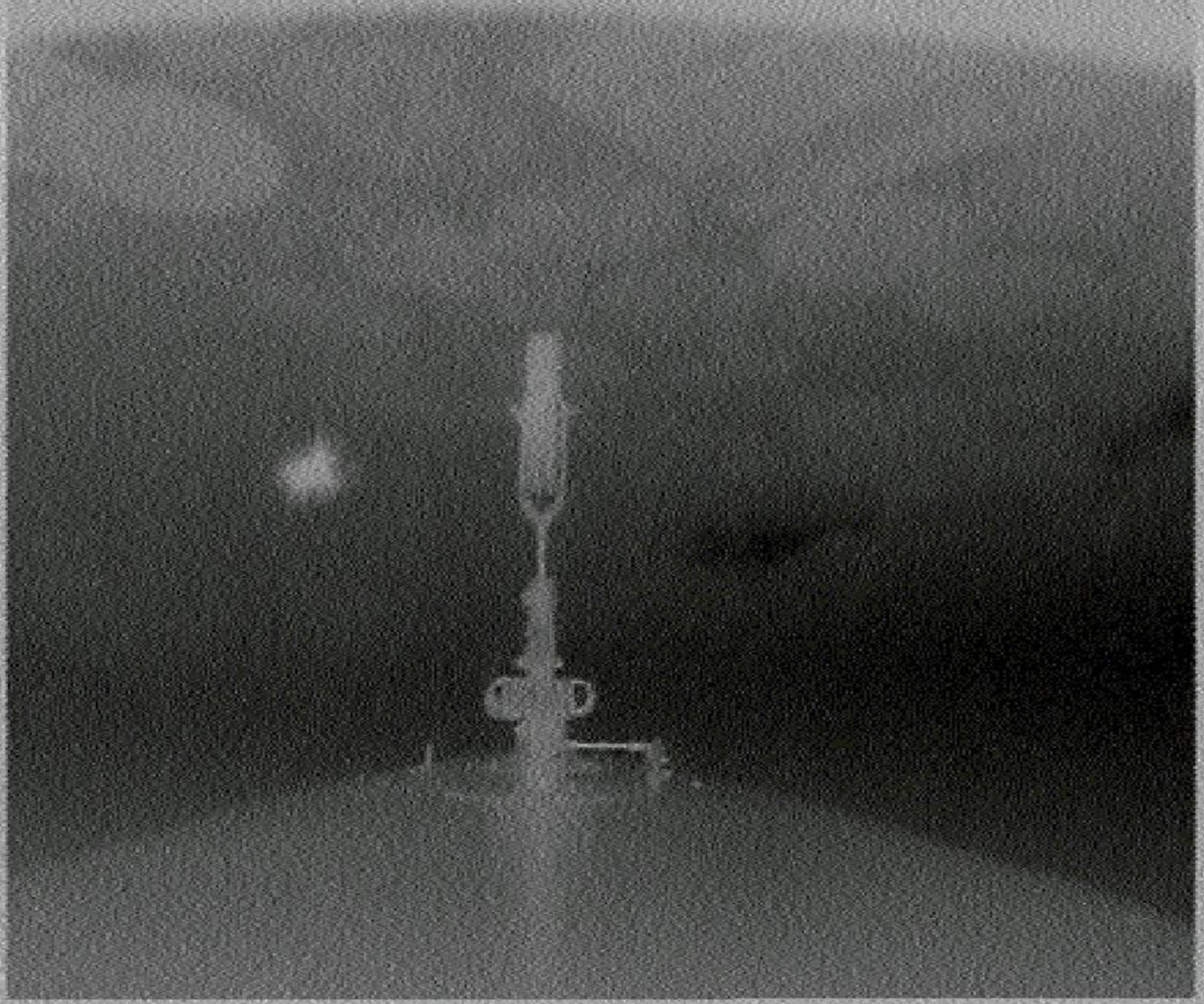
