#105139 RITA Post Fran
RITA'S RIDE (#96047)
Wrightsville Beach/
Top Sail Island, NC
Sep 10-11, 1996
R.Thieler
NAVIGATION &
EG&G SIDESCAN LOG

USGS
science for a changing world
COASTAL AND MARINE GEOLOGY PRO
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# NAVIGATION LOG
+
EG&G Sidescan Tape + line Log

SHIP AND CRUISE: Rita's Ride - Post-Fran (hurricane)

AREA: Wrightsville Beach + Topsail Island, NC

DATES: Sep 10-11, 1996

CHIEF SCIENTIST: R. Thieler

readme

The file rita.txt is the sidescan data tape log, obtained from demuxing and processing of the sonar data.

There was no independent navigation logging. The file 96047.nav is a tab-delimited text file that has one-minute navigation fixes obtained from the demuxed sonar data. The format is as follows:

tapename/filename = data tape and file name. Note files come off the tape without any name using dd. The line names and numbers were assigned during processing.

time = time EDT (I think)

JD = Julian Day

longitude/latitude = decimal degrees, WGS84 ellipsoid

For example:

| tapename/filename | time | JD | longitude | latitude |
|---|---|---|---|---|
| fran_tape1/line03 | 14:46:00 | 254 | -77.772346 | 34.225102 |
| fran_tape1/line03 | 14:49:00 | 254 | -77.769447 | 34.229149 |
| fran_tape1/line03 | 14:50:00 | 254 | -77.768463 | 34.230534 |
| fran_tape1/line03 | 14:52:16 | 254 | -77.765831 | 34.233002 |
| fran_tape1/line04 | 14:52:22 | 254 | -77.765701 | 34.232983 |
| fran_tape1/line04 | 14:53:00 | 254 | -77.764603 | 34.232632 |
| fran_tape1/line04 | 14:54:00 | 254 | -77.763001 | 34.231884 |
| fran_tape1/line04 | 14:55:00 | 254 | -77.762383 | 34.230766 |

RITA 96047
Wrightsville Beach and Topsail Island, NC Inner Shelf
10-11 September 1996 (after hurricane Fran)
E. R. Thieler, Chief Scientist
N. Gielstra, Technician

Sidescan data tape log

Data tapes are in EG&G format. No altitude in header.
System used was VIMS EG&G 272TD towfish at 100kHz,
EG&G 380 tape unit, EG&G 260TH thermal recorder;
Magellan Nav5000 GPS with USCG beacon DGPS in real-time.

Note there are no digital data for line01. Paper record only.

Data tape/file name = fran_tape1/line02
Swath width = 200 meters
File start time = 254 13:35:60.000
File end time = 254 14:11: 4.129

Data tape/file name = fran_tape1/line03
Swath width = 200 meters
File start time = 254 14:12: 0.000
File end time = 254 14:52:15.118

Data tape/file name = fran_tape1/line04
Swath width = 200 meters
File start time = 254 14:52:22.000
File end time = 254 15:35:13.100

Data tape/file name = fran_tape1/line05
Swath width = 300 meters
File start time = 254 15:35:20.000
File end time = 254 16:12: 4.668

Data tape/file name = fran_tape1/line06
Swath width = 300 meters
File start time = 254 16:11:19.000
File end time = 254 17:01:58.636

Data tape/file name = fran_tape1/line07
Swath width = 300 meters
File start time = 254 17:02:30.000
File end time = 254 17:56: 8.651

Data tape/file name = fran_tape1/line08
Swath width = 300 meters
File start time = 254 17:56:18.000
File end time = 254 19:00:49.651

Data tape/file name = fran_tape2/line08a
Swath width = 300 meters
File start time = 254 19:02:38.000
File end time = 254 20:04: 7.644

Data tape/file name = fran_tape2/line09
Swath width = 200 meters
File start time = 254 20:04:16.000

File end time = 254 20:17: 9.099

Data tape/file name = fran_tape2/line10
Swath width = 200 meters
File start time = 254 20:17:17.000
File end time = 254 21:09:50.100

Data tape/file name = fran_tape3/line11
Swath width = 200 meters
File start time = 255 11:52:23.000
File end time = 255 12:36:27.100

