672  
## 373 3085  
## 374 3477  
## 375 3893  
## 376 4297  
## 377 445  
## 378 875  
## 379 1306  
## 380 1722  
## 381 1783  
## 382 1814  
## 383 1934  
## 384 1974  
## 385 2095  
## 386 2127  
## 387 2248  
## 388 2288  
## 389 2408  
## 390 2440  
## 391 2561  
## 392 2607  
## 393 3031  
## 394 410  
## 395 813  
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## 397 1029  
## 398 1199  
## 399 1263  
## 400 1432  
## 401 1502  
## 402 1671  
## 403 1746  
## 404 1914  
## 405 1990  
## 406 2154  
## 407 2158  
## 408 2632  
## 409 3093  
## 410 3555  
## 411 442  
## 412 915  
## 413 1374  
## 414 1825  
## 415 460  
## 416 909  
## 417 1381  
## 418 1862  
## 419 2312  
## 420 2755  
## 421 384  
## 422 752  
## 423 1117  
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## 425 1877  
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## 428 2984  
## 429 514  
## 430 1011  
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## 433 1946  
## 434 2328  
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## 436 2796  
## 437 3252  
## 438 3722  
## 439 4191  
## 440 4664  
## 441 446  
## 442 586  
## 443 800  
## 444 801  
## 445 872  
## 446 906  
## 447 984  
## 448 1017  
## 449 1096  
## 450 1132  
## 451 1216  
## 452 1256  
## 453 1342  
## 454 1384  
## 455 1464  
## 456 1500  
## 457 1585  
## 458 1622  
## 459 1707  
## 460 1746  
## 461 1831  
## 462 1872  
## 463 1954  
## 464 1990  
## 465 2073  
## 466 2118  
## 467 2196  
## altitude\_change\_past\_0\_to\_60\_seconds altitude\_change\_past\_60\_to\_120\_seconds  
## 1 8.6 -8.6  
## 2 -10.4 12.0  
## 3 11.6 9.0  
## 4 -30.2 -6.6  
## 5 -0.4 -5.2  
## 6 -0.6 -0.4  
## 7 1.8 -5.2  
## 8 -8.2 -0.2  
## 9 -8.2 -0.6  
## 10 -7.6 -1.2  
## 11 -9.4 6.2  
## 12 -6.6 0.0  
## 13 -9.6 3.0  
## 14 -7.2 -8.8  
## 15 -7.2 0.0  
## 16 -7.0 5.2  
## 17 4.8 -5.8  
## 18 0.0 0.0  
## 19 4.6 -11.8  
## 20 -0.8 -17.4  
## 21 -1.4 -12.0  
## 22 -8.0 -6.8  
## 23 -10.0 -4.8  
## 24 9.2 -9.6  
## 25 4.8 -13.4  
## 26 -7.6 -5.8  
## 27 -6.4 -4.4  
## 28 -3.8 6.8  
## 29 -0.2 0.0  
## 30 -1.2 -11.2  
## 31 -2.4 16.4  
## 32 -2.2 6.0  
## 33 -2.8 -4.0  
## 34 -5.2 5.4  
## 35 1.2 0.0  
## 36 1.4 3.6  
## 37 -6.8 8.8  
## 38 5.4 -1.2  
## 39 -13.0 29.8  
## 40 -39.8 -46.0  
## 41 -8.8 -2.8  
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## 43 4.2 -5.8  
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## 49 4.6 -4.4  
## 50 5.6 -2.4  
## 51 3.8 -3.2  
## 52 4.2 -5.2  
## 53 -2.0 -0.4  
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## 56 7.2 -2.0  
## 57 -0.4 -4.8  
## 58 2.4 -4.8  
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## 63 -0.8 2.6  
## 64 -19.0 30.8  
## 65 -18.0 -18.4  
## 66 -9.2 3.6  
## 67 0.0 -2.0  
## 68 -19.6 24.6  
## 69 19.6 4.2  
## 70 11.4 4.4  
## 71 0.4 -7.0  
## 72 -31.6 34.0  
## 73 1.8 3.8  
## 74 6.0 0.6  
## 75 -1.2 -5.2  
## 76 4.2 7.0  
## 77 0.2 0.0  
## 78 6.4 0.4  
## 79 -5.0 6.0  
## 80 -6.8 0.0  
## 81 3.8 -6.2  
## 82 -2.0 3.6  
## 83 -1.2 -2.2  
## 84 -0.2 3.0  
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## 96 6.6 -8.0  
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## 102 2.4 3.0  
## 103 -4.0 7.6  
## 104 1.8 2.8  
## 105 3.2 1.4  
## 106 0.2 -4.2  
## 107 -2.4 1.6  
## 108 5.2 2.8  
## 109 2.4 2.4  
## 110 -1.0 -0.6  
## 111 -5.6 0.6  
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## 113 -0.2 -1.6  
## 114 3.8 -1.8  
## 115 0.2 -8.8  
## 116 8.2 -4.2  
## 117 -0.4 5.0  
## 118 2.2 1.6  
## 119 -2.4 3.6  
## 120 -0.2 0.8  
## 121 -2.6 0.8  
## 122 -1.2 2.0  
## 123 -3.6 -4.0  
## 124 1.6 -2.0  
## 125 -1.8 -1.6  
## 126 1.6 -0.6  
## 127 0.8 -2.0  
## 128 -1.2 1.6  
## 129 -1.6 -3.0  
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## 131 -6.2 0.6  
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## 135 4.0 -4.8  
## 136 8.6 -15.2  
## 137 0.8 0.0  
## 138 -0.2 1.6  
## 139 -6.0 -1.2  
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## 141 -21.2 10.2  
## 142 -14.0 -7.8  
## 143 6.4 -1.2  
## 144 -4.2 -4.0  
## 145 -3.0 3.2  
## 146 -7.0 4.2  
## 147 0.2 -1.8  
## 148 16.8 -4.6  
## 149 -0.6 5.0  
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## 151 69.4 100.4  
## 152 -10.0 1.4  
## 153 6.2 51.8  
## 154 3.2 0.4  
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## 156 -4.4 6.0  
## 157 3.2 -2.8  
## 158 4.0 -6.4  
## 159 -5.6 3.2  
## 160 7.4 -7.6  
## 161 -11.0 7.2  
## 162 0.0 7.2  
## 163 3.6 1.2  
## 164 2.2 -0.2  
## 165 2.8 2.0  
## 166 1.4 -0.8  
## 167 -0.4 1.6  
## 168 5.0 0.8  
## 169 -2.8 5.0  
## 170 -1.2 5.8  
## 171 -12.6 -1.4  
## 172 0.8 -1.4  
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## 179 -1.4 2.0  
## 180 -0.2 1.8  
## 181 -9.0 15.8  
## 182 0.0 0.0  
## 183 -1.0 0.0  
## 184 8.6 2.4  
## 185 -5.6 13.8  
## 186 -7.8 1.6  
## 187 2.2 0.6  
## 188 3.0 -1.0  
## 189 -7.2 11.0  
## 190 -4.6 -5.8  
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## 192 -2.2 17.0  
## 193 -10.6 9.2  
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## 195 1.6 7.0  
## 196 -1.2 0.8  
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## 198 -0.6 3.0  
## 199 0.8 -0.6  
## 200 0.2 3.8  
## 201 -1.0 7.2  
## 202 1.4 -2.4  
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## 204 -1.8 1.6  
## 205 3.8 -0.6  
## 206 -2.8 6.2  
## 207 7.8 -2.2  
## 208 1.6 4.0  
## 209 7.0 -6.6  
## 210 3.8 1.0  
## 211 3.2 6.4  
## 212 7.0 1.2  
## 213 4.0 4.8  
## 214 -0.2 0.0  
## 215 5.4 -3.4  
## 216 -0.8 2.0  
## 217 4.4 1.8  
## 218 2.2 -2.6  
## 219 -3.2 2.2  
## 220 9.4 2.8  
## 221 4.2 10.2  
## 222 0.0 0.0  
## 223 7.6 0.0  
## 224 7.6 0.0  
## 225 -0.6 -1.0  
## 226 7.8 -0.4  
## 227 0.6 12.4  
## 228 0.0 -2.2  
## 229 10.8 -12.0  
## 230 -2.4 1.0  
## 231 -2.0 3.2  
## 232 5.8 6.2  
## 233 -0.6 8.2  
## 234 3.0 -6.0  
## 235 16.0 4.8  
## 236 -5.4 -3.6  
## 237 10.0 4.6  
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## 239 2.8 -1.4  
## 240 -9.2 10.6  
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## 242 2.2 -2.6  
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## 244 5.4 1.6  
## 245 4.4 6.0  
## 246 5.2 -1.6  
## 247 -1.0 3.8  
## 248 0.4 5.6  
## 249 -1.6 5.2  
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## 251 4.2 6.0  
## 252 1.0 3.8  
## 253 3.2 1.0  
## 254 3.2 -0.2  
## 255 -2.4 11.6  
## 256 3.2 -2.6  
## 257 -5.8 10.2  
## 258 -1.2 6.4  
## 259 -3.8 -3.6  
## 260 5.2 4.0  
## 261 -1.4 6.0  
## 262 0.0 -3.6  
## 263 3.8 5.4  
## 264 -3.6 4.0  
## 265 -2.4 0.0  
## 266 0.4 2.8  
## 267 0.2 0.0  
## 268 7.0 2.6  
## 269 11.6 -0.6  
## 270 6.6 2.2  
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## 272 -12.6 6.8  
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## 274 -10.8 0.4  
## 275 -11.6 3.4  
## 276 -10.0 14.4  
## 277 5.0 3.0  
## 278 3.0 1.0  
## 279 -9.0 3.2  
## 280 -11.0 3.4  
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## 286 0.2 1.0  
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## 289 -9.4 1.4  
## 290 -12.4 1.0  
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## 292 -4.8 7.8  
## 293 11.8 9.6  
## 294 2.2 -6.4  
## 295 -0.6 0.0  
## 296 -0.4 -18.6  
## 297 6.8 -7.6  
## 298 37.2 -7.2  
## 299 -3.8 -1.4  
## 300 2.4 8.4  
## 301 6.8 -2.2  
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## 303 -6.6 -1.6  
## 304 -14.2 -0.2  
## 305 0.2 -5.2  
## 306 0.0 2.4  
## 307 0.2 0.4  
## 308 -5.0 0.0  
## 309 -2.2 -0.4  
## 310 2.6 -2.2  
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## 312 5.4 -13.2  
## 313 -6.2 6.4  
## 314 6.0 -6.4  
## 315 -6.6 6.6  
## 316 4.0 -7.2  
## 317 -6.6 8.6  
## 318 2.8 -7.2  
## 319 -21.2 13.6  
## 320 18.4 -21.4  
## 321 -6.6 16.8  
## 322 6.0 -6.6  
## 323 -20.0 14.0  
## 324 9.4 -18.4  
## 325 -15.8 12.2  
## 326 10.4 -15.2  
## 327 -11.6 9.8  
## 328 8.4 -11.8  
## 329 -10.0 7.2  
## 330 11.4 -9.6  
## 331 -7.8 13.4  
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## 333 0.0 2.6  
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## 335 2.6 -0.2  
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## 337 2.6 -4.8  
## 338 -6.4 -5.6  
## 339 -94.0 46.8  
## 340 29.2 -23.4  
## 341 -6.2 7.0  
## 342 3.6 -1.0  
## 343 -99.6 114.6  
## 344 -4.4 -10.2  
## 345 NA NA  
## 346 26.0 -21.4  
## 347 -3.4 -2.6  
## 348 4.0 -10.0  
## 349 -6.4 5.0  
## 350 -10.6 3.6  
## 351 -0.4 -1.8  
## 352 -10.2 11.8  
## 353 -13.4 24.0  
## 354 -18.4 35.2  
## 355 12.4 1.0  
## 356 4.2 7.6  
## 357 -2.2 18.0  
## 358 1.0 6.0  
## 359 -7.2 4.8  
## 360 -0.8 1.6  
## 361 1.4 0.8  
## 362 0.0 0.0  
## 363 4.4 -11.8  
## 364 -9.8 3.0  
## 365 -24.6 10.0  
## 366 55.4 4.6  
## 367 0.2 3.8  
## 368 -10.0 0.0  
## 369 0.8 -2.6  
## 370 -29.8 0.8  
## 371 9.4 -19.0  
## 372 4.4 -11.4  
## 373 3.0 3.0  
## 374 8.8 -13.6  
## 375 9.6 -5.0  
## 376 1.2 -9.8  
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## 378 10.6 -5.0  
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## 380 9.6 -9.2  
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## 382 0.8 -0.2  
## 383 5.6 -12.4  
## 384 2.6 -0.4  
## 385 4.0 -1.6  
## 386 7.6 -3.4  
## 387 -7.2 0.4  
## 388 5.6 -6.0  
## 389 0.4 -4.0  
## 390 2.8 1.4  
## 391 1.8 3.0  
## 392 0.8 -6.2  
## 393 0.8 4.4  
## 394 -20.0 -25.8  
## 395 0.0 0.0  
## 396 -0.2 -8.4  
## 397 -2.2 0.4  
## 398 8.0 -7.8  
## 399 0.4 9.4  
## 400 -2.2 0.4  
## 401 -2.0 -1.4  
## 402 -0.2 5.0  
## 403 1.2 -0.8  
## 404 -5.2 3.2  
## 405 5.6 -3.2  
## 406 7.2 -11.4  
## 407 0.2 0.0  
## 408 -5.6 2.6  
## 409 2.8 -7.6  
## 410 -11.2 -2.6  
## 411 -0.2 -27.2  
## 412 17.0 3.8  
## 413 -2.4 -0.8  
## 414 5.8 -6.2  
## 415 -9.8 -0.4  
## 416 7.0 -2.8  
## 417 2.4 3.2  
## 418 -23.4 14.4  
## 419 -5.4 3.0  
## 420 -4.4 4.4  
## 421 77.8 19.6  
## 422 -0.8 -2.0  
## 423 67.2 12.8  
## 424 -2.8 3.6  
## 425 -1.2 5.6  
## 426 -9.0 14.0  
## 427 -4.2 -5.2  
## 428 9.2 -8.8  
## 429 14.4 -6.4  
## 430 17.4 -4.8  
## 431 -1.2 15.0  
## 432 8.8 0.4  
## 433 11.4 0.8  
## 434 1.6 1.8  
## 435 10.0 4.2  
## 436 0.2 0.0  
## 437 0.4 -13.6  
## 438 18.0 15.0  
## 439 14.6 -8.2  
## 440 -19.0 21.4  
## 441 -14.6 -8.8  
## 442 0.8 7.8  
## 443 4.4 -3.2  
## 444 0.8 4.8  
## 445 4.0 1.0  
## 446 2.4 0.8  
## 447 2.0 1.0  
## 448 -1.4 -0.8  
## 449 -13.8 1.0  
## 450 3.2 -1.0  
## 451 -6.4 14.6  
## 452 8.6 -10.0  
## 453 -2.4 0.0  
## 454 5.8 -6.8  
## 455 -1.0 4.0  
## 456 -2.0 0.8  
## 457 4.0 -7.6  
## 458 -2.6 1.0  
## 459 -6.2 7.2  
## 460 -1.4 0.2  
## 461 15.4 -5.6  
## 462 -8.0 4.4  
## 463 -3.4 -10.0  
## 464 0.4 6.8  
## 465 -3.6 3.4  
## 466 4.0 -5.0  
## 467 -3.2 7.0  
## altitude\_change\_past\_120\_to\_180\_seconds  
## 1 4.6  
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## 3 -0.4  
## 4 4.8  
## 5 1.8  
## 6 -3.4  
## 7 -0.4  
## 8 7.2  
## 9 4.6  
## 10 8.4  
## 11 2.8  
## 12 8.4  
## 13 5.8  
## 14 14.4  
## 15 14.0  
## 16 6.0  
## 17 10.0  
## 18 0.0  
## 19 11.4  
## 20 5.2  
## 21 9.4  
## 22 8.4  
## 23 -0.2  
## 24 -5.4  
## 25 3.6  
## 26 2.4  
## 27 0.4  
## 28 -0.2  
## 29 0.0  
## 30 17.0  
## 31 4.8  
## 32 -2.8  
## 33 2.8  
## 34 -4.6  
## 35 -25.4  
## 36 -2.2  
## 37 -0.8  
## 38 15.8  
## 39 -13.4  
## 40 45.8  
## 41 9.2  
## 42 7.4  
## 43 -2.6  
## 44 -1.6  
## 45 0.0  
## 46 -5.2  
## 47 -5.0  
## 48 -3.0  
## 49 5.0  
## 50 -7.2  
## 51 0.0  
## 52 0.4  
## 53 -1.0  
## 54 -0.2  
## 55 -6.8  
## 56 -1.8  
## 57 3.6  
## 58 -2.8  
## 59 8.0  
## 60 2.8  
## 61 -1.6  
## 62 0.0  
## 63 2.4  
## 64 -34.4  
## 65 46.2  
## 66 17.4  
## 67 13.4  
## 68 -5.0  
## 69 -3.0  
## 70 -5.4  
## 71 0.8  
## 72 -1.4  
## 73 -3.6  
## 74 -7.4  
## 75 4.0  
## 76 -2.2  
## 77 -0.4  
## 78 0.0  
## 79 0.6  
## 80 -0.6  
## 81 0.4  
## 82 -0.8  
## 83 4.0  
## 84 -2.6  
## 85 3.2  
## 86 -1.6  
## 87 -2.6  
## 88 4.8  
## 89 4.2  
## 90 -3.2  
## 91 1.0  
## 92 3.0  
## 93 0.2  
## 94 -6.4  
## 95 -4.6  
## 96 6.4  
## 97 4.8  
## 98 -7.4  
## 99 -0.8  
## 100 4.2  
## 101 3.2  
## 102 -5.8  
## 103 -5.6  
## 104 -1.2  
## 105 4.0  
## 106 7.8  
## 107 2.8  
## 108 0.6  
## 109 3.0  
## 110 -3.8  
## 111 2.2  
## 112 2.6  
## 113 2.0  
## 114 -2.4  
## 115 5.0  
## 116 0.2  
## 117 -1.6  
## 118 -6.8  
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## 122 -0.4  
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## 138 0.4  
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## 159 -6.2  
## 160 2.2  
## 161 -7.4  
## 162 -9.0  
## 163 -4.4  
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## 165 0.6  
## 166 0.2  
## 167 -1.0  
## 168 -1.0  
## 169 0.8  
## 170 -2.6  
## 171 5.8  
## 172 1.8  
## 173 -1.4  
## 174 -6.8  
## 175 3.4  
## 176 3.0  
## 177 -1.0  
## 178 0.0  
## 179 -7.2  
## 180 -6.2  
## 181 -2.2  
## 182 0.0  
## 183 0.0  
## 184 -18.6  
## 185 -6.8  
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## 187 -3.0  
## 188 5.8  
## 189 -17.0  
## 190 7.0  
## 191 17.8  
## 192 45.2  
## 193 -11.0  
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## 198 4.0  
## 199 0.8  
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## 201 0.6  
## 202 4.0  
## 203 -5.0  
## 204 -2.0  
## 205 2.2  
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## 207 -2.6  
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## 209 -0.8  
## 210 -1.8  
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## 109 1.8  
## 110 7.6  
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## 356 -1.6  
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## 383 -0.2  
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## 385 -0.4  
## 386 14.4  
## 387 -3.6  
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## 389 -6.0  
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## 392 4.0  
## 393 9.0  
## 394 0.0  
## 395 14.8  
## 396 0.0  
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## 399 8.2  
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## 404 -2.8  
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## 7 -23.6  
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## 17 -9.8  
## 18 0.0  
## 19 0.0  
## 20 15.8  
## 21 0.4  
## 22 13.2  
## 23 6.2  
## 24 1.2  
## 25 7.0  
## 26 9.4  
## 27 9.6  
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## 29 0.0  
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## 35 0.0  
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## 38 -25.6  
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## 40 6.8  
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## 43 -15.4  
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## 49 2.4  
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## 52 0.0  
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## 57 -0.4  
## 58 -2.0  
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## 62 1.2  
## 63 4.8  
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## 309 -6.0  
## 310 2.4  
## 311 4.4  
## 312 -4.8  
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## 317 3.2  
## 318 -5.8  
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## 320 -3.2  
## 321 7.0  
## 322 -3.0  
## 323 5.6  
## 324 -4.4  
## 325 15.4  
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## 327 22.2  
## 328 -12.2  
## 329 12.8  
## 330 -19.4  
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## 332 7.8  