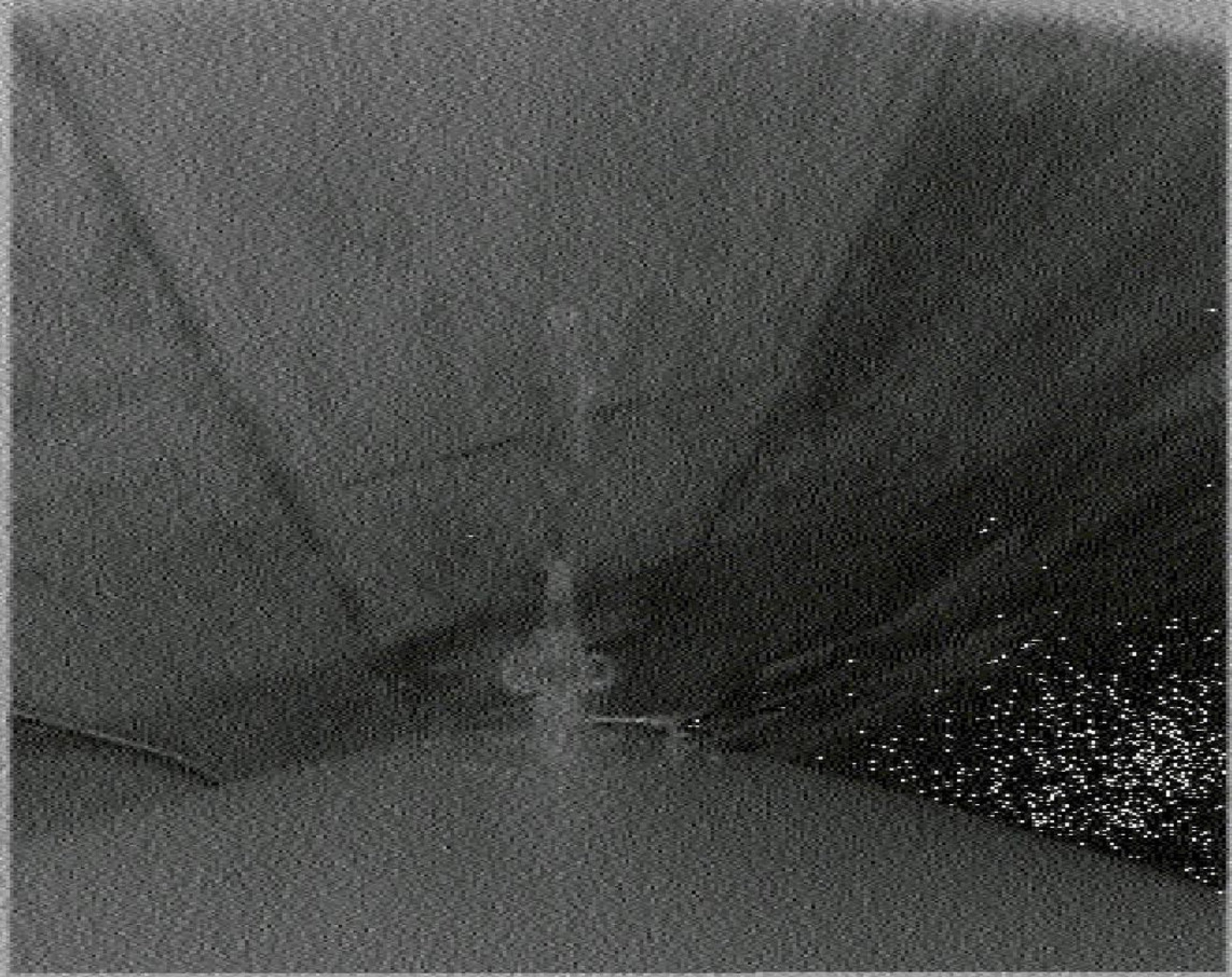
