

## FLIGHT SUMMARY REPORT

**Flight Number:** 02-911  
**Calendar/Julian Date:** 29 October 2001 • 302  
**Sensor Package:** Wild-Heerbrugg RC-30  
MODIS/ASTER Airborne Simulator (MASTER)  
Airborne Visible/Infrared Imaging Spectrometer  
(AVIRIS)  
**Area(s) Covered:** Big Island of Hawaii, Molokai, Maui  
**Investigator(s):** Kahle, JPL; Asner, U of Colorado      **Aircraft #:** 809

### SENSOR DATA

|                       |                                       |        |        |
|-----------------------|---------------------------------------|--------|--------|
| <b>Accession #:</b>   | 05662                                 | -----  | -----  |
| <b>Sensor ID #:</b>   | 132                                   | 124    | 099    |
| <b>Sensor Type:</b>   | RC-30                                 | MASTER | AVIRIS |
| <b>Focal Length:</b>  | 12"<br>303.12 mm                      | -----  | -----  |
| <b>Film Type:</b>     | Aerochrome IR<br>SO-134               | -----  | -----  |
| <b>Filtration:</b>    | Wratten 12                            | -----  | -----  |
| <b>Spectral Band:</b> | 510-900nm                             | -----  | -----  |
| <b>f Stop:</b>        | 11                                    | -----  | -----  |
| <b>Shutter Speed:</b> | 1/350                                 | -----  | -----  |
| <b># of Frames:</b>   | 80                                    | -----  | -----  |
| <b>% Overlap:</b>     | 60%                                   | -----  | -----  |
| <b>Quality:</b>       | Excellent                             | -----  | -----  |
| <b>Remarks:</b>       | Subtract 3 seconds<br>for correct UTC |        |        |