## 333 -7.8  
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## 350 -6.0  
## 351 -9.4  
## 352 3.2  
## 353 0.6  
## 354 1.4  
## 355 0.8  
## 356 -4.8  
## 357 -9.2  
## 358 10.2  
## 359 18.8  
## 360 8.0  
## 361 -5.4  
## 362 0.0  
## 363 -11.2  
## 364 9.6  
## 365 0.0  
## 366 10.8  
## 367 0.0  
## 368 -1.0  
## 369 -15.0  
## 370 2.8  
## 371 5.6  
## 372 -10.8  
## 373 -12.0  
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## 376 1.2  
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## 380 2.2  
## 381 3.4  
## 382 0.8  
## 383 -18.4  
## 384 -0.6  
## 385 -9.2  
## 386 6.8  
## 387 3.0  
## 388 -1.8  
## 389 4.4  
## 390 11.0  
## 391 -0.8  
## 392 7.2  
## 393 -3.6  
## 394 0.0  
## 395 0.0  
## 396 -2.0  
## 397 8.8  
## 398 0.0  
## 399 0.0  
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## 414 -2.2  
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## 416 -5.2  
## 417 5.4  
## 418 1.6  
## 419 3.8  
## 420 0.2  
## 421 0.0  
## 422 -22.0  
## 423 9.4  
## 424 4.2  
## 425 18.2  
## 426 -7.0  
## 427 0.0  
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## 429 -3.2  
## 430 13.8  
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## 432 -5.4  
## 433 -1.2  
## 434 -5.2  
## 435 1.2  
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## 437 0.2  
## 438 0.4  
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## 440 -2.0  
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## 442 -9.2  
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## 444 0.0  
## 445 0.0  
## 446 0.0  
## 447 0.0  
## 448 0.2  
## 449 -7.2  
## 450 -0.8  
## 451 2.8  
## 452 7.2  
## 453 0.4  
## 454 2.2  
## 455 2.0  
## 456 -1.2  
## 457 -7.6  
## 458 12.0  
## 459 -0.2  
## 460 8.0  
## 461 2.2  
## 462 6.4  
## 463 -2.2  
## 464 -3.6  
## 465 3.6  
## 466 5.0  
## 467 -7.4  
## altitude\_change\_past\_540\_to\_600\_seconds  
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## 3 0.8  
## 4 0.0  
## 5 2.8  
## 6 1.2  
## 7 0.0  
## 8 20.2  
## 9 -1.2  
## 10 9.0  
## 11 -5.6  
## 12 -0.6  
## 13 -0.2  
## 14 -5.4  
## 15 -5.2  
## 16 -12.2  
## 17 -14.0  
## 18 0.0  
## 19 0.0  
## 20 0.0  
## 21 0.0  
## 22 17.4  
## 23 1.8  
## 24 14.8  
## 25 11.8  
## 26 -3.0  
## 27 -6.8  
## 28 -0.4  
## 29 6.6  
## 30 0.0  
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## 32 1.2  
## 33 3.4  
## 34 3.4  
## 35 5.6  
## 36 1.4  
## 37 1.8  
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## 41 18.6  
## 42 9.8  
## 43 0.0  
## 44 0.0  
## 45 0.0  
## 46 -4.6  
## 47 -3.8  
## 48 -2.2  
## 49 -1.2  
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## 52 -9.8  
## 53 0.0  
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## 67 18.6  
## 68 -6.2  
## 69 0.0  
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## 71 0.0  
## 72 -0.8  
## 73 17.2  
## 74 -1.6  
## 75 0.0  
## 76 0.0  
## 77 -4.6  
## 78 -5.4  
## 79 -2.2  
## 80 -10.4  
## 81 14.2  
## 82 -1.4  
## 83 -1.4  
## 84 0.0  
## 85 0.0  
## 86 6.6  
## 87 5.0  
## 88 -3.6  
## 89 -4.2  
## 90 -3.6  
## 91 -9.6  
## 92 0.4  
## 93 7.2  
## 94 3.2  
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## 96 -3.6  
## 97 -1.0  
## 98 0.4  
## 99 -4.0  
## 100 1.4  
## 101 3.0  
## 102 5.4  
## 103 0.8  
## 104 -3.4  
## 105 -2.8  
## 106 3.0  
## 107 8.8  
## 108 3.2  
## 109 -1.0  
## 110 -0.8  
## 111 -7.6  
## 112 -6.4  
## 113 -5.6  
## 114 -0.4  
## 115 9.4  
## 116 5.8  
## 117 6.4  
## 118 1.6  
## 119 -7.0  
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## 121 -2.2  
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## 131 7.6  
## 132 2.8  
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## 166 -6.2  
## 167 5.8  
## 168 -0.4  
## 169 2.8  
## 170 4.6  
## 171 -8.4  
## 172 4.2  
## 173 -8.8  
## 174 -4.4  
## 175 1.2  
## 176 0.6  
## 177 -1.0  
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## 204 0.6  
## 205 5.6  
## 206 -4.4  
## 207 4.2  
## 208 2.2  
## 209 -5.8  
## 210 1.4  
## 211 -0.8  
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## 213 -1.0  
## 214 1.0  
## 215 0.0  
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## 220 1.4  
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## 224 0.2  
## 225 -0.6  
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## 227 0.0  
## 228 -5.8  
## 229 -0.6  
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## 231 2.8  
## 232 -0.6  
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## 234 -4.2  
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## 236 3.4  
## 237 0.0  
## 238 3.0  
## 239 6.0  
## 240 1.6  
## 241 -13.2  
## 242 9.4  
## 243 0.0  
## 244 -1.4  
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## 246 -3.2  
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## 248 0.0  
## 249 0.0  
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## 253 -4.8  
## 254 -3.6  
## 255 -2.2  
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## 258 1.6  
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## 260 -1.4  
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## 262 0.2  
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## 264 -0.8  
## 265 -4.6  
## 266 -0.2  
## 267 -6.0  
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## 269 0.0  
## 270 14.4  
## 271 2.2  
## 272 -9.8  
## 273 0.0  
## 274 0.0  
## 275 0.0  
## 276 0.0  
## 277 -12.8  
## 278 -9.2  
## 279 -9.6  
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## 283 -11.2  
## 284 -13.0  
## 285 -21.8  
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## 289 0.0  
## 290 -12.8  
## 291 -13.0  
## 292 -5.2  
## 293 0.0  
## 294 14.0  
## 295 0.0  
## 296 0.0  
## 297 -17.4  
## 298 3.6  
## 299 0.0  
## 300 0.0  
## 301 -23.0  
## 302 3.6  
## 303 -3.0  
## 304 0.0  
## 305 -21.6  
## 306 0.0  
## 307 0.0  
## 308 -0.2  
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## 310 -6.0  
## 311 1.8  
## 312 4.0  
## 313 2.4  
## 314 0.0  
## 315 0.4  
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## 317 -2.2  
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## 319 -13.0  
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## 321 -6.4  
## 322 7.0  
## 323 -7.4  
## 324 6.4  
## 325 -9.2  
## 326 16.6  
## 327 -21.2  
## 328 22.2  
## 329 -1.6  
## 330 12.8  
## 331 -19.2  
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## 342 -4.4  
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## 351 -0.4  
## 352 -9.8  
## 353 -6.4  
## 354 1.0  
## 355 4.4  
## 356 1.6  
## 357 5.2  
## 358 3.4  
## 359 -4.8  
## 360 0.8  
## 361 13.2  
## 362 0.0  
## 363 4.6  
## 364 -24.6  
## 365 0.0  
## 366 9.4  
## 367 0.0  
## 368 6.6  
## 369 3.6  
## 370 -7.2  
## 371 -4.6  
## 372 -2.2  
## 373 -6.2  
## 374 4.4  
## 375 -6.2  
## 376 -11.2  
## 377 0.0  
## 378 -7.8  
## 379 -14.6  
## 380 6.6  
## 381 -5.8  
## 382 -1.0  
## 383 5.6  
## 384 -12.2  
## 385 1.2  
## 386 -6.0  
## 387 4.4  
## 388 2.0  
## 389 -11.0  
## 390 -9.8  
## 391 -2.6  
## 392 -3.4  
## 393 9.8  
## 394 0.0  
## 395 0.0  
## 396 -6.2  
## 397 -5.0  
## 398 4.2  
## 399 0.0  
## 400 -5.2  
## 401 -1.6  
## 402 -7.2  
## 403 6.4  
## 404 1.0  
## 405 -3.4  
## 406 4.0  
## 407 0.0  
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## 409 -4.8  
## 410 5.8  
## 411 0.0  
## 412 -43.6  
## 413 9.6  
## 414 -3.0  
## 415 0.0  
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## 417 -2.0  
## 418 2.8  
## 419 -1.6  
## 420 -3.8  
## 421 0.0  
## 422 -43.4  
## 423 2.8  
## 424 6.8  
## 425 -9.6  
## 426 6.4  
## 427 -2.4  
## 428 1.8  
## 429 -5.6  
## 430 -4.2  
## 431 -15.6  
## 432 7.8  
## 433 14.4  
## 434 -7.8  
## 435 2.2  
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## 437 0.0  
## 438 -13.6  
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## 441 0.0  
## 442 11.2  
## 443 23.2  
## 444 0.0  
## 445 0.0  
## 446 0.0  
## 447 0.0  
## 448 0.0  
## 449 -3.4  
## 450 -15.0  
## 451 -2.0  
## 452 -1.4  
## 453 -0.2  
## 454 1.0  
## 455 1.0  
## 456 -1.2  
## 457 2.0  
## 458 -5.6  
## 459 4.4  
## 460 -9.8  
## 461 -3.6  
## 462 -4.0  
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## 464 -3.4  
## 465 -3.8  
## 466 4.8  
## 467 6.8  
## altitude\_change\_past\_600\_to\_660\_seconds  
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## 3 -5.2  
## 4 0.0  
## 5 0.6  
## 6 13.2  
## 7 0.0  
## 8 -49.8  
## 9 -0.6  
## 10 -0.2  
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## 12 4.6  
## 13 7.2  
## 14 7.8  
## 15 7.4  
## 16 16.4  
## 17 16.6  
## 18 0.0  
## 19 0.0  
## 20 0.0  
## 21 0.0  
## 22 0.0  
## 23 -2.6  
## 24 -4.6  
## 25 -4.6  
## 26 12.2  
## 27 5.2  
## 28 9.0  
## 29 -4.6  
## 30 0.0  
## 31 -5.8  
## 32 -5.2  
## 33 -6.0  
## 34 2.4  
## 35 -5.8  
## 36 0.2  
## 37 -4.2  
## 38 -0.6  
## 39 15.6  
## 40 0.0  
## 41 0.2  
## 42 1.0  
## 43 0.0  
## 44 0.0  
## 45 0.0  
## 46 1.4  
## 47 -1.4  
## 48 -9.8  
## 49 -3.8  
## 50 -4.2  
## 51 -8.2  
## 52 4.6  
## 53 0.0  
## 54 0.0  
## 55 0.0  
## 56 -63.2  
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## 58 2.6  
## 59 -4.8  
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## 62 0.0  
## 63 -4.0  
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## 72 -3.0  
## 73 -1.8  
## 74 1.8  
## 75 0.0  
## 76 0.0  
## 77 0.0  
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## 79 -4.8  
## 80 5.4  
## 81 -11.4  
## 82 16.2  
## 83 -1.2  
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## 86 0.0  
## 87 0.0  
## 88 7.4  
## 89 5.8  
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## 93 -6.8  
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## 95 2.8  
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## 107 -3.4  
## 108 -3.4  
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## 111 5.6  
## 112 1.4  
## 113 -1.8  
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## 115 -7.6  
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## 117 -6.0  
## 118 7.0  
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## 121 4.8  
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## 168 0.4  
## 169 -0.2  
## 170 -6.6  
## 171 4.6  
## 172 -5.8  
## 173 3.4  
## 174 11.8  
## 175 -4.4  
## 176 5.6  
## 177 -0.2  
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## 179 0.0  
## 180 0.0  
## 181 0.0  
## 182 0.0  
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## 186 0.0  
## 187 3.0  
## 188 10.2  
## 189 -2.2  
## 190 17.8  
## 191 8.8  
## 192 0.0  
## 193 5.2  
## 194 0.0  
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## 197 -8.0  
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## 199 0.0  
## 200 4.2  
## 201 -7.8  
## 202 2.0  
## 203 -2.0  
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## 205 -0.2  
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## 208 -1.0  
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## 210 -1.8  
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## 213 -6.2  
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## 219 -8.6  
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## 227 0.0  
## 228 0.0  
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## 231 5.6  
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## 234 -5.4  
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## 236 -1.2  
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## 238 -6.4  
## 239 -6.2  
## 240 11.2  
## 241 13.8  
## 242 -0.4  
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## 244 0.0  
## 245 -2.8  
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## 247 2.2  
## 248 -8.0  
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## 280 7.6  
## 281 5.8  
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## 283 4.2  
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## 285 10.0  
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## 287 -1.4  
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## 289 0.0  
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## 291 3.2  
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## 293 0.0  
## 294 9.6  
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## 296 0.0  
## 297 11.4  
## 298 -13.8  
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## 301 -1.2  
## 302 -0.8  
## 303 0.6  
## 304 0.0  
## 305 0.8  
## 306 0.0  
## 307 0.0  
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## 314 2.4  
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## 316 0.4  
## 317 -2.2  
## 318 -1.8  
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## 330 -1.6  
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## 333 6.2  
## 334 -7.4  
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## 337 -3.8  
## 338 -1.0  
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## 341 0.0  
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## 346 0.0  
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## 351 13.4  
## 352 -2.6  
## 353 -6.2  
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## 357 3.4  
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## 359 1.6  
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## 379 18.8  
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## 390 -2.8  
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## 454 5.2  
## 455 0.8  
## 456 1.6  
## 457 2.4  
## 458 0.0  
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## 461 1.8  
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## 464 6.0  
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## 9 -13.8  
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## 18 -9.0  
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## 219 7.4  
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## 229 -8.2  
## 230 0.8  
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## 233 0.6  
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## 235 1.2  
## 236 -0.8  
## 237 0.0  
## 238 -4.0  
## 239 5.6  
## 240 -7.8  
## 241 -8.6  
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## 370 -0.6  
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## 380 2.2  
## 381 6.2  
## 382 10.8  
## 383 -1.0  
## 384 2.6  
## 385 -12.4  
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## 387 -6.8  
## 388 6.0  
## 389 2.0  
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## 391 -9.2  
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## 395 15.2  
## 396 0.0  
## 397 0.0  
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## 403 8.6  
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## 414 32.4  
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## 416 -5.8  
## 417 3.6  
## 418 5.8  
## 419 5.4  
## 420 11.0  
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## 423 -4.6  
## 424 -6.6  
## 425 -2.6  
## 426 -7.2  
## 427 -4.8  
## 428 5.0  
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## 431 15.8  
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## 433 -15.4  
## 434 -7.0  
## 435 -2.4  
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## 437 0.0  
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## 442 0.0  
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## 456 1.2  