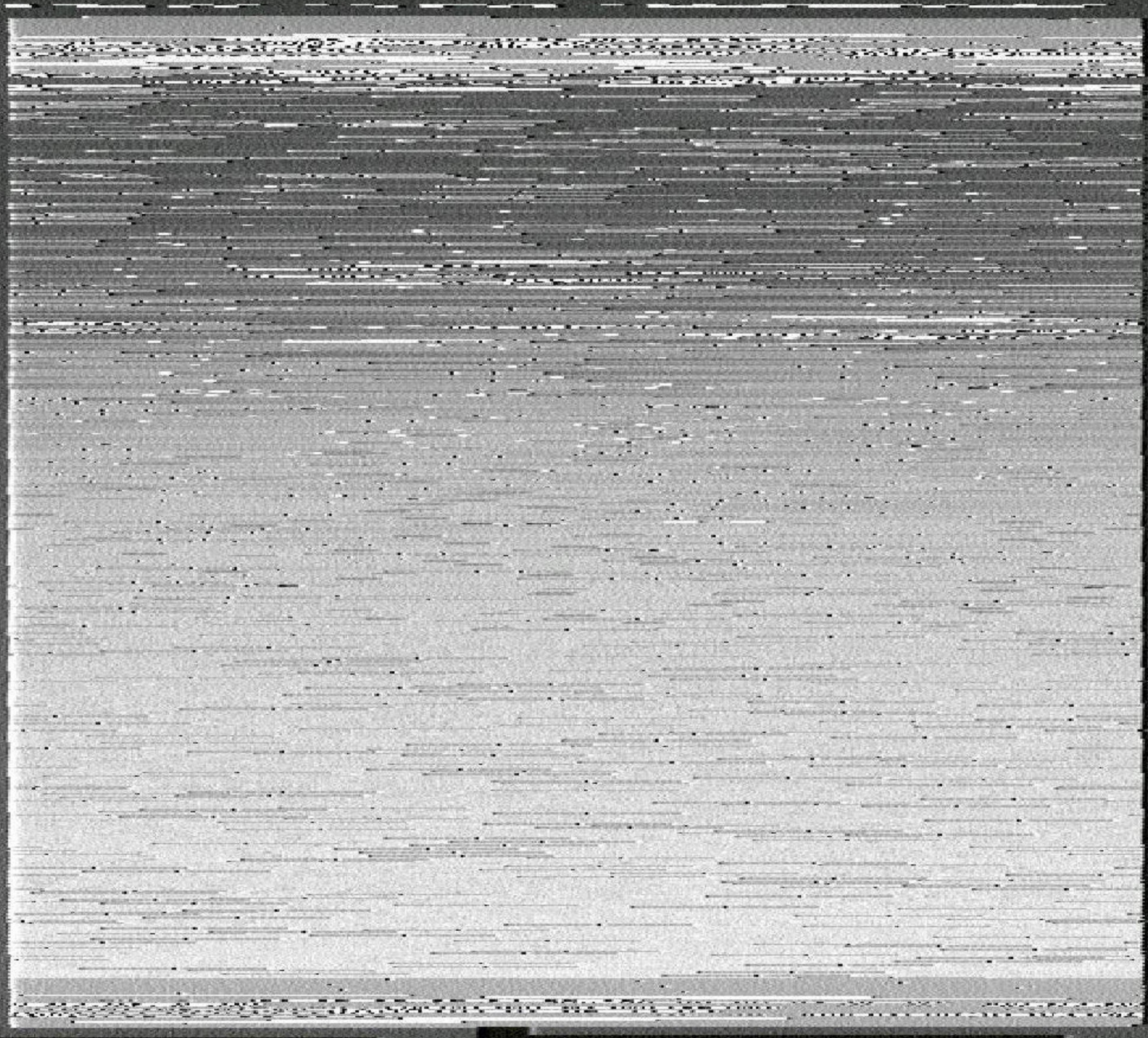