Data tape/file name = fran_tape3/line12
Swath width = 200 meters
File start time = 255 13:18:43.000
File end time = 255 14:18: 4.101

Data tape/file name = fran_tape3/line13
Swath width = 200 meters
File start time = 255 14:18:14.000
File end time = 255 15:05:33.100

Data tape/file name = fran_tape4/line14
Swath width = 300 meters
File start time = 255 15:22:11.000
File end time = 255 16:22:36.619

Data tape/file name = fran_tape4/line15
Swath width = 400 meters
File start time = 255 16:22:43.000
File end time = 255 17:27:14.200

Data tape/file name = fran_tape4/line16
Swath width = 400 meters
File start time = 255 17:27:24.000
File end time = 255 18:28:25.202

Data tape/file name = fran_tape4/line17
Swath width = 300 meters
File start time = 255 19:26:11.000
File end time = 255 20:18:13.650

Data tape/file name = fran_tape4/line18
Swath width = 300 meters
File start time = 255 20:18:20.000
File end time = 255 20:51:59.650

Data tape/file name = fran_tape4/line19
Swath width = 300 meters
File start time = 255 20:52: 7.000
File end time = 255 21:43:21.650

| | | | | |
|---|---|---|---|---|
| fran_tape1/line02 | 13:36:00 | 254 | -77.771446 | 34.231285 |
| fran_tape1/line02 | 13:37:00 | 254 | -77.772698 | 34.230202 |
| fran_tape1/line02 | 13:38:00 | 254 | -77.773865 | 34.229134 |
| fran_tape1/line02 | 13:39:00 | 254 | -77.774986 | 34.227951 |
| fran_tape1/line02 | 13:40:00 | 254 | -77.776131 | 34.226799 |
| fran_tape1/line02 | 13:42:00 | 254 | -77.777901 | 34.224216 |
| fran_tape1/line02 | 13:43:00 | 254 | -77.778717 | 34.222817 |
| fran_tape1/line02 | 13:44:00 | 254 | -77.779648 | 34.221668 |
| fran_tape1/line02 | 13:45:00 | 254 | -77.780464 | 34.220417 |
| fran_tape1/line02 | 13:46:00 | 254 | -77.781265 | 34.219166 |
| fran_tape1/line02 | 13:47:00 | 254 | -77.782120 | 34.216900 |
| fran_tape1/line02 | 13:49:00 | 254 | -77.783234 | 34.216301 |
| fran_tape1/line02 | 13:53:00 | 254 | -77.787582 | 34.210266 |
| fran_tape1/line02 | 13:54:00 | 254 | -77.788513 | 34.209251 |
| fran_tape1/line02 | 13:55:00 | 254 | -77.789353 | 34.207985 |
| fran_tape1/line02 | 13:56:00 | 254 | -77.790451 | 34.206833 |
| fran_tape1/line02 | 13:57:00 | 254 | -77.791481 | 34.205635 |
| fran_tape1/line02 | 13:58:00 | 254 | -77.792564 | 34.204483 |
| fran_tape1/line02 | 14:00:00 | 254 | -77.794281 | 34.202015 |
| fran_tape1/line02 | 14:01:00 | 254 | -77.795486 | 34.200916 |
| fran_tape1/line02 | 14:02:00 | 254 | -77.796387 | 34.199719 |
| fran_tape1/line02 | 14:03:00 | 254 | -77.796951 | 34.198601 |