**CAMERA FLIGHT LINE DATA**  
**FLIGHT NO. 02-911**

Accession # 05662

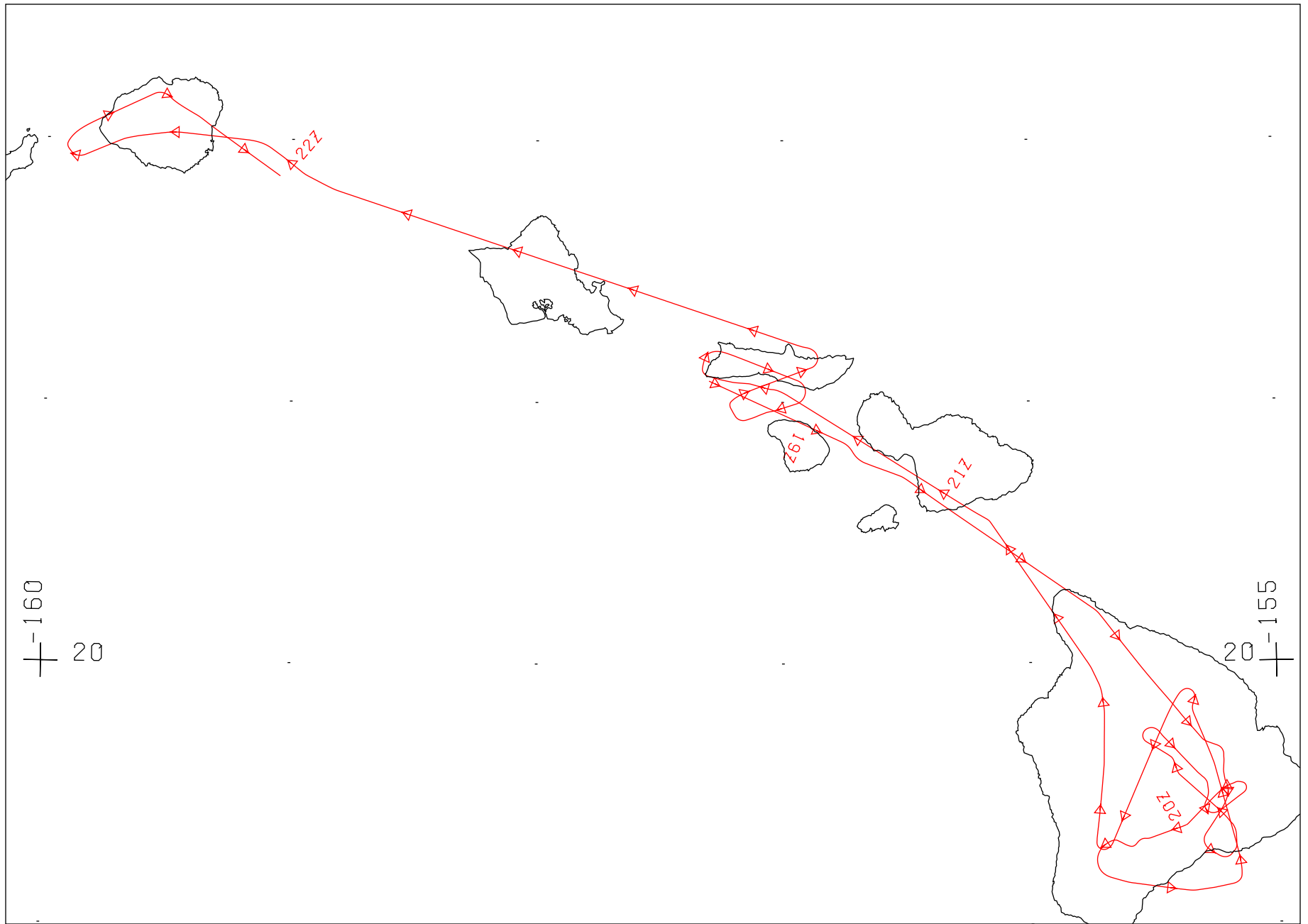
Sensor # 132

| Check Points | Frame Numbers | Time (GMT-hr, min, sec) |          | Altitude, MSL<br>feet/meters | Cloud Cover/Remarks  |
|--------------|---------------|-------------------------|----------|------------------------------|--|
|              |               | START                   | END      |                              |  |
| A - B        | 1965-1969     | 19:26:24                | 19:28:19 | 34900/10640                  | 50-90% cumulus   |
| C - D        | 1970-1979     | 19:34:10                | 19:38:28 | 34900/10640                  | 60-90% cumulus; frames 1970-1971 oblique   |
| E - F        | 1980-1985     | 19:56:41                | 19:59:04 | 34900/10640                  | 50-90% cumulus, frames 1980-1983; 10-30% cumulus frames 1984-1985                          |
| G - C        | 1986-1993     | 20:15:29                | 20:18:48 | 34900/10640                  | 10% cumulus, frames 1986-1989; 30-90% cumulus frames 1990-1993                             |
| H - I        | 1994-2011     | 20:28:55                | 20:36:59 | 45100/13750                  | 30-70% cumulus, frames 1994-2000; 10% cumulus frame 2001; 20-40% cumulus, frames 2008-2011 |
| J - K        | 2012-2022     | 21:17:40                | 21:22:23 | 34900/10640                  | Minor cumulus frame 2015   |
| L - M        | 2023-2033     | 21:31:12                | 21:35:56 | 34900/10640                  | 20-70% cumulus, frames 2031-2033   |
| N - O        | 2034-2044     | 22:14:04                | 22:18:49 | 35000/10670                  | 10% cumulus, frames 2036-2038; minor-30% cumulus, frames 2042-2044                         |