## 457 -0.4  
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## 464 -4.4  
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## 6 5.4  
## 7 0.0  
## 8 0.0  
## 9 33.4  
## 10 -6.2  
## 11 8.6  
## 12 3.6  
## 13 -6.6  
## 14 -2.6  
## 15 -1.8  
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## 17 -1.4  
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## 23 0.0  
## 24 4.8  
## 25 0.0  
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## 27 -0.2  
## 28 -4.8  
## 29 -2.0  
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## 31 -8.6  
## 32 -14.8  
## 33 -3.2  
## 34 -6.2  
## 35 -3.8  
## 36 3.8  
## 37 4.0  
## 38 -5.0  
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## 53 -1.2  
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## 55 0.0  
## 56 0.0  
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## 74 2.2  
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## 210 2.4  
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## 379 -7.0  
## 380 -12.2  
## 381 -6.6  
## 382 -12.4  
## 383 -6.4  
## 384 -5.0  
## 385 8.4  
## 386 2.6  
## 387 8.2  
## 388 -4.2  
## 389 4.4  
## 390 4.0  
## 391 -3.4  
## 392 -14.0  
## 393 4.8  
## 394 0.0  
## 395 0.4  
## 396 0.0  
## 397 0.0  
## 398 -2.8  
## 399 10.6  
## 400 0.0  
## 401 0.0  
## 402 -4.8  
## 403 -3.2  
## 404 6.8  
## 405 3.6  
## 406 -0.6  
## 407 0.0  
## 408 0.0  
## 409 3.0  
## 410 0.2  
## 411 0.0  
## 412 6.0  
## 413 0.4  
## 414 -9.8  
## 415 0.0  
## 416 -3.2  
## 417 -17.2  
## 418 2.4  
## 419 -12.8  
## 420 8.8  
## 421 0.0  
## 422 -13.4  
## 423 44.2  
## 424 9.2  
## 425 5.8  
## 426 -13.4  
## 427 -3.8  
## 428 -4.2  
## 429 0.0  
## 430 -18.6  
## 431 -6.8  
## 432 2.6  
## 433 0.8  
## 434 -0.2  
## 435 -7.0  
## 436 0.0  
## 437 0.0  
## 438 3.6  
## 439 13.8  
## 440 -0.2  
## 441 0.0  
## 442 0.0  
## 443 -5.6  
## 444 -13.0  
## 445 -6.0  
## 446 -4.4  
## 447 0.0  
## 448 0.0  
## 449 0.0  
## 450 0.0  
## 451 0.0  
## 452 -0.4  
## 453 -4.2  
## 454 -0.8  
## 455 5.6  
## 456 6.0  
## 457 1.6  
## 458 2.2  
## 459 2.8  
## 460 -0.2  
## 461 -5.4  
## 462 15.2  
## 463 3.2  
## 464 7.4  
## 465 3.4  
## 466 5.6  
## 467 -2.4  
## altitude\_change\_past\_780\_to\_840\_seconds  
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## 2 -25.6  
## 3 0.0  
## 4 0.0  
## 5 -40.2  
## 6 -1.0  
## 7 0.0  
## 8 0.0  
## 9 -72.0  
## 10 -7.4  
## 11 -1.0  
## 12 0.0  
## 13 -5.8  
## 14 -2.2  
## 15 0.2  
## 16 -4.2  
## 17 -4.8  
## 18 -11.0  
## 19 0.0  
## 20 0.0  
## 21 0.0  
## 22 0.0  
## 23 0.0  
## 24 -11.8  
## 25 -16.4  
## 26 -7.0  
## 27 2.6  
## 28 -0.2  
## 29 -8.6  
## 30 0.0  
## 31 0.8  
## 32 12.6  
## 33 6.8  
## 34 2.2  
## 35 -4.4  
## 36 0.0  
## 37 -0.6  
## 38 2.8  
## 39 27.4  
## 40 0.0  
## 41 9.6  
## 42 -1.4  
## 43 0.0  
## 44 0.0  
## 45 0.0  
## 46 0.0  
## 47 0.0  
## 48 0.0  
## 49 0.0  
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## 51 0.0  
## 52 -12.0  
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## 62 -1.0  
## 63 0.2  
## 64 0.0  
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## 66 0.0  
## 67 0.0  
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## 71 0.0  
## 72 9.2  
## 73 3.4  
## 74 -14.8  
## 75 0.0  
## 76 0.0  
## 77 0.0  
## 78 0.0  
## 79 0.0  
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## 82 -5.2  
## 83 9.6  
## 84 -3.6  
## 85 5.6  
## 86 -1.2  
## 87 -1.4  
## 88 -0.8  
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## 92 0.0  
## 93 4.4  
## 94 4.4  
## 95 -1.0  
## 96 -3.8  
## 97 -1.8  
## 98 -10.0  
## 99 1.4  
## 100 8.0  
## 101 7.4  
## 102 2.6  
## 103 -4.2  
## 104 -3.4  
## 105 -2.0  
## 106 -3.8  
## 107 -0.6  
## 108 0.6  
## 109 3.6  
## 110 -1.0  
## 111 -4.2  
## 112 -2.0  
## 113 0.2  
## 114 2.8  
## 115 3.8  
## 116 5.8  
## 117 -0.6  
## 118 -3.2  
## 119 -1.6  
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## 121 9.0  
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## 127 -6.2  
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## 133 2.0  
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## 153 4.6  
## 154 71.8  
## 155 12.0  
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## 162 -1.2  
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## 167 0.0  
## 168 0.0  
## 169 0.0  
## 170 0.0  
## 171 -5.2  
## 172 -6.0  
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## 174 -1.4  
## 175 2.8  
## 176 4.6  
## 177 3.4  
## 178 5.8  
## 179 -1.8  
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## 185 0.0  
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## 189 7.2  
## 190 -1.2  
## 191 13.2  
## 192 0.0  
## 193 8.6  
## 194 0.0  
## 195 0.0  
## 196 0.0  
## 197 -4.8  
## 198 9.0  
## 199 0.0  
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## 201 0.0  
## 202 4.0  
## 203 -4.2  
## 204 2.8  
## 205 -0.2  
## 206 -2.0  
## 207 0.2  
## 208 5.2  
## 209 1.8  
## 210 -0.6  
## 211 2.2  
## 212 -4.2  
## 213 -2.0  
## 214 -0.8  
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## 216 -6.8  
## 217 2.2  
## 218 -2.6  
## 219 -6.8  
## 220 -4.4  
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## 223 0.0  
## 224 0.0  
## 225 0.0  
## 226 5.4  
## 227 0.0  
## 228 0.0  
## 229 16.6  
## 230 -1.6  
## 231 -3.2  
## 232 -6.2  
## 233 -2.6  
## 234 -2.8  
## 235 2.2  
## 236 -7.4  
## 237 0.0  
## 238 -2.0  
## 239 -7.8  
## 240 -9.8  
## 241 1.0  
## 242 12.2  
## 243 3.0  
## 244 0.0  
## 245 0.0  
## 246 0.0  
## 247 -2.4  
## 248 -0.2  
## 249 1.4  
## 250 -8.0  
## 251 0.0  
## 252 0.2  
## 253 6.4  
## 254 4.8  
## 255 5.2  
## 256 4.6  
## 257 4.0  
## 258 -1.8  
## 259 5.2  
## 260 7.2  
## 261 1.4  
## 262 4.0  
## 263 4.4  
## 264 -3.6  
## 265 10.2  
## 266 2.2  
## 267 4.6  
## 268 0.0  
## 269 0.0  
## 270 -6.0  
## 271 -9.2  
## 272 0.6  
## 273 0.0  
## 274 0.0  
## 275 0.0  
## 276 0.0  
## 277 0.0  
## 278 1.4  
## 279 2.6  
## 280 15.6  
## 281 8.2  
## 282 6.6  
## 283 4.8  
## 284 4.0  
## 285 -11.4  
## 286 9.4  
## 287 -16.0  
## 288 -0.2  
## 289 0.0  
## 290 12.4  
## 291 0.0  
## 292 -1.0  
## 293 0.0  
## 294 6.4  
## 295 0.0  
## 296 0.0  
## 297 2.6  
## 298 -3.4  
## 299 0.0  
## 300 0.0  
## 301 -10.0  
## 302 -0.4  
## 303 -5.6  
## 304 0.0  
## 305 0.0  
## 306 0.0  
## 307 0.0  
## 308 0.0  
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## 314 -0.6  
## 315 4.8  
## 316 0.0  
## 317 2.4  
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## 319 -1.6  
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## 321 2.4  
## 322 -1.2  
## 323 2.2  
## 324 -1.6  
## 325 2.2  
## 326 -5.0  
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## 328 -2.2  
## 329 0.4  
## 330 -9.2  
## 331 9.4  
## 332 5.4  
## 333 -14.4  
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## 335 5.0  
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## 337 -9.0  
## 338 -1.4  
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## 349 -4.0  
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## 352 -2.8  
## 353 -7.6  
## 354 -3.8  
## 355 -7.6  
## 356 2.0  
## 357 18.8  
## 358 8.8  
## 359 4.0  
## 360 -5.2  
## 361 -4.8  
## 362 9.6  
## 363 0.0  
## 364 4.8  
## 365 0.0  
## 366 -31.0  
## 367 0.0  
## 368 8.8  
## 369 -11.0  
## 370 -2.2  
## 371 51.8  
## 372 7.6  
## 373 -18.6  
## 374 -0.6  
## 375 6.8  
## 376 9.4  
## 377 0.0  
## 378 10.6  
## 379 4.8  
## 380 -3.2  
## 381 4.2  
## 382 8.8  
## 383 10.8  
## 384 -4.8  
## 385 3.0  
## 386 -0.8  
## 387 -13.4  
## 388 5.6  
## 389 6.0  
## 390 9.2  
## 391 -0.6  
## 392 -0.2  
## 393 -6.4  
## 394 0.0  
## 395 5.0  
## 396 0.0  
## 397 0.0  
## 398 -5.2  
## 399 -1.8  
## 400 4.0  
## 401 0.0  
## 402 -4.4  
## 403 0.6  
## 404 -7.8  
## 405 4.8  
## 406 1.0  
## 407 0.0  
## 408 0.0  
## 409 -4.0  
## 410 7.6  
## 411 0.0  
## 412 -20.0  
## 413 -11.0  
## 414 -0.4  
## 415 0.0  
## 416 -15.4  
## 417 8.6  
## 418 -3.6  
## 419 -0.4  
## 420 -8.0  
## 421 0.0  
## 422 0.0  
## 423 61.4  
## 424 -15.0  
## 425 63.6  
## 426 8.4  
## 427 1.4  
## 428 8.0  
## 429 0.0  
## 430 -6.4  
## 431 0.4  
## 432 5.8  
## 433 -8.8  
## 434 6.4  
## 435 -13.6  
## 436 0.0  
## 437 0.0  
## 438 -5.2  
## 439 6.2  
## 440 -8.4  
## 441 0.0  
## 442 0.0  
## 443 9.8  
## 444 -5.0  
## 445 -3.2  
## 446 16.2  
## 447 23.2  
## 448 23.4  
## 449 0.0  
## 450 0.0  
## 451 0.0  
## 452 0.0  
## 453 -6.0  
## 454 -8.8  
## 455 -3.4  
## 456 -2.2  
## 457 0.2  
## 458 1.0  
## 459 -3.0  
## 460 0.2  
## 461 3.6  
## 462 -13.4  
## 463 -1.4  
## 464 -9.4  
## 465 -4.8  
## 466 -1.6  
## 467 2.4  
## altitude\_change\_past\_840\_to\_900\_seconds  
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## 2 1.2  
## 3 14.8  
## 4 0.0  
## 5 34.6  
## 6 -7.4  
## 7 0.0  
## 8 0.0  
## 9 0.0  
## 10 23.2  
## 11 -0.8  
## 12 11.4  
## 13 4.6  
## 14 0.6  
## 15 -2.0  
## 16 2.2  
## 17 0.8  
## 18 12.2  
## 19 -6.4  
## 20 0.0  
## 21 0.0  
## 22 0.0  
## 23 0.0  
## 24 11.4  
## 25 4.8  
## 26 -2.2  
## 27 -2.8  
## 28 11.6  
## 29 7.0  
## 30 0.0  
## 31 -46.8  
## 32 2.8  
## 33 -18.6  
## 34 -3.6  
## 35 5.2  
## 36 21.4  
## 37 -2.0  
## 38 -3.8  
## 39 1.4  
## 40 0.0  
## 41 2.6  
## 42 -39.2  
## 43 0.0  
## 44 0.0  
## 45 0.0  
## 46 0.0  
## 47 7.0  
## 48 0.8  
## 49 5.0  
## 50 9.2  
## 51 0.0  
## 52 2.4  
## 53 9.4  
## 54 0.0  
## 55 0.0  
## 56 0.0  
## 57 0.0  
## 58 0.0  
## 59 -1.0  
## 60 0.0  
## 61 0.0  
## 62 -2.4  
## 63 -11.0  
## 64 0.0  
## 65 -26.4  
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## 67 0.0  
## 68 -28.0  
## 69 0.0  
## 70 -9.4  
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## 72 52.8  
## 73 4.2  
## 74 19.0  
## 75 0.0  
## 76 0.0  
## 77 0.0  
## 78 0.0  
## 79 0.0  
## 80 0.0  
## 81 1.2  
## 82 -5.6  
## 83 -5.4  
## 84 8.8  
## 85 -3.2  
## 86 15.4  
## 87 2.8  
## 88 -1.8  
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## 90 -1.8  
## 91 -0.4  
## 92 -0.8  
## 93 0.0  
## 94 0.0  
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## 96 5.4  
## 97 -3.6  
## 98 -4.8  
## 99 -4.0  
## 100 -7.2  
## 101 0.4  
## 102 6.2  
## 103 6.2  
## 104 4.4  
## 105 3.4  
## 106 0.6  
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## 119 2.0  
## 120 1.8  
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## 122 -3.2  
## 123 0.2  
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## 125 3.8  
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## 155 -7.2  
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## 178 -4.2  
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## 203 4.2  
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## 205 -0.6  
## 206 1.0  
## 207 -2.6  
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## 212 -0.4  
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## 216 0.0  
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## 218 1.0  
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## 235 3.8  
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## 237 0.0  
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## 240 6.2  
## 241 0.0  
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## 294 -1.2  
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## 315 -2.8  
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## 319 -1.4  
## 320 -1.8  
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## 335 -8.8  
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## 364 6.8  
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## 367 0.0  
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## 369 7.0  
## 370 3.2  
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## 373 5.2  
## 374 4.8  
## 375 -1.4  
## 376 -4.4  
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## 378 -27.8  
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## 381 -12.4  
## 382 -6.4  
## 383 -12.4  
## 384 10.4  
## 385 -5.0  
## 386 -1.0  
## 387 1.8  
## 388 -17.2  
## 389 -4.2  
## 390 -7.8  
## 391 4.0  
## 392 2.8  
## 393 1.0  
## 394 0.0  
## 395 -20.2  
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## 398 0.0  
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## 402 4.8  
## 403 -9.2  
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## 405 -6.6  
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## 407 -0.8  
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## 410 0.2  
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## 414 -2.8  
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## 418 3.8  
## 419 2.0  
## 420 4.2  
## 421 0.0  
## 422 0.0  
## 423 -21.0  
## 424 0.2  
## 425 8.6  
## 426 12.2  
## 427 -3.2  
## 428 -1.6  
## 429 0.0  
## 430 -9.2  
## 431 -13.2  
## 432 5.8  
## 433 11.8  
## 434 1.0  
## 435 11.8  
## 436 0.0  
## 437 0.0  
## 438 -18.8  
## 439 -7.4  
## 440 -2.8  
## 441 0.0  
## 442 0.0  
## 443 -10.6  
## 444 10.2  
## 445 -11.8  
## 446 -23.0  
## 447 3.6  
## 448 -11.4  
## 449 0.0  
## 450 0.0  
## 451 0.0  
## 452 0.0  
## 453 0.0  
## 454 -1.8  
## 455 -3.8  
## 456 -0.4  
## 457 5.2  
## 458 5.8  
## 459 2.8  
## 460 2.4  
## 461 3.2  
## 462 1.0  
## 463 -5.0  
## 464 14.2  
## 465 2.8  
## 466 1.0  
## 467 3.6  
## altitude\_change\_past\_900\_to\_1800\_seconds  
## 1 0.0  
## 2 0.0  
## 3 -25.0  
## 4 0.0  
## 5 0.0  
## 6 4.4  
## 7 0.0  
## 8 0.0  
## 9 0.0  
## 10 -69.2  
## 11 -54.4  
## 12 -59.0  
## 13 -44.0  
## 14 -48.8  
## 15 -48.6  
## 16 -9.8  
## 17 8.2  
## 18 -12.8  
## 19 0.8  
## 20 -3.8  
## 21 -0.2  
## 22 1.8  
## 23 -9.2  
## 24 1.2  
## 25 5.4  
## 26 8.6  
## 27 6.2  
## 28 4.2  
## 29 5.0  
## 30 0.0  
## 31 -5.0  
## 32 -59.6  
## 33 -27.4  
## 34 17.0  
## 35 -13.4  
## 36 -7.0  
## 37 -7.0  
## 38 -15.8  
## 39 5.0  
## 40 0.0  
## 41 -1.8  
## 42 40.8  
## 43 0.0  
## 44 -41.4  
## 45 -41.4  
## 46 -41.4  
## 47 -11.2  
## 48 -6.8  
## 49 -5.0  
## 50 -8.6  
## 51 2.4  
## 52 2.6  
## 53 -4.6  
## 54 0.0  
## 55 0.0  
## 56 0.0  
## 57 0.0  
## 58 0.0  
## 59 -99.0  
## 60 0.0  
## 61 0.0  
## 62 -22.2  
## 63 -17.4  
## 64 0.0  
## 65 -4.4  
## 66 0.0  
## 67 0.0  
## 68 -0.8  
## 69 0.0  
## 70 0.0  
## 71 0.0  
## 72 24.6  
## 73 72.8  
## 74 26.0  
## 75 0.0  
## 76 -30.0  
## 77 -30.0  
## 78 -17.4  
## 79 -7.0  
## 80 1.2  
## 81 -0.2  
## 82 -2.6  
## 83 -4.6  
## 84 -7.0  
## 85 -0.6  
## 86 -12.4  
## 87 3.8  
## 88 1.2  
## 89 -2.2  
## 90 -0.6  
## 91 -2.6  
## 92 -2.2  
## 93 -3.0  
## 94 -3.0  
## 95 -3.0  
## 96 -2.8  
## 97 4.4  
## 98 3.6  
## 99 -0.2  
## 100 -1.6  
## 101 -5.6  
## 102 -9.2  
## 103 -6.4  
## 104 -2.8  
## 105 -4.8  
## 106 -1.0  
## 107 -1.0  
## 108 2.6  
## 109 -1.4  
## 110 -5.0  
## 111 1.2  
## 112 1.6  
## 113 1.2  
## 114 2.4  
## 115 6.6  
## 116 10.4  
## 117 5.4  
## 118 6.6  
## 119 10.4  
## 120 4.4  
## 121 0.8  
## 122 3.4  
## 123 10.8  
## 124 10.4  
## 125 8.6  
## 126 2.8  
## 127 1.6  
## 128 1.8  
## 129 -2.0  
## 130 2.4  
## 131 3.2  
## 132 -6.0  
## 133 -9.0  
## 134 0.8  
## 135 2.2  
## 136 3.6  
## 137 2.8  
## 138 0.0  
## 139 0.0  
## 140 0.8  
## 141 0.0  
## 142 0.0  
## 143 0.0  
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## 145 -22.4  