| fran_tape1/line02 | 14:05:00 | 254 | -77.798714 | 34.195801 |
| fran_tape1/line02 | 14:06:00 | 254 | -77.799530 | 34.194534 |
| fran_tape1/line02 | 14:07:00 | 254 | -77.800369 | 34.193283 |
| fran_tape1/line02 | 14:08:00 | 254 | -77.801354 | 34.191532 |
| fran_tape1/line02 | 14:09:00 | 254 | -77.802597 | 34.190868 |
| fran_tape1/line02 | 14:11:05 | 254 | -77.804047 | 34.188099 |
| fran_tape1/line03 | 14:12:00 | 254 | -77.802918 | 34.187317 |
| fran_tape1/line03 | 14:13:00 | 254 | -77.801300 | 34.186749 |
| fran_tape1/line03 | 14:16:00 | 254 | -77.797996 | 34.185818 |
| fran_tape1/line03 | 14:17:00 | 254 | -77.799637 | 34.186466 |
| fran_tape1/line03 | 14:18:00 | 254 | -77.799202 | 34.187832 |
| fran_tape1/line03 | 14:19:00 | 254 | -77.798348 | 34.189251 |
| fran_tape1/line03 | 14:21:00 | 254 | -77.796402 | 34.191799 |
| fran_tape1/line03 | 14:22:00 | 254 | -77.795486 | 34.193149 |
| fran_tape1/line03 | 14:23:00 | 254 | -77.794517 | 34.194466 |
| fran_tape1/line03 | 14:24:00 | 254 | -77.793587 | 34.195835 |
| fran_tape1/line03 | 14:25:00 | 254 | -77.792648 | 34.197151 |
| fran_tape1/line03 | 14:26:00 | 254 | -77.791718 | 34.198502 |
| fran_tape1/line03 | 14:27:00 | 254 | -77.790802 | 34.199848 |
| fran_tape1/line03 | 14:29:00 | 254 | -77.788483 | 34.202217 |
| fran_tape1/line03 | 14:30:00 | 254 | -77.787369 | 34.203518 |
| fran_tape1/line03 | 14:31:00 | 254 | -77.786583 | 34.204834 |
| fran_tape1/line03 | 14:33:00 | 254 | -77.784470 | 34.207985 |
| fran_tape1/line03 | 14:34:00 | 254 | -77.783714 | 34.209099 |
| fran_tape1/line03 | 14:35:00 | 254 | -77.782898 | 34.210301 |
| fran_tape1/line03 | 14:36:00 | 254 | -77.781937 | 34.211651 |
| fran_tape1/line03 | 14:37:00 | 254 | -77.780983 | 34.212952 |
| fran_tape1/line03 | 14:38:00 | 254 | -77.780037 | 34.214317 |
| fran_tape1/line03 | 14:39:00 | 254 | -77.779068 | 34.215633 |
| fran_tape1/line03 | 14:40:00 | 254 | -77.778114 | 34.216969 |
| fran_tape1/line03 | 14:41:00 | 254 | -77.777153 | 34.218368 |
| fran_tape1/line03 | 14:42:00 | 254 | -77.776184 | 34.219715 |
| fran_tape1/line03 | 14:43:00 | 254 | -77.775230 | 34.221066 |
| fran_tape1/line03 | 14:44:00 | 254 | -77.774269 | 34.222382 |
| fran_tape1/line03 | 14:46:00 | 254 | -77.772346 | 34.225102 |
| fran_tape1/line03 | 14:49:00 | 254 | -77.769447 | 34.229149 |
| fran_tape1/line03 | 14:50:00 | 254 | -77.768463 | 34.230534 |
| fran_tape1/line03 | 14:52:16 | 254 | -77.765831 | 34.233002 |
| fran_tape1/line04 | 14:52:22 | 254 | -77.765701 | 34.232983 |