MODIS/ASTER AIRBORNE SIMULATOR (MASTER) FLIGHT LINE INFORMATION FOR 29 Oct 2001  
 NASA FLIGHT NUMBER 02-911-00

| FILE | SITE | LINE | RUN | START OF FLIGHT LINE |            |            | END OF FLIGHT LINE |            |            | FLIGHT DATA   |              |       |             |                |
|------|------|------|-----|----------------------|------------|------------|--------------------|------------|------------|---------------|--------------|-------|-------------|----------------|
|      |      |      |     | TIME<br>HH:MM:SS     | LAT<br>DEG | LON<br>DEG | TIME<br>HH:MM:SS   | LAT<br>DEG | LON<br>DEG | SCAN<br>LINES | SOLAR<br>ZEN | AZIM  | HEAD<br>DEG | ALT<br>M (GPS) |
| 1    | 0    | 0    | 1   | 18:55:50             | 21.071     | -157.269   | 19:02:00           | 20.847     | -156.752   | 2310          | 108.4        | 262.0 | 110.62      | 14300          |
| 2    | 0    | 0    | 1   | 19:04:58             | 20.709     | -156.502   | 19:11:00           | 20.384     | -156.010   | 2260          | 110.5        | 262.4 | 121.16      | 14292          |
| 3    | 0    | 0    | 1   | 19:15:00             | 20.159     | -155.694   | 19:21:49           | 19.705     | -155.307   | 2560          | 112.8        | 262.9 | 141.97      | 12363          |
| 4    | 0    | 0    | 1   | 19:25:34             | 19.510     | -155.203   | 19:29:31           | 19.340     | -155.293   | 1482          | 114.9        | 263.4 | 202.32      | 10644          |
| 5    | 0    | 0    | 1   | 19:34:45             | 19.386     | -155.198   | 19:40:07           | 19.565     | -155.397   | 2015          | 117.2        | 264.1 | 318.49      | 10652          |
| 6    | 0    | 0    | 1   | 19:55:16             | 19.527     | -155.191   | 19:59:47           | 19.379     | -155.364   | 1696          | 121.9        | 265.5 | 244.02      | 10655          |
| 7    | 0    | 0    | 1   | 20:08:41             | 19.155     | -155.603   | 20:11:27           | 19.124     | -155.364   | 1039          | 124.9        | 266.2 | 98.78       | 10626          |
| 8    | 0    | 0    | 1   | 20:14:27             | 19.178     | -155.152   | 20:22:09           | 19.601     | -155.255   | 2893          | 126.8        | 267.0 | 352.00      | 11596          |
| 9    | 0    | 0    | 1   | 20:26:58             | 19.875     | -155.396   | 20:37:24           | 19.309     | -155.669   | 3919          | 130.1        | 268.2 | 215.09      | 13725          |
| 10   | 0    | 0    | 1   | 20:39:06             | 19.330     | -155.733   | 20:45:54           | 19.876     | -155.707   | 2554          | 132.5        | 269.0 | 358.00      | 13204          |
| 11   | 0    | 0    | 1   | 20:47:38             | 19.999     | -155.764   | 20:57:25           | 20.537     | -156.152   | 3677          | 134.9        | 270.5 | 329.05      | 11232          |
| 12   | 0    | 0    | 1   | 20:57:41             | 20.548     | -156.165   | 21:09:39           | 21.043     | -157.010   | 4499          | 137.5        | 272.1 | 303.60      | 10610          |
| 13   | 0    | 0    | 1   | 21:16:17             | 21.195     | -157.267   | 21:22:45           | 21.082     | -156.932   | 2429          | 141.1        | 274.1 | 93.06       | 10638          |
| 14   | 0    | 0    | 1   | 21:29:08             | 21.004     | -157.204   | 21:36:10           | 21.132     | -156.877   | 2646          | 144.2        | 275.5 | 59.34       | 10625          |
| 15   | 0    | 0    | 1   | 21:38:07             | 21.212     | -156.914   | 21:58:08           | 21.805     | -158.810   | 7509          | 147.7        | 278.3 | 294.72      | 10645          |
| 16   | 0    | 0    | 1   | 22:02:14             | 21.997     | -159.179   | 22:05:03           | 22.023     | -159.461   | 1057          | 151.2        | 281.5 | 282.95      | 10661          |
| 17   | 0    | 0    | 1   | 22:11:17             | 21.982     | -159.916   | 22:19:18           | 22.170     | -159.565   | 3011          | 153.8        | 283.9 | 52.28       | 10663          |
| 18   | 0    | 0    | 1   | 22:22:19             | 22.085     | -159.383   | 22:26:23           | 21.910     | -159.122   | 1526          | 155.9        | 285.7 | 116.21      | 10648          |