## 146 6.8  
## 147 0.0  
## 148 -3.2  
## 149 -21.6  
## 150 0.0  
## 151 -76.2  
## 152 -92.8  
## 153 4.2  
## 154 -66.4  
## 155 8.4  
## 156 -0.6  
## 157 -12.2  
## 158 -40.6  
## 159 -24.2  
## 160 -32.4  
## 161 1.0  
## 162 -0.4  
## 163 -20.4  
## 164 -67.8  
## 165 -67.8  
## 166 -85.6  
## 167 -7.6  
## 168 1.0  
## 169 -1.0  
## 170 -1.6  
## 171 5.0  
## 172 5.0  
## 173 5.0  
## 174 3.0  
## 175 1.6  
## 176 -0.4  
## 177 -0.4  
## 178 7.6  
## 179 7.2  
## 180 8.4  
## 181 0.0  
## 182 4.8  
## 183 7.6  
## 184 -2.2  
## 185 -5.4  
## 186 0.0  
## 187 0.0  
## 188 -19.8  
## 189 -18.8  
## 190 4.2  
## 191 3.2  
## 192 0.0  
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## 194 -59.0  
## 195 -59.0  
## 196 -60.8  
## 197 -20.6  
## 198 36.6  
## 199 -1.2  
## 200 -0.2  
## 201 -1.0  
## 202 -2.8  
## 203 0.0  
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## 205 -0.2  
## 206 13.4  
## 207 7.2  
## 208 8.2  
## 209 5.0  
## 210 3.2  
## 211 -2.2  
## 212 1.8  
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## 214 -0.4  
## 215 0.0  
## 216 0.0  
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## 218 -2.4  
## 219 -3.2  
## 220 -11.6  
## 221 0.0  
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## 223 0.0  
## 224 0.0  
## 225 0.0  
## 226 0.0  
## 227 0.0  
## 228 0.0  
## 229 -2.8  
## 230 -6.6  
## 231 2.8  
## 232 5.2  
## 233 2.6  
## 234 -17.2  
## 235 -8.0  
## 236 0.0  
## 237 0.0  
## 238 0.0  
## 239 -27.4  
## 240 -30.2  
## 241 0.0  
## 242 1.0  
## 243 -4.4  
## 244 -7.4  
## 245 1.8  
## 246 1.8  
## 247 1.8  
## 248 1.8  
## 249 -5.2  
## 250 -5.8  
## 251 -10.0  
## 252 -3.6  
## 253 6.4  
## 254 -6.6  
## 255 -6.0  
## 256 -6.2  
## 257 -6.6  
## 258 -5.0  
## 259 -2.0  
## 260 -5.4  
## 261 6.8  
## 262 9.6  
## 263 11.4  
## 264 7.2  
## 265 3.2  
## 266 0.4  
## 267 9.0  
## 268 6.2  
## 269 0.0  
## 270 23.8  
## 271 5.4  
## 272 3.4  
## 273 0.0  
## 274 0.0  
## 275 0.0  
## 276 0.0  
## 277 0.0  
## 278 0.0  
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## 280 -7.8  
## 281 -2.8  
## 282 4.6  
## 283 2.6  
## 284 10.0  
## 285 -2.2  
## 286 -14.4  
## 287 1.0  
## 288 4.2  
## 289 0.0  
## 290 -18.4  
## 291 0.0  
## 292 0.2  
## 293 0.6  
## 294 -13.8  
## 295 19.0  
## 296 10.2  
## 297 4.8  
## 298 -17.2  
## 299 0.0  
## 300 0.0  
## 301 0.0  
## 302 -75.0  
## 303 -70.8  
## 304 0.0  
## 305 0.0  
## 306 -58.0  
## 307 -47.6  
## 308 -47.6  
## 309 -47.6  
## 310 -47.6  
## 311 -39.4  
## 312 -23.4  
## 313 -13.0  
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## 315 -5.4  
## 316 -6.6  
## 317 0.6  
## 318 10.2  
## 319 18.0  
## 320 6.8  
## 321 2.4  
## 322 5.2  
## 323 8.4  
## 324 2.0  
## 325 3.0  
## 326 3.2  
## 327 7.6  
## 328 0.0  
## 329 4.2  
## 330 5.4  
## 331 -0.2  
## 332 -3.2  
## 333 7.6  
## 334 11.0  
## 335 5.0  
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## 337 4.0  
## 338 -5.8  
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## 342 -8.6  
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## 344 13.0  
## 345 NA  
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## 347 0.0  
## 348 7.6  
## 349 0.4  
## 350 -7.8  
## 351 -5.4  
## 352 1.6  
## 353 7.6  
## 354 5.0  
## 355 3.8  
## 356 1.0  
## 357 -3.6  
## 358 -9.0  
## 359 -9.2  
## 360 -4.4  
## 361 0.8  
## 362 22.8  
## 363 12.4  
## 364 -14.4  
## 365 0.0  
## 366 0.0  
## 367 0.0  
## 368 0.0  
## 369 22.6  
## 370 24.2  
## 371 4.2  
## 372 6.2  
## 373 20.2  
## 374 -20.2  
## 375 -1.4  
## 376 6.8  
## 377 0.0  
## 378 0.0  
## 379 -16.8  
## 380 -19.8  
## 381 8.8  
## 382 -6.0  
## 383 9.6  
## 384 -4.4  
## 385 -8.6  
## 386 -0.6  
## 387 -8.8  
## 388 4.4  
## 389 -6.8  
## 390 -14.2  
## 391 -9.4  
## 392 -15.6  
## 393 -2.4  
## 394 0.0  
## 395 -33.0  
## 396 -48.0  
## 397 -32.6  
## 398 -32.6  
## 399 -32.6  
## 400 -27.2  
## 401 -42.6  
## 402 -18.2  
## 403 12.8  
## 404 7.2  
## 405 -0.8  
## 406 -1.8  
## 407 0.8  
## 408 1.2  
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## 410 -6.0  
## 411 0.0  
## 412 -29.4  
## 413 -173.6  
## 414 -119.6  
## 415 0.0  
## 416 -11.4  
## 417 -15.0  
## 418 -38.2  
## 419 -8.8  
## 420 -4.6  
## 421 0.0  
## 422 0.0  
## 423 -111.2  
## 424 -24.4  
## 425 8.4  
## 426 68.4  
## 427 113.2  
## 428 4.6  
## 429 28.4  
## 430 -21.6  
## 431 -38.8  
## 432 -54.4  
## 433 -20.2  
## 434 -7.6  
## 435 -10.2  
## 436 0.0  
## 437 0.0  
## 438 21.8  
## 439 12.2  
## 440 9.8  
## 441 0.0  
## 442 0.0  
## 443 -37.4  
## 444 -48.8  
## 445 -38.0  
## 446 -39.2  
## 447 -56.4  
## 448 -41.6  
## 449 -29.6  
## 450 -29.6  
## 451 -29.6  
## 452 -29.6  
## 453 -29.6  
## 454 -29.6  
## 455 -52.4  
## 456 -50.6  
## 457 -20.2  
## 458 -5.6  
## 459 6.2  
## 460 -0.8  
## 461 10.6  
## 462 26.0  
## 463 28.0  
## 464 4.2  
## 465 -7.4  
## 466 -6.4  
## 467 -9.8  
## altitude\_change\_past\_1800\_to\_3600\_seconds  
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## 4 0.0  
## 5 0.0  
## 6 0.0  
## 7 0.0  
## 8 0.0  
## 9 0.0  
## 10 0.0  
## 11 0.0  
## 12 0.0  
## 13 0.0  
## 14 0.0  
## 15 0.0  
## 16 -41.2  
## 17 -54.2  
## 18 -45.0  
## 19 -53.4  
## 20 -55.2  
## 21 -58.8  
## 22 -60.8  
## 23 -49.8  
## 24 10.2  
## 25 -1.6  
## 26 1.6  
## 27 -11.4  
## 28 -14.2  
## 29 2.0  
## 30 0.0  
## 31 0.0  
## 32 0.0  
## 33 2.2  
## 34 -58.2  
## 35 -40.0  
## 36 -51.2  
## 37 6.2  
## 38 15.8  
## 39 -12.4  
## 40 0.0  
## 41 0.0  
## 42 0.0  
## 43 0.0  
## 44 0.0  
## 45 0.0  
## 46 0.0  
## 47 -41.4  
## 48 -41.4  
## 49 -48.4  
## 50 -49.0  
## 51 -47.2  
## 52 -23.2  
## 53 -3.0  
## 54 0.0  
## 55 0.0  
## 56 0.0  
## 57 0.0  
## 58 0.0  
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## 61 0.0  
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## 73 0.0  
## 74 57.0  
## 75 0.0  
## 76 0.0  
## 77 0.0  
## 78 -12.6  
## 79 -23.0  
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## 81 -29.8  
## 82 -28.2  
## 83 -31.8  
## 84 -34.8  
## 85 -32.2  
## 86 -32.8  
## 87 -38.0  
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## 113 -35.8  
## 114 -35.4  
## 115 -39.4  
## 116 -41.2  
## 117 -39.2  
## 118 -42.0  
## 119 -42.2  
## 120 -37.4  
## 121 -32.2  
## 122 -32.8  
## 123 -38.8  
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## 125 -41.8  
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## 135 -3.2  
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## 161 -1.8  
## 162 1.6  
## 163 28.0  
## 164 73.4  
## 165 68.6  
## 166 91.0  
## 167 7.6  
## 168 1.4  
## 169 2.4  
## 170 1.6  
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## 172 -8.6  
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## 176 -107.0  
## 177 -177.0  
## 178 -3.0  
## 179 -3.4  
## 180 -4.2  
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## 182 -3.2  
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## 195 0.0  
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## 209 -59.8  
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## 212 -55.2  
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## 234 2.8  
## 235 -4.4  
## 236 -2.4  
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## 293 -13.8  
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## 319 -57.2  
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## 355 -17.2  
## 356 -14.0  
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## 359 -8.6  
## 360 -15.6  
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## 385 -17.0  
## 386 -24.2  
## 387 -17.4  
## 388 -24.2  
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## 432 28.4  
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## 435 -39.6  
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## 454 0.0  
## 455 16.2  
## 456 9.4  
## 457 -22.8  
## 458 -38.0  
## 459 -43.4  
## 460 -36.2  
## 461 -49.2  
## 462 -59.4  
## 463 -59.2  
## 464 -49.4  
## 465 -29.6  
## 466 -29.6  
## 467 -29.6  
## altitude\_change\_past\_3600\_to\_7200\_seconds  
## 1 0.0  
## 2 0.0  
## 3 0.0  
## 4 0.0  
## 5 0.0  
## 6 0.0  
## 7 0.0  
## 8 0.0  
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## 22 0.0  
## 23 0.0  
## 24 -70.4  
## 25 -53.8  
## 26 -60.6  
## 27 -47.6  
## 28 -44.8  
## 29 -53.6  
## 30 0.0  
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## 35 0.0  
## 36 0.0  
## 37 -58.4  
## 38 -52.6  
## 39 -49.4  
## 40 0.0  
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## 46 0.0  
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## 48 0.0  
## 49 0.0  
## 50 0.0  
## 51 0.0  
## 52 -24.2  
## 53 -44.4  
## 54 0.0  
## 55 0.0  
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## 131 0.0  
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## 133 -12.4  
## 134 -30.8  
## 135 -29.2  
## 136 -31.8  
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## 139 -30.4  
## 140 -33.2  
## 141 0.0  
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## 155 0.0  
## 156 -12.8  
## 157 -42.8  
## 158 -56.6  
## 159 -85.4  
## 160 -93.4  
## 161 -94.6  
## 162 -99.0  
## 163 -105.0  
## 164 -103.0  
## 165 -98.2  
## 166 -102.8  
## 167 -97.4  
## 168 -99.8  
## 169 -98.8  
## 170 -97.4  
## 171 -93.2  
## 172 -93.8  
## 173 -92.4  
## 174 -92.8  
## 175 -74.0  
## 176 13.2  
## 177 81.4  
## 178 -94.4  
## 179 -98.6  
## 180 -98.6  
## 181 0.0  
## 182 0.0  
## 183 0.0  
## 184 -28.6  
## 185 -11.8  
## 186 0.0  
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## 214 -65.8  
## 215 0.0  
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## 292 0.0  
## 293 -10.6  
## 294 -21.8  
## 295 -33.0  
## 296 -22.6  
## 297 -27.6  
## 298 -13.2  
## 299 0.0  
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## 364 -9.6  
## 365 0.0  
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## 409 -37.2  
## 410 -40.2  
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## 439 -35.8  
## 440 -35.8  
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## 465 0.0  
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## altitude\_change\_past\_7200\_to\_10800\_seconds  
## 1 0.0  
## 2 0.0  
## 3 0.0  
## 4 0.0  
## 5 0.0  
## 6 0.0  
## 7 0.0  
## 8 0.0  
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## 467 0.0  
## altitude\_change\_past\_10800\_to\_14400\_seconds speed\_past\_0\_to\_60\_seconds  
## 1 0 13.157820  
## 2 0 14.180940  
## 3 0 12.962100  
## 4 0 14.194920  
## 5 0 13.094820  
## 6 0 12.628740  
## 7 0 12.912000  
## 8 0 15.277380  
## 9 0 15.279742  
## 10 0 14.781900  
## 11 0 14.280000  
## 12 0 14.314860  
## 13 0 14.519580  
## 14 0 14.546100  
## 15 0 14.361360  
## 16 0 14.061180  
## 17 0 14.020560  
## 18 0 0.000000  
## 19 0 13.680600  
## 20 0 13.165200  
## 21 0 12.849720  
## 22 0 13.030800  
## 23 0 13.670700  
## 24 0 13.811940  
## 25 0 13.760700  
## 26 0 13.597560  
## 27 0 14.337000  
## 28 0 17.458620  
## 29 0 0.000000  
## 30 0 13.621080  
## 31 0 13.238700  
## 32 0 13.281960  
## 33 0 12.341940  
## 34 0 12.424260  
## 35 0 11.585940  
## 36 0 12.605160  
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## 410 12.95422615 12.6650274  
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## 413 12.06750000 11.7782400  
## 414 12.90438000 13.0557600  
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## 425 15.00726000 15.2774400  
## 426 15.39018000 15.1468200  
## 427 15.73896000 15.8020800  
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## 441 12.22209122 12.2980266  
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## 17 14.218320 14.652240  
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## 23 13.317600 12.959220  
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## 62 12.750900 13.448220  
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## 14 14.976300 14.587380  
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## 18 0.000000 0.000000  
## 19 13.361387 13.361387  
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## 410 14.407780 14.253928  
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## 458 14.799385 14.799385  
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## 466 14.964462 14.964462  
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## speed\_past\_10800\_to\_14400\_seconds heart\_rate\_past\_0\_to\_60\_seconds  
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## 2 13.723605 156.20000  
## 3 13.563481 154.33333  
## 4 12.522080 142.81667  
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## 6 12.980671 158.56667  
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## 10 13.414793 157.68333  
## 11 13.602072 160.70000  
## 12 13.712612 162.35000  
## 13 13.781503 162.21667  
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## 103 12.274072 NA  
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## heart\_rate\_past\_60\_to\_120\_seconds heart\_rate\_past\_120\_to\_180\_seconds  
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## 3 152.26667 152.00000  
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## 5 158.43333 159.60000  
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## 8 145.66667 127.31351  
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## 10 157.96667 155.48408  
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## 14 164.13333 161.96667  
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## 16 165.00000 165.68333  
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## 19 144.40000 135.07778  
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## heart\_rate\_past\_420\_to\_480\_seconds heart\_rate\_past\_480\_to\_540\_seconds  
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## total\_time\_spent\_running\_past\_120\_to\_180\_seconds  
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## total\_time\_spent\_running\_past\_180\_to\_240\_seconds  
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## total\_time\_spent\_running\_past\_240\_to\_300\_seconds  
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## total\_time\_spent\_running\_past\_300\_to\_360\_seconds  
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## total\_time\_spent\_running\_past\_360\_to\_420\_seconds  
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## total\_time\_spent\_running\_past\_420\_to\_480\_seconds  
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## total\_time\_spent\_running\_past\_480\_to\_540\_seconds  
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## total\_time\_spent\_running\_past\_540\_to\_600\_seconds  
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## 4 0  
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## total\_time\_spent\_running\_past\_600\_to\_660\_seconds  
## 1 0  
## 2 60  
## 3 60  
## 4 0  
## 5 60  
## 6 60  
## 7 0  
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## 415 0  
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## 420 60  
## 421 0  
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## 424 60  
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## 442 0  
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## 446 0  
## 447 0  
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## 467 60  