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|---|---|---|---|---|
| fran_tape1/line04 | 14:53:00 | 254 | -77.764603 | 34.232632 |
| fran_tape1/line04 | 14:54:00 | 254 | -77.763001 | 34.231884 |
| fran_tape1/line04 | 14:55:00 | 254 | -77.762383 | 34.230766 |
| fran_tape1/line04 | 14:56:00 | 254 | -77.763252 | 34.229515 |
| fran_tape1/line04 | 14:57:00 | 254 | -77.764114 | 34.228184 |
| fran_tape1/line04 | 14:59:00 | 254 | -77.766037 | 34.225868 |
| fran_tape1/line04 | 15:00:00 | 254 | -77.767037 | 34.224701 |
| fran_tape1/line04 | 15:01:00 | 254 | -77.767983 | 34.223499 |
| fran_tape1/line04 | 15:02:00 | 254 | -77.768883 | 34.222252 |
| fran_tape1/line04 | 15:03:00 | 254 | -77.769813 | 34.221050 |
| fran_tape1/line04 | 15:04:00 | 254 | -77.770782 | 34.219799 |
| fran_tape1/line04 | 15:07:00 | 254 | -77.773598 | 34.216068 |
| fran_tape1/line04 | 15:08:00 | 254 | -77.774536 | 34.214851 |
| fran_tape1/line04 | 15:10:00 | 254 | -77.776451 | 34.212398 |
| fran_tape1/line04 | 15:11:00 | 254 | -77.777397 | 34.211132 |
| fran_tape1/line04 | 15:12:00 | 254 | -77.778381 | 34.209915 |
| fran_tape1/line04 | 15:13:00 | 254 | -77.779381 | 34.208683 |
| fran_tape1/line04 | 15:14:00 | 254 | -77.780319 | 34.207035 |
| fran_tape1/line04 | 15:15:00 | 254 | -77.781319 | 34.206249 |
| fran_tape1/line04 | 15:16:00 | 254 | -77.782463 | 34.205200 |
| fran_tape1/line04 | 15:17:00 | 254 | -77.783386 | 34.203998 |
| fran_tape1/line04 | 15:18:00 | 254 | -77.784737 | 34.202885 |
| fran_tape1/line04 | 15:19:00 | 254 | -77.785599 | 34.201618 |
| fran_tape1/line04 | 15:20:00 | 254 | -77.786499 | 34.200367 |
| fran_tape1/line04 | 15:22:00 | 254 | -77.788635 | 34.197983 |
| fran_tape1/line04 | 15:23:00 | 254 | -77.789719 | 34.196800 |
| fran_tape1/line04 | 15:24:00 | 254 | -77.790749 | 34.195618 |
| fran_tape1/line04 | 15:25:00 | 254 | -77.791832 | 34.194435 |
| fran_tape1/line04 | 15:26:00 | 254 | -77.792869 | 34.193298 |
| fran_tape1/line04 | 15:27:00 | 254 | -77.793899 | 34.192082 |
| fran_tape1/line04 | 15:28:00 | 254 | -77.794937 | 34.190815 |
| fran_tape1/line04 | 15:29:00 | 254 | -77.795914 | 34.189602 |
| fran_tape1/line04 | 15:30:00 | 254 | -77.796936 | 34.188385 |
| fran_tape1/line04 | 15:31:00 | 254 | -77.797951 | 34.187168 |
| fran_tape1/line04 | 15:32:00 | 254 | -77.798981 | 34.185902 |
| fran_tape1/line04 | 15:33:00 | 254 | -77.799851 | 34.184666 |
| fran_tape1/line04 | 15:34:00 | 254 | -77.798699 | 34.183651 |
| fran_tape1/line04 | 15:35:00 | 254 | -77.797234 | 34.182850 |
| fran_tape1/line04 | 15:35:14 | 254 | -77.796867 | 34.182651 |
| fran_tape1/line05 | 15:35:20 | 254 | -77.796730 | 34.182568 |
| fran_tape1/line05 | 15:36:00 | 254 | -77.795631 | 34.182018 |
| fran_tape1/line05 | 15:38:00 | 254 | -77.793449 | 34.183300 |
| fran_tape1/line05 | 15:39:00 | 254 | -77.792183 | 34.184502 |
| fran_tape1/line05 | 15:40:00 | 254 | -77.790970 | 34.185749 |
| fran_tape1/line05 | 15:41:00 | 254 | -77.789917 | 34.187084 |
| fran_tape1/line05 | 15:42:00 | 254 | -77.788818 | 34.188301 |
| fran_tape1/line05 | 15:43:00 | 254 | -77.787697 | 34.189602 |
| fran_tape1/line05 | 15:44:00 | 254 | -77.786667 | 34.190899 |
| fran_tape1/line05 | 15:47:00 | 254 | -77.783386 | 34.194801 |
| fran_tape1/line05 | 15:48:00 | 254 | -77.782181 | 34.195984 |
| fran_tape1/line05 | 15:49:00 | 254 | -77.781082 | 34.197285 |
| fran_tape1/line05 | 15:51:00 | 254 | -77.778900 | 34.199932 |
| fran_tape1/line05 | 15:52:00 | 254 | -77.777786 | 34.201218 |
| fran_tape1/line05 | 15:53:00 | 254 | -77.776665 | 34.202499 |
| fran_tape1/line05 | 15:55:00 | 254 | -77.774551 | 34.205185 |
| fran_tape1/line05 | 15:56:00 | 254 | -77.773430 | 34.206451 |
| fran_tape1/line05 | 15:58:00 | 254 | -77.771217 | 34.209034 |
| fran_tape1/line05 | 15:59:00 | 254 | -77.770081 | 34.210384 |
| fran_tape1/line05 | 16:01:00 | 254 | -77.767769 | 34.212933 |
| fran_tape1/line05 | 16:02:00 | 254 | -77.766884 | 34.214416 |
| fran_tape1/line05 | 16:03:00 | 254 | -77.765633 | 34.215515 |