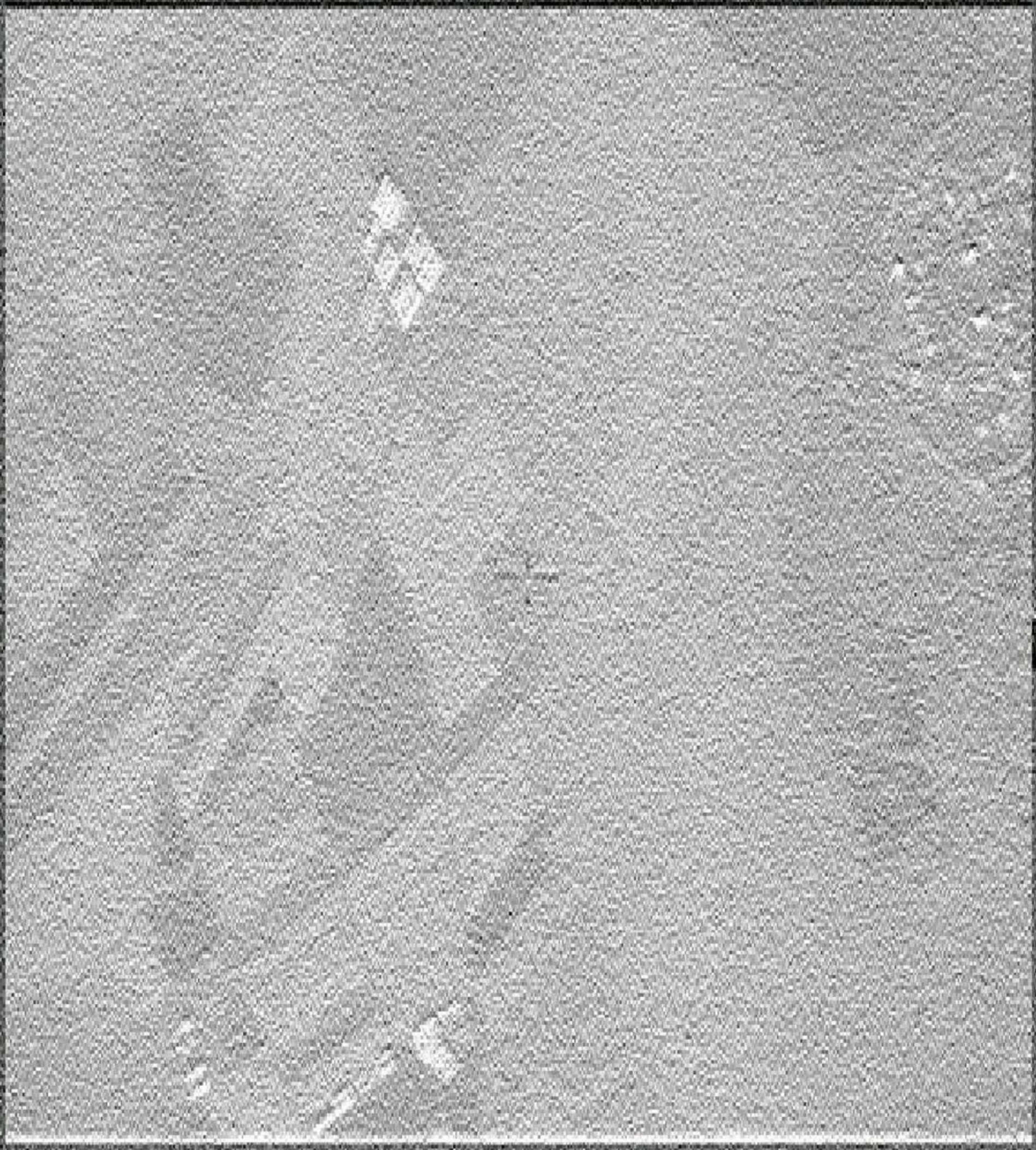