## total\_time\_spent\_running\_past\_660\_to\_720\_seconds  
## 1 0  
## 2 20  
## 3 60  
## 4 0  
## 5 60  
## 6 60  
## 7 0  
## 8 29  
## 9 60  
## 10 60  
## 11 0  
## 12 60  
## 13 60  
## 14 60  
## 15 60  
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## 17 60  
## 18 7  
## 19 0  
## 20 0  
## 21 0  
## 22 0  
## 23 54  
## 24 60  
## 25 60  
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## 29 60  
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## 38 60  
## 39 60  
## 40 0  
## 41 60  
## 42 60  
## 43 0  
## 44 0  
## 45 0  
## 46 60  
## 47 2  
## 48 14  
## 49 12  
## 50 33  
## 51 60  
## 52 60  
## 53 34  
## 54 0  
## 55 0  
## 56 0  
## 57 60  
## 58 60  
## 59 60  
## 60 0  
## 61 60  
## 62 60  
## 63 60  
## 64 0  
## 65 34  
## 66 0  
## 67 4  
## 68 60  
## 69 0  
## 70 60  
## 71 0  
## 72 60  
## 73 60  
## 74 60  
## 75 0  
## 76 0  
## 77 0  
## 78 4  
## 79 60  
## 80 60  
## 81 60  
## 82 60  
## 83 60  
## 84 60  
## 85 56  
## 86 22  
## 87 0  
## 88 0  
## 89 4  
## 90 41  
## 91 60  
## 92 60  
## 93 60  
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## 141 0  
## 142 0  
## 143 0  
## 144 60  
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## 146 60  
## 147 0  
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## 150 0  
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## 154 60  
## 155 60  
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## 158 60  
## 159 2  
## 160 0  
## 161 0  
## 162 0  
## 163 0  
## 164 0  
## 165 0  
## 166 0  
## 167 8  
## 168 29  
## 169 60  
## 170 60  
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## 177 60  
## 178 60  
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## 181 0  
## 182 0  
## 183 0  
## 184 0  
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## 192 0  
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## 194 0  
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## 243 0  
## 244 0  
## 245 0  
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## 291 0  
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## 293 0  
## 294 60  
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## 308 0  
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## 312 60  
## 313 60  
## 314 13  
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## 333 60  
## 334 60  
## 335 60  
## 336 0  
## 337 60  
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## 339 0  
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## 341 0  
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## 343 59  
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## 346 0  
## 347 0  
## 348 60  
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## 361 60  
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## 393 60  
## 394 0  
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## 396 0  
## 397 0  
## 398 60  
## 399 60  
## 400 0  
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## 420 60  
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## 434 60  
## 435 60  
## 436 0  
## 437 0  
## 438 42  
## 439 57  
## 440 52  
## 441 0  
## 442 0  
## 443 60  
## 444 60  
## 445 43  
## 446 9  
## 447 0  
## 448 0  
## 449 0  
## 450 0  
## 451 27  
## 452 60  
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## 454 60  
## 455 4  
## 456 40  
## 457 60  
## 458 60  
## 459 60  
## 460 60  
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## 467 60  
## total\_time\_spent\_running\_past\_720\_to\_780\_seconds  
## 1 0  
## 2 50  
## 3 60  
## 4 0  
## 5 48  
## 6 60  
## 7 0  
## 8 0  
## 9 60  
## 10 60  
## 11 45  
## 12 57  
## 13 60  
## 14 60  
## 15 60  
## 16 60  
## 17 60  
## 18 60  
## 19 0  
## 20 0  
## 21 0  
## 22 0  
## 23 0  
## 24 60  
## 25 60  
## 26 60  
## 27 60  
## 28 60  
## 29 60  
## 30 0  
## 31 56  
## 32 60  
## 33 60  
## 34 60  
## 35 60  
## 36 7  
## 37 47  
## 38 60  
## 39 60  
## 40 0  
## 41 60  
## 42 60  
## 43 0  
## 44 0  
## 45 0  
## 46 17  
## 47 0  
## 48 0  
## 49 0  
## 50 0  
## 51 32  
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## 53 60  
## 54 0  
## 55 0  
## 56 0  
## 57 3  
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## 59 60  
## 60 0  
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## 63 60  
## 64 0  
## 65 60  
## 66 0  
## 67 0  
## 68 60  
## 69 0  
## 70 60  
## 71 0  
## 72 29  
## 73 60  
## 74 60  
## 75 0  
## 76 0  
## 77 0  
## 78 0  
## 79 5  
## 80 60  
## 81 60  
## 82 60  
## 83 60  
## 84 60  
## 85 60  
## 86 60  
## 87 51  
## 88 16  
## 89 0  
## 90 0  
## 91 11  
## 92 48  
## 93 60  
## 94 60  
## 95 60  
## 96 60  
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## 141 0  
## 142 0  
## 143 0  
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## 147 0  
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## 150 0  
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## 162 0  
## 163 0  
## 164 0  
## 165 0  
## 166 0  
## 167 0  
## 168 0  
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## 184 0  
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## 237 0  
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## 240 60  
## 241 54  
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## 245 0  
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## 334 60  
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## 341 0  
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## 370 60  
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## 408 0  
## 409 60  
## 410 60  
## 411 0  
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## 414 60  
## 415 0  
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## 417 51  
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## 421 0  
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## 436 0  
## 437 0  
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## 442 0  
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## 446 60  
## 447 0  
## 448 0  
## 449 0  
## 450 0  
## 451 0  
## 452 7  
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## 455 58  
## 456 22  
## 457 60  
## 458 60  
## 459 60  
## 460 60  
## 461 60  
## 462 60  
## 463 60  
## 464 60  
## 465 60  
## 466 60  
## 467 60  
## total\_time\_spent\_running\_past\_780\_to\_840\_seconds  
## 1 0  
## 2 60  
## 3 60  
## 4 0  
## 5 60  
## 6 60  
## 7 0  
## 8 0  
## 9 59  
## 10 60  
## 11 60  
## 12 0  
## 13 60  
## 14 58  
## 15 60  
## 16 60  
## 17 60  
## 18 60  
## 19 0  
## 20 0  
## 21 0  
## 22 0  
## 23 0  
## 24 60  
## 25 60  
## 26 60  
## 27 60  
## 28 60  
## 29 60  
## 30 0  
## 31 56  
## 32 60  
## 33 60  
## 34 60  
## 35 60  
## 36 0  
## 37 60  
## 38 60  
## 39 58  
## 40 0  
## 41 60  
## 42 60  
## 43 0  
## 44 0  
## 45 0  
## 46 0  
## 47 0  
## 48 0  
## 49 0  
## 50 0  
## 51 0  
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## total\_time\_spent\_running\_past\_840\_to\_900\_seconds  
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## 38 60  
## 39 60  
## 40 0  
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## 42 60  
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## 44 0  
## 45 0  
## 46 0  
## 47 49  
## 48 49  
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## 50 30  
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## 312 0  
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## total\_time\_spent\_running\_past\_900\_to\_1800\_seconds  
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## 8 0  
## 9 0  
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## 13 461  
## 14 611  
## 15 768  
## 16 781  
## 17 781  
## 18 900  
## 19 900  
## 20 811  
## 21 663  
## 22 518  
## 23 374  
## 24 234  
## 25 188  
## 26 232  
## 27 370  
## 28 474  
## 29 900  
## 30 0  
## 31 34  
## 32 418  
## 33 852  
## 34 900  
## 35 900  
## 36 900  
## 37 770  
## 38 707  
## 39 829  
## 40 0  
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## 42 413  
## 43 0  
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## 45 349  
## 46 349  
## 47 262  
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## 51 516  
## 52 498  
## 53 531  
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## 55 0  
## 56 0  
## 57 0  
## 58 0  
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## 60 0  
## 61 0  
## 62 345  
## 63 751  
## 64 0  
## 65 45  
## 66 0  
## 67 0  
## 68 114  
## 69 0  
## 70 46  
## 71 0  
## 72 37  
## 73 457  
## 74 865  
## 75 0  
## 76 561  
## 77 561  
## 78 512  
## 79 451  
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## 83 295  
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## 86 295  
## 87 295  
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## 89 359  
## 90 396  
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## 92 463  
## 93 465  
## 94 465  
## 95 465  
## 96 468  
## 97 499  
## 98 535  
## 99 565  
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## 102 650  
## 103 666  
## 104 684  
## 105 700  
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## 107 737  
## 108 752  
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## 142 0  
## 143 0  
## 144 113  
## 145 574  
## 146 895  
## 147 0  
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## 149 512  
## 150 0  
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## 152 727  
## 153 789  
## 154 741  
## 155 766  
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## 275 0  
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## 458 566  
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## 465 586  
## 466 631  
## 467 709  
## total\_time\_spent\_running\_past\_1800\_to\_3600\_seconds  
## 1 0  
## 2 0  
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## 15 0  
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## 17 301  
## 18 897  
## 19 1030  
## 20 1173  
## 21 1321  
## 22 1466  
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## 24 1681  
## 25 1681  
## 26 1637  
## 27 1559  
## 28 1512  
## 29 1088  
## 30 0  
## 31 0  
## 32 0  
## 33 17  
## 34 432  
## 35 1030  
## 36 1573  
## 37 1770  
## 38 1792  
## 39 1670  
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## 41 0  
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## 43 0  
## 44 0  
## 45 0  
## 46 0  
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## 52 830  
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## 77 0  
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## 139 1135  
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## 207 862  
## 208 945  
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## 266 811  
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## 296 1244  
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## 331 807  
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## 373 1290  
## 374 1703  
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## 376 1795  
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## 383 195  
## 384 235  
## 385 356  
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## 409 1547  
## 410 1214  
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## 416 0  
## 417 0  
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## 419 557  
## 420 965  
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## 429 0  
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## 432 79  
## 433 201  
## 434 530  
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## 437 852  
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## total\_time\_spent\_running\_past\_3600\_to\_7200\_seconds  
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## 22 0  
## 23 0  
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## 26 347  
## 27 425  
## 28 472  
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## 32 0  
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## 35 0  
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## total\_time\_spent\_running\_past\_7200\_to\_10800\_seconds  
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## 374 9.813805 41.98670 -87.66067 183.0138 149.6514 17.15921 9  
## 375 9.813805 41.98670 -87.66067 183.0138 149.6514 17.15921 9  
## 376 9.813805 41.98670 -87.66067 183.0138 149.6514 17.15921 9  
## 377 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
## 378 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
## 379 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
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## 387 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
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## 392 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
## 393 9.903188 41.94512 -87.64062 176.0213 156.6928 13.20808 10  
## 394 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 395 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 396 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 397 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 398 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 399 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 400 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
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## 403 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 404 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
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## 407 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 408 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 409 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 410 4.418612 41.96541 -87.64593 175.5068 153.7268 14.52720 4  
## 411 6.244571 41.97707 -87.65015 193.5077 146.2392 6.84815 5  
## 412 6.244571 41.97707 -87.65015 193.5077 146.2392 6.84815 5  
## 413 6.244571 41.97707 -87.65015 193.5077 146.2392 6.84815 5  
## 414 6.244571 41.97707 -87.65015 193.5077 146.2392 6.84815 5  
## 415 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 416 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 417 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 418 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 419 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 420 2.561448 41.97099 -87.64917 167.5213 147.2275 9.67988 2  
## 421 4.208391 41.94660 -87.64202 119.9628 164.2277 12.97584 3  
## 422 4.208391 41.94660 -87.64202 119.9628 164.2277 12.97584 3  
## 423 4.208391 41.94660 -87.64202 119.9628 164.2277 12.97584 3  
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## 428 4.208391 41.94660 -87.64202 119.9628 164.2277 12.97584 3  
## 429 4.974883 41.93019 -87.63542 176.4234 154.2323 16.93987 4  
## 430 4.974883 41.93019 -87.63542 176.4234 154.2323 16.93987 4  
## 431 4.974883 41.93019 -87.63542 176.4234 154.2323 16.93987 4  
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## 440 4.974883 41.93019 -87.63542 176.4234 154.2323 16.93987 4  
## 441 9.035714 41.96511 -87.64562 177.2938 156.3615 10.87210 7  
## 442 9.035714 41.96511 -87.64562 177.2938 156.3615 10.87210 7  
## 443 9.035714 41.96511 -87.64562 177.2938 156.3615 10.87210 7  
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## 466 9.035714 41.96511 -87.64562 177.2938 156.3615 10.87210 7  
## 467 9.035714 41.96511 -87.64562 177.2938 156.3615 10.87210 7  
## [ reached 'max' / getOption("max.print") -- omitted 5156 rows ]