NUMBER OF FILES FOR THIS FLIGHT = 18  
 TOTAL NUMBER OF SCAN LINES = 49082  
 DATE THESE FILES WERE PROCESSED = 18-Mar-2002  
 DATE THIS LIST WAS CREATED = Tue Mar 19 10:57:30 PST 2002  
 GRANULE VERSION = 1

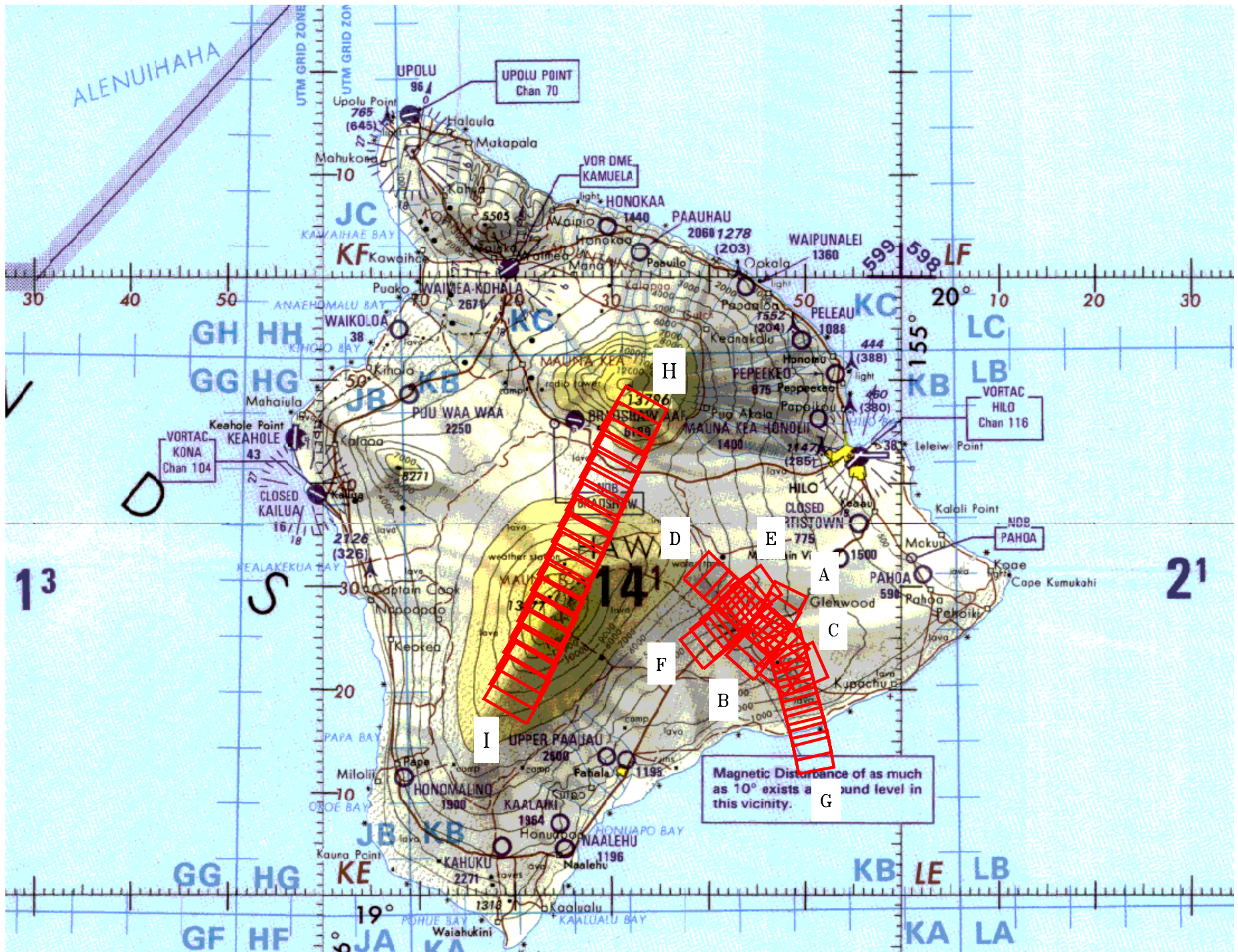


FLIGHT 02-911

29 OCTOBER 2001

A/C 809

RC-30 / MASTER / AVIRIS