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|---|---|---|---|---|
| fran_tape1/line05 | 16:04:00 | 254 | -77.764504 | 34.216701 |
| fran_tape1/line05 | 16:06:00 | 254 | -77.762314 | 34.219482 |
| fran_tape1/line05 | 16:07:00 | 254 | -77.761284 | 34.220699 |
| fran_tape1/line05 | 16:08:00 | 254 | -77.760063 | 34.221882 |
| fran_tape1/line05 | 16:09:00 | 254 | -77.758965 | 34.223251 |
| fran_tape1/line05 | 16:10:00 | 254 | -77.757897 | 34.224449 |
| fran_tape1/line05 | 16:12:00 | 254 | -77.755585 | 34.226967 |
| fran_tape1/line05 | 16:12:06 | 254 | -77.755447 | 34.227116 |
| fran_tape1/line06 | 16:11:19 | 254 | -77.755264 | 34.228699 |
| fran_tape1/line06 | 16:13:00 | 254 | -77.753998 | 34.226784 |
| fran_tape1/line06 | 16:15:00 | 254 | -77.750984 | 34.225735 |
| fran_tape1/line06 | 16:16:00 | 254 | -77.749603 | 34.224667 |
| fran_tape1/line06 | 16:17:00 | 254 | -77.749733 | 34.223701 |
| fran_tape1/line06 | 16:18:00 | 254 | -77.750885 | 34.222549 |
| fran_tape1/line06 | 16:19:00 | 254 | -77.751816 | 34.221367 |
| fran_tape1/line06 | 16:21:00 | 254 | -77.753914 | 34.218800 |
| fran_tape1/line06 | 16:22:00 | 254 | -77.754967 | 34.217449 |
| fran_tape1/line06 | 16:23:00 | 254 | -77.755768 | 34.216484 |
| fran_tape1/line06 | 16:25:00 | 254 | -77.757782 | 34.213982 |
| fran_tape1/line06 | 16:26:00 | 254 | -77.758720 | 34.212665 |
| fran_tape1/line06 | 16:27:00 | 254 | -77.759613 | 34.211399 |
| fran_tape1/line06 | 16:28:00 | 254 | -77.760567 | 34.210133 |
| fran_tape1/line06 | 16:30:00 | 254 | -77.762436 | 34.207649 |
| fran_tape1/line06 | 16:31:00 | 254 | -77.763397 | 34.206432 |
| fran_tape1/line06 | 16:32:00 | 254 | -77.764397 | 34.205216 |
| fran_tape1/line06 | 16:33:00 | 254 | -77.765450 | 34.203968 |
| fran_tape1/line06 | 16:34:00 | 254 | -77.766449 | 34.202648 |
| fran_tape1/line06 | 16:35:00 | 254 | -77.767418 | 34.201401 |
| fran_tape1/line06 | 16:36:00 | 254 | -77.768402 | 34.200134 |
| fran_tape1/line06 | 16:38:00 | 254 | -77.770653 | 34.197868 |
| fran_tape1/line06 | 16:39:00 | 254 | -77.771782 | 34.196731 |
| fran_tape1/line06 | 16:40:00 | 254 | -77.772965 | 34.195568 |
| fran_tape1/line06 | 16:41:00 | 254 | -77.774117 | 34.194401 |
| fran_tape1/line06 | 16:43:00 | 254 | -77.776436 | 34.192116 |
| fran_tape1/line06 | 16:44:00 | 254 | -77.777603 | 34.190933 |
| fran_tape1/line06 | 16:45:00 | 254 | -77.778717 | 34.189835 |
| fran_tape1/line06 | 16:46:00 | 254 | -77.779900 | 34.188633 |
| fran_tape1/line06 | 16:47:00 | 254 | -77.781036 | 34.187515 |
| fran_tape1/line06 | 16:48:00 | 254 | -77.782204 | 34.186352 |
| fran_tape1/line06 | 16:49:00 | 254 | -77.783302 | 34.185215 |
| fran_tape1/line06 | 16:50:00 | 254 | -77.784470 | 34.184067 |
| fran_tape1/line06 | 16:51:00 | 254 | -77.785599 | 34.182934 |
| fran_tape1/line06 | 16:52:00 | 254 | -77.786720 | 34.181767 |
| fran_tape1/line06 | 16:53:00 | 254 | -77.787781 | 34.180733 |
| fran_tape1/line06 | 16:55:00 | 254 | -77.789947 | 34.178516 |
| fran_tape1/line06 | 16:56:00 | 254 | -77.791054 | 34.177318 |
| fran_tape1/line06 | 16:57:00 | 254 | -77.792053 | 34.176216 |
| fran_tape1/line06 | 16:58:00 | 254 | -77.793114 | 34.174934 |
| fran_tape1/line06 | 17:02:00 | 254 | -77.796982 | 34.169983 |
| fran_tape1/line07 | 17:02:30 | 254 | -77.797402 | 34.169300 |
| fran_tape1/line07 | 17:03:00 | 254 | -77.796951 | 34.168568 |
| fran_tape1/line07 | 17:05:00 | 254 | -77.794464 | 34.165833 |
| fran_tape1/line07 | 17:06:00 | 254 | -77.793137 | 34.164650 |
| fran_tape1/line07 | 17:07:00 | 254 | -77.791565 | 34.165402 |
| fran_tape1/line07 | 17:09:00 | 254 | -77.789047 | 34.167866 |
| fran_tape1/line07 | 17:10:00 | 254 | -77.787766 | 34.169132 |
| fran_tape1/line07 | 17:11:00 | 254 | -77.786468 | 34.170467 |
| fran_tape1/line07 | 17:12:00 | 254 | -77.785233 | 34.171665 |
| fran_tape1/line07 | 17:13:00 | 254 | -77.784065 | 34.172882 |
| fran_tape1/line07 | 17:15:00 | 254 | -77.781769 | 34.174999 |
| fran_tape1/line07 | 17:16:00 | 254 | -77.780350 | 34.177784 |