View variables in the data set structure.

str(data)

## 'data.frame': 5623 obs. of 214 variables:  
## $ event\_id : int 1 1 1 2 2 2 3 3 3 3 ...  
## $ timestamp : chr "2017-09-21T21:25:38Z" "2017-09-21T21:32:15Z" "2017-09-21T21:39:29Z" "2017-09-22T17:37:07Z" ...  
## $ heart\_rate : int 143 154 156 143 155 158 139 151 154 156 ...  
## $ time\_elapsed : int 486 883 1317 460 891 1335 424 689 839 997 ...  
## $ total\_running\_time : int 436 833 1267 448 879 1323 424 572 720 878 ...  
## $ altitude : num 182 176 199 178 187 ...  
## $ distance : num 1.61 3.22 4.83 1.61 3.22 ...  
## $ speed : num 13.2 14.3 13 14.6 13.2 ...  
## $ cadence : int 80 81 81 82 82 81 83 84 81 82 ...  
## $ start\_time : chr "2017-09-21 21:17:32" "2017-09-21 21:25:39" "2017-09-21 21:32:16" "2017-09-22 17:29:27" ...  
## $ start\_position\_lat : num 42 42 42 42 42 ...  
## $ start\_position\_long : num -87.7 -87.6 -87.6 -87.7 -87.6 ...  
## $ end\_position\_lat : num 42 42 42 42 42 ...  
## $ end\_position\_long : num -87.6 -87.6 -87.7 -87.6 -87.7 ...  
## $ total\_elapsed\_time : num 486 398 433 460 432 ...  
## $ total\_timer\_time : num 436 398 433 449 432 ...  
## $ total\_distance : num 1609 1609 1609 1609 1609 ...  
## $ total\_strides : int 586 534 581 606 586 602 583 203 202 217 ...  
## $ total\_calories : int 78 82 89 97 102 108 81 29 36 38 ...  
## $ enhanced\_avg\_speed : num 13.3 14.6 13.4 12.9 13.4 ...  
## $ avg\_speed : num 13.6 13.6 13.6 13 13 ...  
## $ enhanced\_max\_speed : num 15.5 15.4 14.4 14.9 14.6 ...  
## $ max\_speed : num 15.5 15.4 14.4 14.9 14.6 ...  
## $ total\_ascent : int 59 33 60 108 59 21 64 17 15 18 ...  
## $ total\_descent : int 64 40 45 116 54 19 123 19 17 19 ...  
## $ event : chr "lap" "lap" "lap" "lap" ...  
## $ event\_type : chr "stop" "stop" "stop" "stop" ...  
## $ avg\_heart\_rate : int 134 151 153 150 154 159 131 141 155 157 ...  
## $ max\_heart\_rate : int 148 158 159 168 165 164 144 157 160 161 ...  
## $ avg\_running\_cadence : int 80 80 80 81 81 81 82 83 82 82 ...  
## $ max\_running\_cadence : int 84 85 84 88 84 83 85 88 87 87 ...  
## $ lap\_trigger : chr "distance" "distance" "distance" "distance" ...  
## $ sub\_sport : chr "generic" "generic" "generic" "generic" ...  
## $ avg\_fractional\_cadence : num 0.57 0.961 0.719 0.539 0.539 ...  
## $ max\_fractional\_cadence : num 0 0.5 0.5 0.5 0.5 0.5 0.5 0 0 0 ...  
## $ total\_fractional\_cycles : logi NA NA NA NA NA NA ...  
## $ avg\_vertical\_oscillation : logi NA NA NA NA NA NA ...  
## $ avg\_temperature : logi NA NA NA NA NA NA ...  
## $ max\_temperature : logi NA NA NA NA NA NA ...  
## $ timestamp\_utc : chr "2017-09-21 21:25:38" "2017-09-21 21:32:15" "2017-09-21 21:39:29" "2017-09-22 17:37:07" ...  
## $ timezone : chr "America/Chicago" "America/Chicago" "America/Chicago" "America/Chicago" ...  
## $ timestamp\_previous : chr "" "2017-09-21T21:25:38Z" "2017-09-21T21:32:15Z" "" ...  
## $ lap\_id : int 1 2 3 1 2 3 1 2 3 4 ...  
## $ rest\_time : int 0 0 0 0 0 0 0 117 2 0 ...  
## $ n\_rests : int 0 0 0 0 0 0 0 1 1 0 ...  
## $ altitude\_change\_past\_60\_seconds : num 8.6 -10.4 11.6 -30.2 -0.4 ...  
## $ altitude\_change\_past\_120\_seconds : num 0 1.6 20.6 -36.8 -5.6 ...  
## $ altitude\_change\_past\_180\_seconds : num 4.6 1.4 20.2 -32 -3.8 ...  
## $ altitude\_change\_past\_240\_seconds : num 4.6 -3.2 22.6 -32.2 12 ...  
## $ altitude\_change\_past\_300\_seconds : num 3.8 1.8 30.2 -31.6 5.4 ...  
## $ altitude\_change\_past\_360\_seconds : num 4 -5.4 30.2 -2.4 10 ...  
## $ altitude\_change\_past\_420\_seconds : num -2 -7.6 21.6 -45.4 10.8 ...  
## $ altitude\_change\_past\_480\_seconds : num -14.6 3.4 13.2 -3.4 -25.8 ...  
## $ altitude\_change\_past\_540\_seconds : num -11 -5.6 29 -3.4 -28 ...  
## $ altitude\_change\_past\_600\_seconds : num -11 -2.4 29.8 -3.4 -25.2 ...  
## $ altitude\_change\_past\_660\_seconds : num -11 -1.8 24.6 -3.4 -24.6 ...  
## $ altitude\_change\_past\_720\_seconds : num -11 -2.8 28.8 -3.4 -30 ...  
## $ altitude\_change\_past\_780\_seconds : num -11 6.8 15.8 -3.4 11 ...  
## $ altitude\_change\_past\_840\_seconds : num -11 -18.8 15.8 -3.4 -29.2 ...  
## $ altitude\_change\_past\_900\_seconds : num -11 -17.6 30.6 -3.4 5.4 ...  
## $ altitude\_change\_past\_1800\_seconds : num -11 -17.6 5.6 -3.4 5.4 ...  
## $ altitude\_change\_past\_3600\_seconds : num -11 -17.6 5.6 -3.4 5.4 ...  
## $ altitude\_change\_past\_7200\_seconds : num -11 -17.6 5.6 -3.4 5.4 ...  
## $ altitude\_change\_past\_10800\_seconds : num -11 -17.6 5.6 -3.4 5.4 ...  
## $ altitude\_change\_past\_14400\_seconds : num -11 -17.6 5.6 -3.4 5.4 ...  
## $ speed\_past\_60\_seconds : num 13.2 14.2 13 14.2 13.1 ...  
## $ speed\_past\_120\_seconds : num 13.2 14.3 12.9 13.6 13.2 ...  
## $ speed\_past\_180\_seconds : num 13.2 14.4 12.9 13.4 13.2 ...  
## $ speed\_past\_240\_seconds : num 13.4 14.5 13 13.3 13.3 ...  
## $ speed\_past\_300\_seconds : num 13.1 14.7 13.1 13.1 13.3 ...  
## $ speed\_past\_360\_seconds : num 13 14.6 13.1 12.9 13.4 ...  
## $ speed\_past\_420\_seconds : num 13.1 14.4 13.2 12.8 13.5 ...  
## $ speed\_past\_480\_seconds : num 13.2 14.2 13.3 12.5 13.6 ...  
## $ speed\_past\_540\_seconds : num 13.1 14.1 13.4 12.5 13.5 ...  
## $ speed\_past\_600\_seconds : num 13.1 14.1 13.6 12.5 13.5 ...  
## $ speed\_past\_660\_seconds : num 13.1 14.1 13.7 12.5 13.4 ...  
## $ speed\_past\_720\_seconds : num 13.1 13.9 13.8 12.5 13.4 ...  
## $ speed\_past\_780\_seconds : num 13.1 13.8 13.9 12.5 13.3 ...  
## $ speed\_past\_840\_seconds : num 13.1 13.8 13.8 12.5 13.2 ...  
## $ speed\_past\_900\_seconds : num 13.1 13.7 13.8 12.5 13 ...  
## $ speed\_past\_1800\_seconds : num 13.1 13.7 13.6 12.5 13 ...  
## $ speed\_past\_3600\_seconds : num 13.1 13.7 13.6 12.5 13 ...  
## $ speed\_past\_7200\_seconds : num 13.1 13.7 13.6 12.5 13 ...  
## $ speed\_past\_10800\_seconds : num 13.1 13.7 13.6 12.5 13 ...  
## $ speed\_past\_14400\_seconds : num 13.1 13.7 13.6 12.5 13 ...  
## $ heart\_rate\_past\_60\_seconds : num 144 156 154 143 158 ...  
## $ heart\_rate\_past\_120\_seconds : num 144 154 153 143 158 ...  
## $ heart\_rate\_past\_180\_seconds : num 144 153 153 144 159 ...  
## $ heart\_rate\_past\_240\_seconds : num 142 153 153 146 158 ...  
## $ heart\_rate\_past\_300\_seconds : num 136 153 153 146 157 ...  
## $ heart\_rate\_past\_360\_seconds : num 136 152 152 148 155 ...  
## $ heart\_rate\_past\_420\_seconds : num 137 151 153 150 154 ...  
## $ heart\_rate\_past\_480\_seconds : num 135 150 153 150 153 ...  
## $ heart\_rate\_past\_540\_seconds : num 134 150 153 150 152 ...  
## $ heart\_rate\_past\_600\_seconds : num 134 149 153 150 151 ...  
## $ heart\_rate\_past\_660\_seconds : num 134 147 153 150 151 ...  
## $ heart\_rate\_past\_720\_seconds : num 134 145 153 150 151 ...  
## $ heart\_rate\_past\_780\_seconds : num 134 145 153 150 151 ...  
## $ heart\_rate\_past\_840\_seconds : num 134 144 152 150 152 ...  
## [list output truncated]