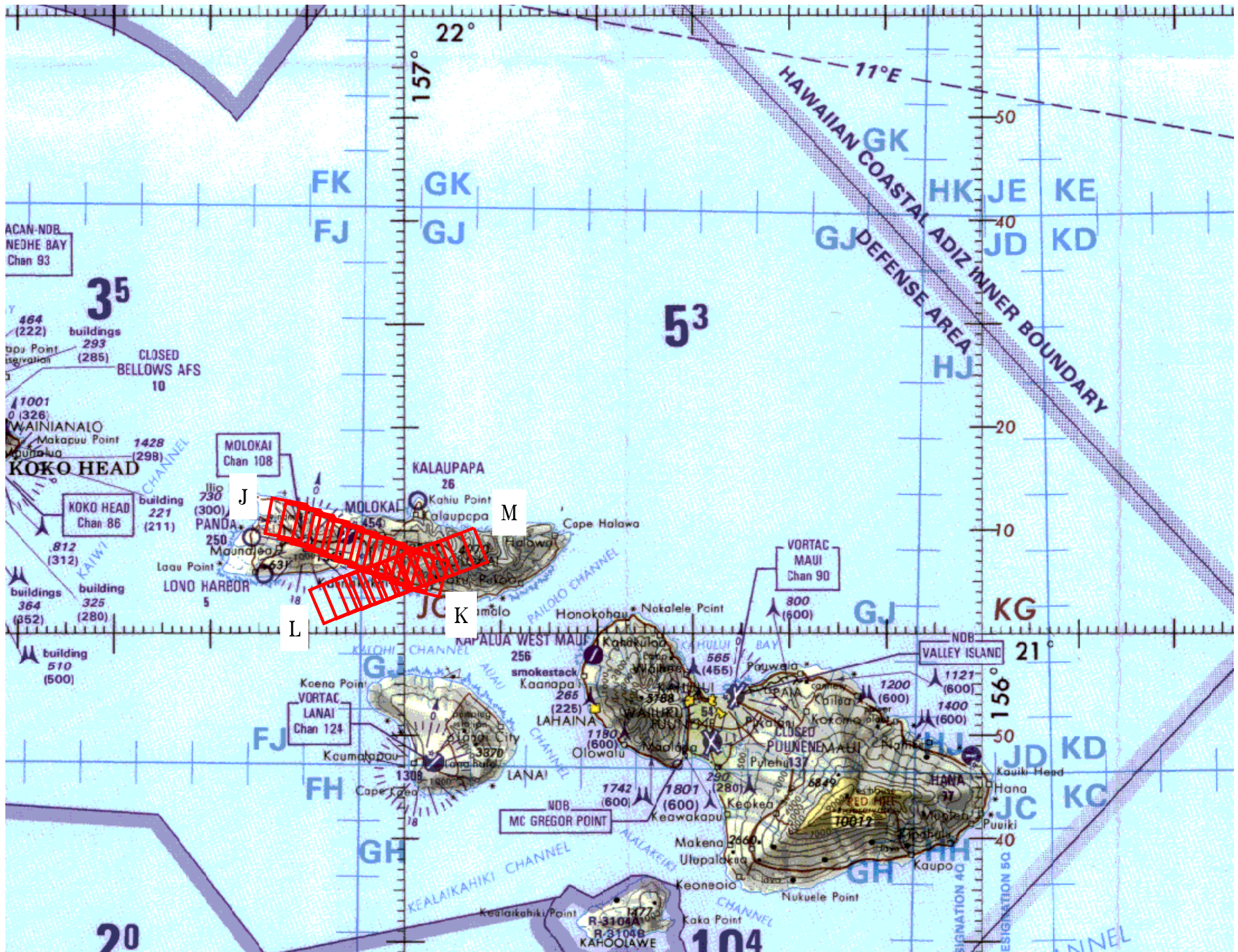
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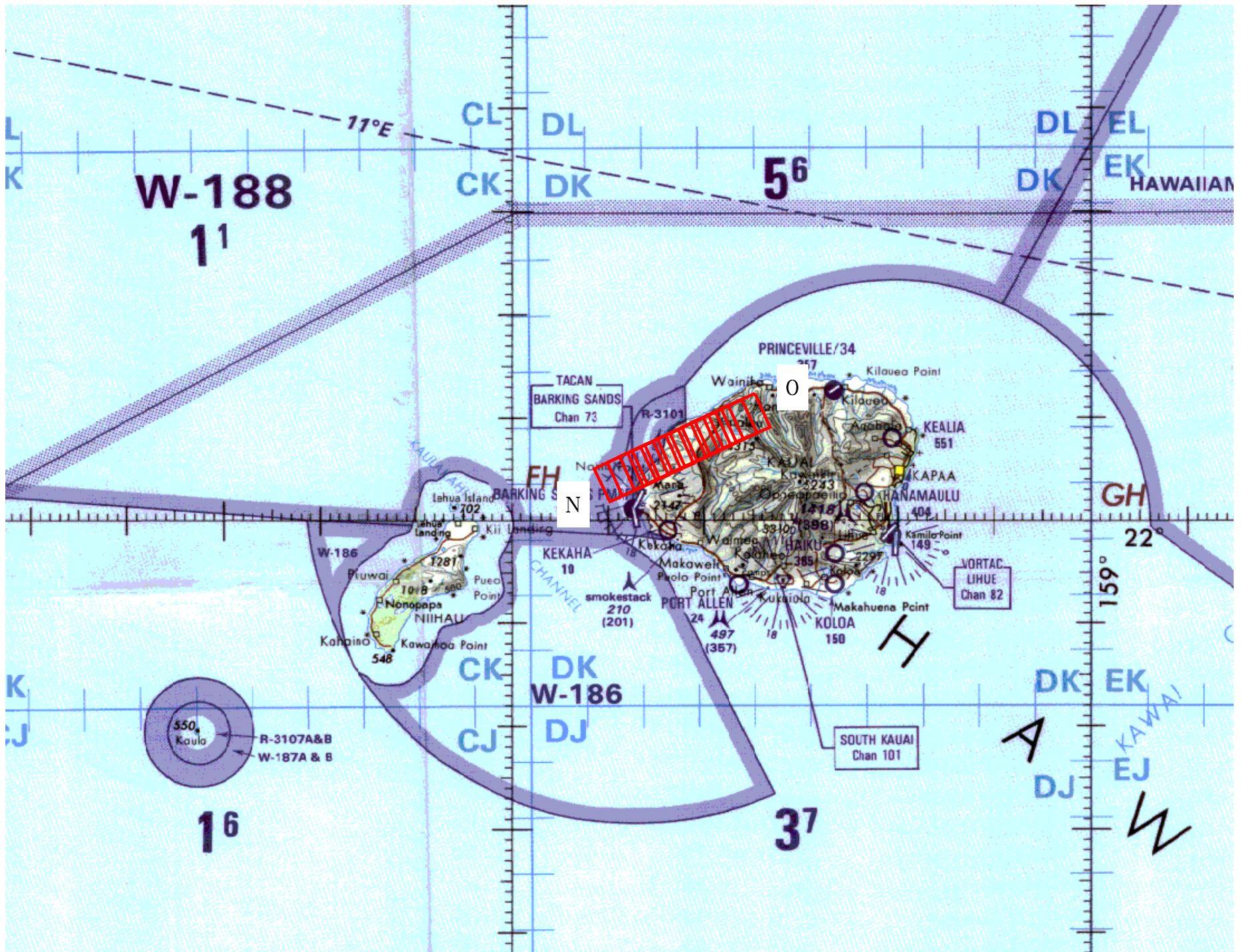
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