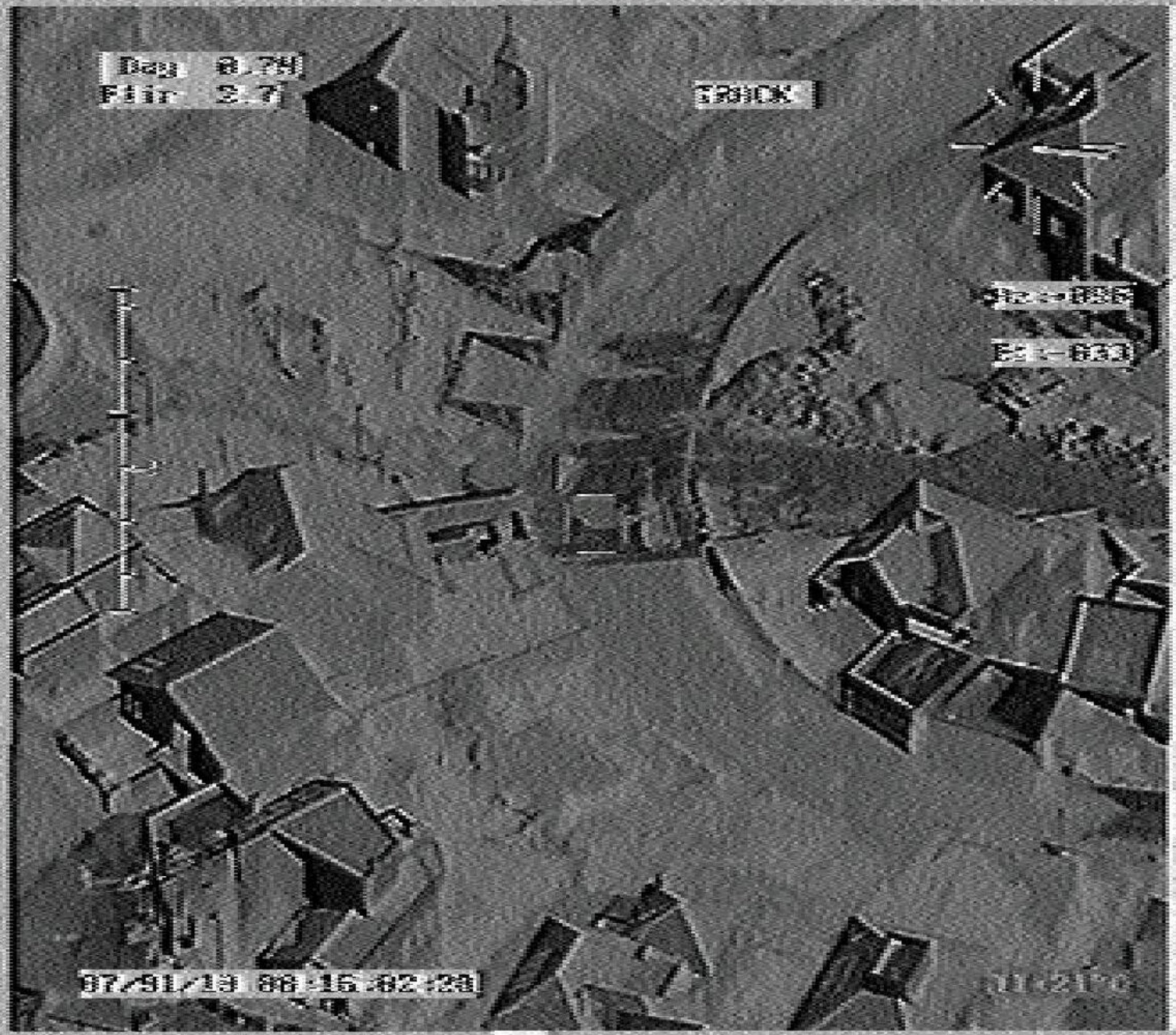