Create and format a data frame, eliminating NA and missing values.

#Create new data\_frame without NA values for heart\_rate and time\_elapsed variables  
data\_filter <- filter(data,!is.na(data$event\_id) & !is.na(data$heart\_rate) & !is.na(data$time\_elapsed))  
  
#Format start\_time as a date variable for time series  
data\_filter$start\_time\_date <-as.Date(sapply(strsplit(data\_filter$start\_time, " "), function(x) x[1]))

Below is a plot of the Max Candocia’s average heart rate during his runs throughout the span of this study.

ggplot(data\_filter, aes(x=data\_filter$start\_time\_date,y=data\_filter$avg\_hr)) + labs(title="Heart Rate Over Time", x="Date", y="Heart Rate") + geom\_line() + geom\_smooth() + scale\_x\_date()

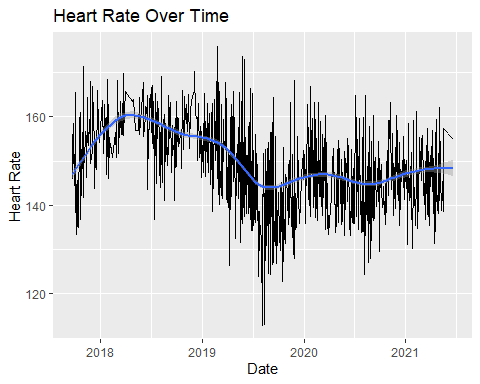
## Warning: Use of `data\_filter$start\_time\_date` is discouraged.  
## ℹ Use `start\_time\_date` instead.

## Warning: Use of `data\_filter$avg\_hr` is discouraged.  
## ℹ Use `avg\_hr` instead.

## Warning: Use of `data\_filter$start\_time\_date` is discouraged.  
## ℹ Use `start\_time\_date` instead.

## Warning: Use of `data\_filter$avg\_hr` is discouraged.  
## ℹ Use `avg\_hr` instead.

## `geom\_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'



You will see a trendline included in the graph, which is showing an increase in average heart rate per run for the first part of this study through mid-2018. Then it appears to decrease through mid-2019 and then stay somewhat constant throughout the remainder of the study.

## Variable Selection:

There are potentially 214 variables to look at in this data set. For simplicity, we decided to only focus on two of the variables. We are going to use heart\_rate as the response variable and time\_elapsed as the predictor variable. Time\_elapsed is measured in seconds, while heart\_rate is measured in beats per minute.

Before creating our models, we are going to create a smaller data frame with only the variables of interest. For each day that the author recorded himself running, he included a row for each lap he ran, and recorded the total time elapsed from the start of his run. So for our analysis, we will include only the final row for each day, which has the cumulative time elapsed for the day.

#Create another new data frame from data\_small with just the needed variables  
data\_small\_all <- data\_filter[c("event\_id","heart\_rate","time\_elapsed")]  
  
#Keep the rows with the cumulative time elapsed for that event only  
time\_elapsed\_max <- aggregate(time\_elapsed ~ event\_id,data=data\_small\_all, max)  
  
data\_small <- merge(data\_small\_all,time\_elapsed\_max)  
  
#Check that there are no NA values in new data\_small data frame  
num\_na <- sum(is.na(data\_small))

Let’s examine the quantile values for the heart\_rate variable:

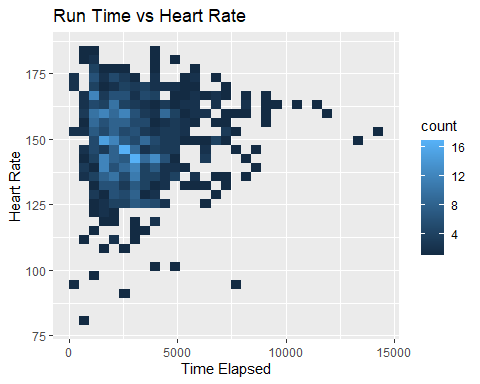
quantile(data\_small$heart\_rate)

## 0% 25% 50% 75% 100%   
## 81 139 149 160 184

We see that the median heart rate value was 149, with an interquartile range of 139 to 160, and min and max heart rate values of 81 and 184 respectively.

Next, to get an idea of how the total time per run and heart rate values relate, we will create a density plot with time\_elapsed on the x-axis and heart\_rate on the y-axis:

ggplot(data\_small, aes(x=time\_elapsed, y=heart\_rate)) + geom\_bin2d() + labs(title="Run Time vs Heart Rate", x="Time Elapsed", y="Heart Rate")



Note that there seems to be a larger density of heart rate values within the range of 145-150, which matches our quantile calculation. Also, notice how the variables are correlated. From looking at this graph, it appears that the relationship between time\_elapsed and heart\_rate may not be best represented with a linear model.

## Fitting the Models

Before fitting the nonlinear regression model, we will show what a nonlinear model looks like for our data.

# Model 1.1 : Determining nonlinearity

A linear model represents the relationship between the dependent variable and one or more independent variables. The equation, y = a+b\*x is used to express the linearity model in an equation, where y is the response variable, x is the predictor variable, a is the intercept, and b is the slope.

To determine nonlinearity, run the following code chunk to view statistics.

nonlinear\_model <- lm(heart\_rate ~ time\_elapsed, data = data\_small)  
  
summary(nonlinear\_model)

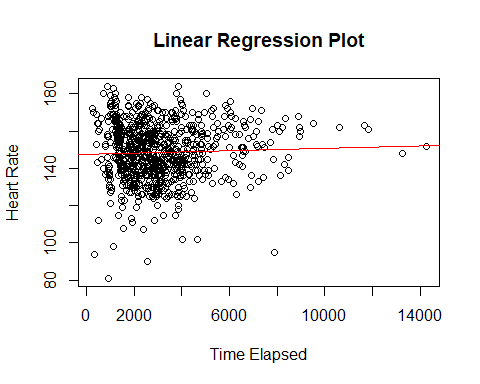
##   
## Call:  
## lm(formula = heart\_rate ~ time\_elapsed, data = data\_small)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -67.051 -9.674 -0.194 10.796 35.961   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 1.478e+02 1.033e+00 143.1 <2e-16 \*\*\*  
## time\_elapsed 3.206e-04 2.915e-04 1.1 0.272   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 14.9 on 805 degrees of freedom  
## Multiple R-squared: 0.0015, Adjusted R-squared: 0.0002594   
## F-statistic: 1.209 on 1 and 805 DF, p-value: 0.2718

The coefficients section of the summary output shows the estimated values of the model parameters, along with their standard errors, t-values, and p-values. The p-value for the time\_elapsed parameter is 0.272, which is greater than the significance level of 0.05. This means that the relationship between heart rate and time elapsed is not statistically significant, suggesting that the model is nonlinear. The F-statistic is 1.209 with a p-value of 0.2718, indicating that the model as a whole is not statistically significant. The residual standard error is 14.9, indicating the average amount by which the observed heart rates deviate from the predicted values. A lower residual standard error generally indicates a better fit of the model.