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|---|---|---|---|---|
| fran_tape1/line07 | 17:17:00 | 254 | -77.778847 | 34.178650 |
| fran_tape1/line07 | 17:18:00 | 254 | -77.777634 | 34.179951 |
| fran_tape1/line07 | 17:19:00 | 254 | -77.776253 | 34.181000 |
| fran_tape1/line07 | 17:20:00 | 254 | -77.775185 | 34.182617 |
| fran_tape1/line07 | 17:21:00 | 254 | -77.774201 | 34.184235 |
| fran_tape1/line07 | 17:22:00 | 254 | -77.773117 | 34.185818 |
| fran_tape1/line07 | 17:23:00 | 254 | -77.772034 | 34.187233 |
| fran_tape1/line07 | 17:25:00 | 254 | -77.769668 | 34.189133 |
| fran_tape1/line07 | 17:26:00 | 254 | -77.768616 | 34.190498 |
| fran_tape1/line07 | 17:27:00 | 254 | -77.767868 | 34.192234 |
| fran_tape1/line07 | 17:28:00 | 254 | -77.767014 | 34.193951 |
| fran_tape1/line07 | 17:29:00 | 254 | -77.766220 | 34.195518 |
| fran_tape1/line07 | 17:30:00 | 254 | -77.765434 | 34.196968 |
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| fran_tape1/line07 | 17:35:00 | 254 | -77.761116 | 34.204800 |
| fran_tape1/line07 | 17:36:00 | 254 | -77.760315 | 34.206432 |
| fran_tape1/line07 | 17:37:00 | 254 | -77.759483 | 34.207966 |
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| fran_tape1/line07 | 17:56:10 | 254 | -77.742630 | 34.236900 |
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| fran_tape2/line08a | 19:45:00 | 254 | -77.746201 | 34.211666 |
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