The lack of a good fit for the linear regression model suggests that the relationship between heart rate and time elapsed is nonlinear. This means that the heart rate does not increase linearly with time elapsed.To better understand the relationship between heart rate and time elapsed, it would be necessary to use a nonlinear regression model. This type of model would be able to capture the nonlinear relationship between the two variables.

# Model 1.1 : Determining Nonlinearrity Plot

plot(data\_small$time\_elapsed, data\_small$heart\_rate, main = "Linear Regression Plot",  
 xlab = "Time Elapsed", ylab = "Heart Rate")  
abline(nonlinear\_model, col = "red")

 The plot shows the relationship between the variables “Time Elapsed” and “Heart Rate” in the data set. Each point in the plot represents a specific observation, with the x-axis representing the time elapsed and the y-axis representing the heart rate. The supine triangle points appear to follow a specific pattern or form, it suggesting a nonlinear relationship between these variables. The code chunk and the plot provided supports the nonlinearity of the data by showing that the exponential regression model fits the data better than the linear model.

# Checking Assumptions: Residuals

residuals <- resid(nonlinear\_model)  
  
head(residuals)

## 1 2 3 4 5 6   
## 7.817259 24.914395 -67.051303 19.828159 -8.058035 14.628118

The negative residual values (-67.051303, -8.058035) indicate overestimation of the model, while the positive residual values (7.817259, 24.914395, 19.828159, 14.628118) indicate underestimation of the model. Given that the residuals are not evenly distributed around zero, and are not constant across all levels, this suggests that the relationship between heart rate and time elapsed is nonlinear.

# Checking Assumptions: Shapiro-Wilk Normality Test of Residuals

The Shapiro-Wilk test assesses data for normal distribution, where a p-value less than 0.05 indicates that the null hypothesis of normality can be rejected, and the test statistic, W, is a value between 0 and 1.

shapiro\_test\_result <- shapiro.test(residuals)  
print(shapiro\_test\_result)

##   
## Shapiro-Wilk normality test  
##   
## data: residuals  
## W = 0.98546, p-value = 3.531e-07

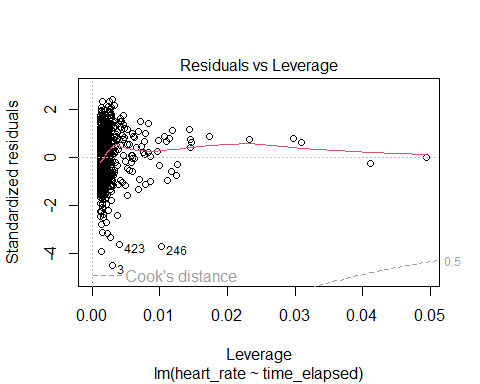
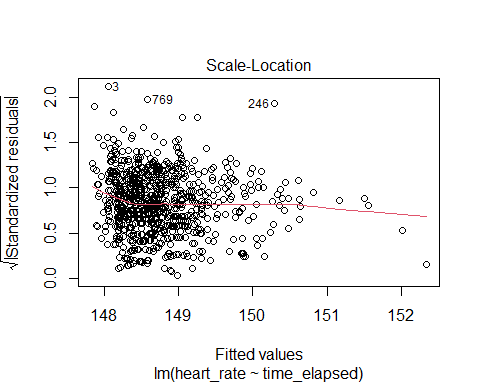
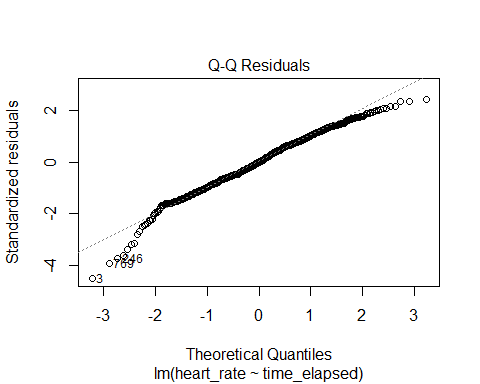
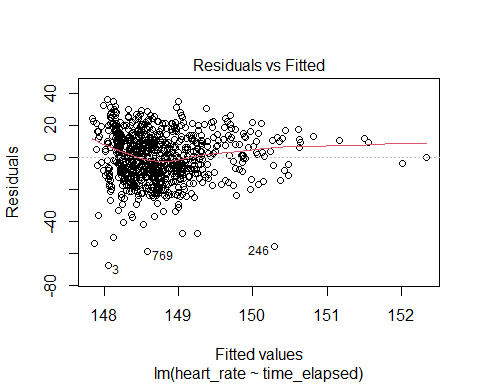
The p-value is 3.531e-07, which is less than 0.05, meaning that we can reject the null hypothesis of normality and conclude that the residuals of the model are not normally distributed. The test statistic (W), is a value close to 1 (0.98546) indicating that the residuals deviate less from a normal distribution, thus, suggesting normality.

The results of the Shapiro-Wilk normality test may be contradictory because the test is sensitive to the presence of non-normality in the data. Even if the data is only slightly non-normal, the test may reject the null hypothesis. To confirm whether the data is normally distributed, we can plot the residuals against the independent variable and look for any patterns. If the residuals show a pattern, this confirms that there is nonlinearity in the relationship between the independent and dependent variables.

# Checking Assumptions: Residuals Plot

We can examine the below plots to ensure that all data requirements are met.

plot(nonlinear\_model)



In the Q-Q plot, the points tend to lie along the dotted line, so the data is approximately normally distributed. In the Residuals vs Leverage plot, we do not see any influential points. In the Residuals vs Fitted plot, we do see the red line deviating a bit from the dotted line, giving us further evidence of a nonlinear relationship between the variables.

# Model 1.2 : Exponential Regression Model

Exponential regression is a type of nonlinear regression that models the relationship between the response variable and the predictor variable using an exponential function. An exponential regression model explains the growth or decay of processes by doubling the rate, and is best fit to the data set. The equation, is used to express exponential regression in an equation; where y is the dependent variable, x is the independent variable, a is a scale factor, and b is the rate of growth or decay.

The exponential function in the model means that the heart rate is expected to decrease exponentially with time elapsed. The relationship can be modeled utilizing the following: heart\_rate ~ a \* exp(b \* time\_elapsed), where heart\_rate is the dependent variable, and time\_elapsed is the independent variable.

It is common when fitting nonlinear models, that the initial parameter estimations for the model equations are provided by the users as can be seen below.

expo.model <- nls(heart\_rate ~ a \* exp(b \* time\_elapsed),   
 data = data\_small,   
 start = list(a = 150, b = -0.001))  
  
summary(expo.model)

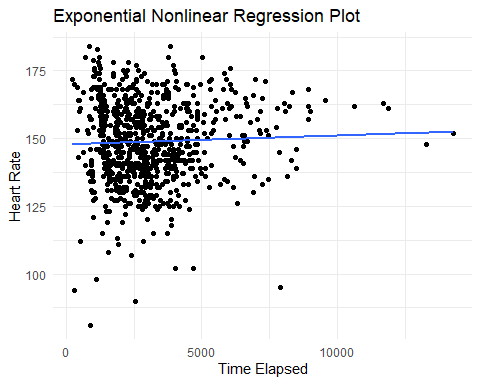
##   
## Formula: heart\_rate ~ a \* exp(b \* time\_elapsed)  
##   
## Parameters:  
## Estimate Std. Error t value Pr(>|t|)   
## a 1.477e+02 1.024e+00 144.284 <2e-16 \*\*\*  
## b 2.191e-06 1.947e-06 1.126 0.261   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 14.9 on 805 degrees of freedom  
##   
## Number of iterations to convergence: 6   
## Achieved convergence tolerance: 1.466e-06

The ‘a’ or amplitude, indicates the baseline heart rate or the heart rate at the beginning of the time elapsed, and is highly significant with a p-value of <2e-16. This suggests significant variation in heart rate and that the exponential function is not zero. The ‘b’ or rate of change, indicates how the heart rate changes as time elapses. The p-value of 0.261 suggests that the rate of change is different from zero, although it isn’t as significant as the amplitude. The residual standard error (RSE) of 14.9, represents the standard deviation of the residuals, and measures the model’s lack of fit to the data. The RSE is an acceptable value given that typical heart rate ranges between 60bpm and 200bpm, suggesting that the model’s predictions are closer to the actual observed values, and a better goodness of fit. The model converges after 6 iterations, with a convergence tolerance of 1.529e-06, suggesting that the model successfully found parameter estimates that minimized the sum of the squared residuals.

# Model 1.2 : Exponential Regression Model Plot

To obtain a visual representation of Model 1.2 nonlinear regression with variables heart\_rate and time\_elapsed, load and run the following chunk:

expo.model <- nls(heart\_rate ~ a \* exp(b \* time\_elapsed), data = data\_small, start = list(a = 150, b = -0.001))  
  
ggplot(data\_small, aes(x = time\_elapsed, y = heart\_rate)) +  
 geom\_point() +  
 geom\_smooth(method = "nls", formula = y ~ a \* exp(b \* x),  
 method.args = list(start = c(a = 150, b = -0.0001)), se = FALSE) +  
 labs(x = "Time Elapsed", y = "Heart Rate") +  
 ggtitle("Exponential Nonlinear Regression Plot") +  
 theme\_minimal()



The scatterplot (x = time elapsed, y = heart rate) identifies a nonlinear regressive pattern; more congestion is observed on the left side of the plot, and the relationship appears to deviate from a straight line. Nonlinear regression, as indicated above, acknowledges that an increase or decrease in one variable may not necessarily result in a proportional increase or decrease in the other variable. It’s important to note that the direction of this relationship depends on the sign of the estimated coefficient.

# Goodness of Fit Test: Exponential Regression Model

Compute the AIC and BIC values for exponential regression model to determine the goodness of fit.

expo.bic <- BIC(expo.model)  
expo.bic

## [1] 6668.358

expo.aic <- AIC(expo.model)  
expo.aic

## [1] 6654.278

The AIC value is 6654.278, and the BIC value is 6668.358 for the exponential regression model.

# Model 1.3 : Exponential Spline Regression Model

Exponential spline regression is a form of nonlinear regression that merges the adaptability of spline functions with an exponential structure. Spline regression entails fitting piecewise functions to the data, allowing for more complex and adaptable connections between the independent and dependent variables. When paired with an exponential model, it allows the modeling of nonlinear relationships displaying exponential growth or decay.

A spline regression is chosen to better demonstrate nonlinearity between the variables, heart rate and time elapsed. The family “Gaussian” is chosen under the assumption that the data is normally distributed. Run the following code chunk to obtain the statistical summary.

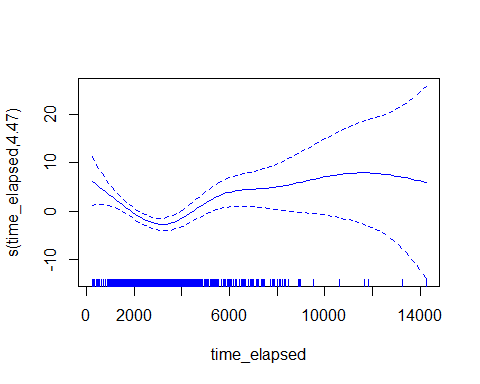
expo.spline <- gam(heart\_rate ~ s(time\_elapsed), data = data\_small, method = "REML")  
  
summary(expo.spline)

##   
## Family: gaussian   
## Link function: identity   
##   
## Formula:  
## heart\_rate ~ s(time\_elapsed)  
##   
## Parametric coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 148.7385 0.5165 287.9 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Approximate significance of smooth terms:  
## edf Ref.df F p-value   
## s(time\_elapsed) 4.469 5.529 4.699 0.000233 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## R-sq.(adj) = 0.0305 Deviance explained = 3.59%  
## -REML = 3315.2 Scale est. = 215.32 n = 807

The spline term for time\_elapsed has an estimated effective degrees of freedom (edf) of 4.469. This indicates the flexibility of the spline function in capturing the nonlinear relationship with time\_elapsed. The F-statistic of 4.699 and a very low p-value (0.000233) suggest that the spline term is statistically significant. The estimated intercept for the model is 148.7385, with a standard error of 0.5165 and a t-value of 287.9. The intercept is highly significant (p-value < 2e-16), indicating that it significantly contributes to the model. The REML value of 3315.2 indicates that the model is a good fit for the data. This is because the REML value is relatively low, which indicates that the model is not over fitting the data. The deviance explained is 3.59%, indicating that the model captures only a small portion of the variability in the data. Overall, the model suggests that there is a nonlinear relationship between heart rate and time elapsed.

# Model 1.3 : Exponential Spline Regression Plot

plot(expo.spline, se = TRUE, col = "blue")



The nonlinearity of the model is evident in the smooth term for time elapsed. The plot of the smooth term shows that the relationship between heart rate and time elapsed is nonlinear. The heart rate increases rapidly at first with time elapsed, but then gradually plateaus. Overall, the model provides a good fit to the data and suggests that there is a nonlinear relationship between heart rate and time elapsed.

# Goodness of Fit Test: Exponential Spline Regression Model

Compute the AIC and BIC values for exponential spline regression model to determine the goodness of fit.

expo.spline.bic <- BIC(expo.spline)  
expo.spline.bic

## [1] 6667.626

expo.spline.aic <- AIC(expo.spline)  
expo.spline.aic

## [1] 6634.229

The AIC value is 6634.229, and the BIC value is 6667.626 for the exponential spline regression model.

# Comparing AIC

Run the following code chunk to review what the AIC values were for all of the models.

expo.aic

## [1] 6654.278

expo.spline.aic

## [1] 6634.229

The exponential spline regression model AIC value (6634.229) is slightly lower than the exponential regression model AIC value (6654.278), which suggests that the exponential spline regression model is a better model.

# Comparing BIC

Run the following code chunk to review what the BIC values were for the models.

expo.bic

## [1] 6668.358

expo.spline.bic

## [1] 6667.626

The exponential spline regression model BIC value (6667.626) is slightly lower than the exponential regression model BIC value (6668.358), which suggests that the exponential spline regression model is a better model.

# Summary of AIC/BIC Values

Both the AIC and BIC values suggest that the exponential spline regression model is a better fit for the data than the exponential regression model, and is more likely to capture a nonlinear relationship between heart rate and time elapsed.

```