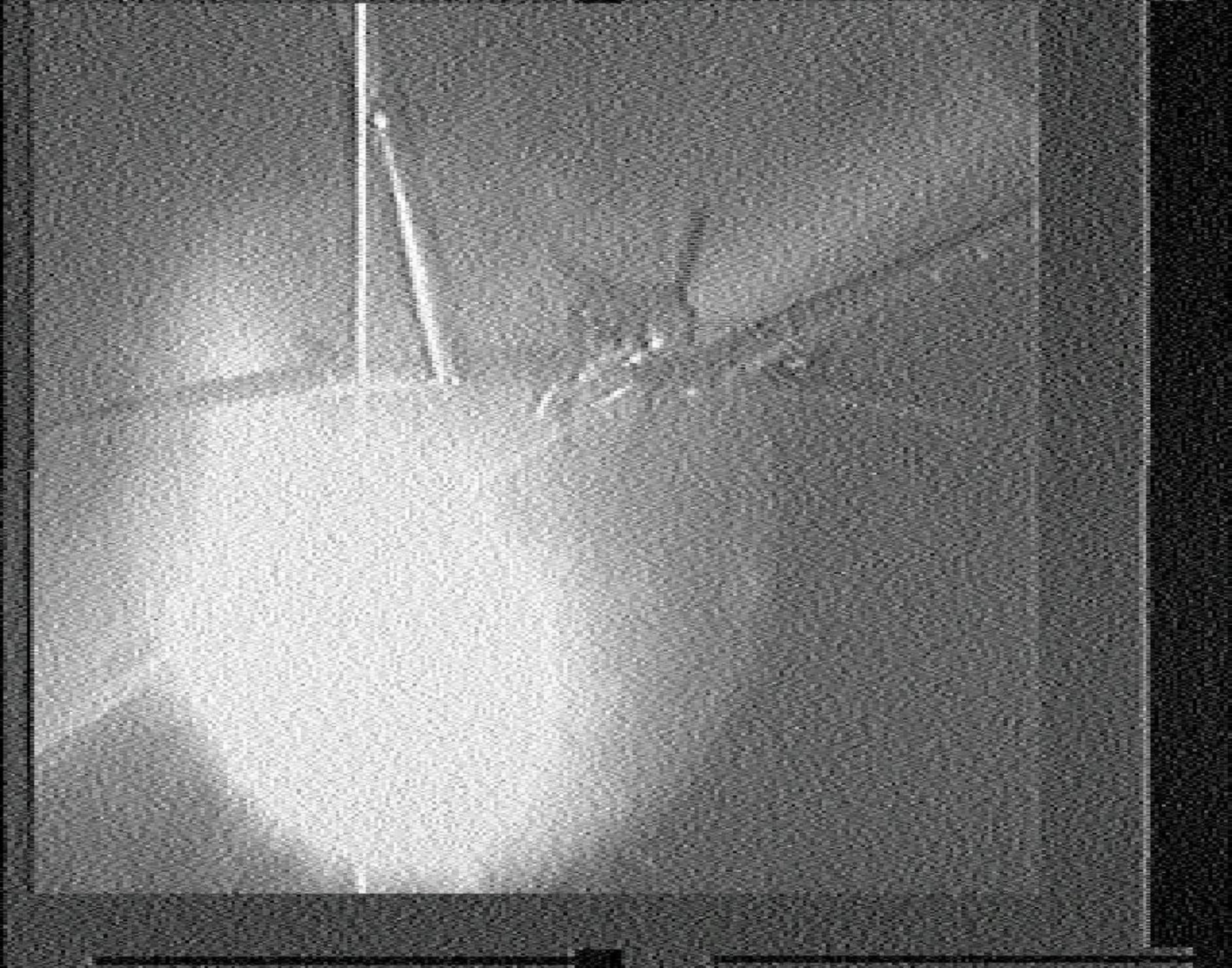




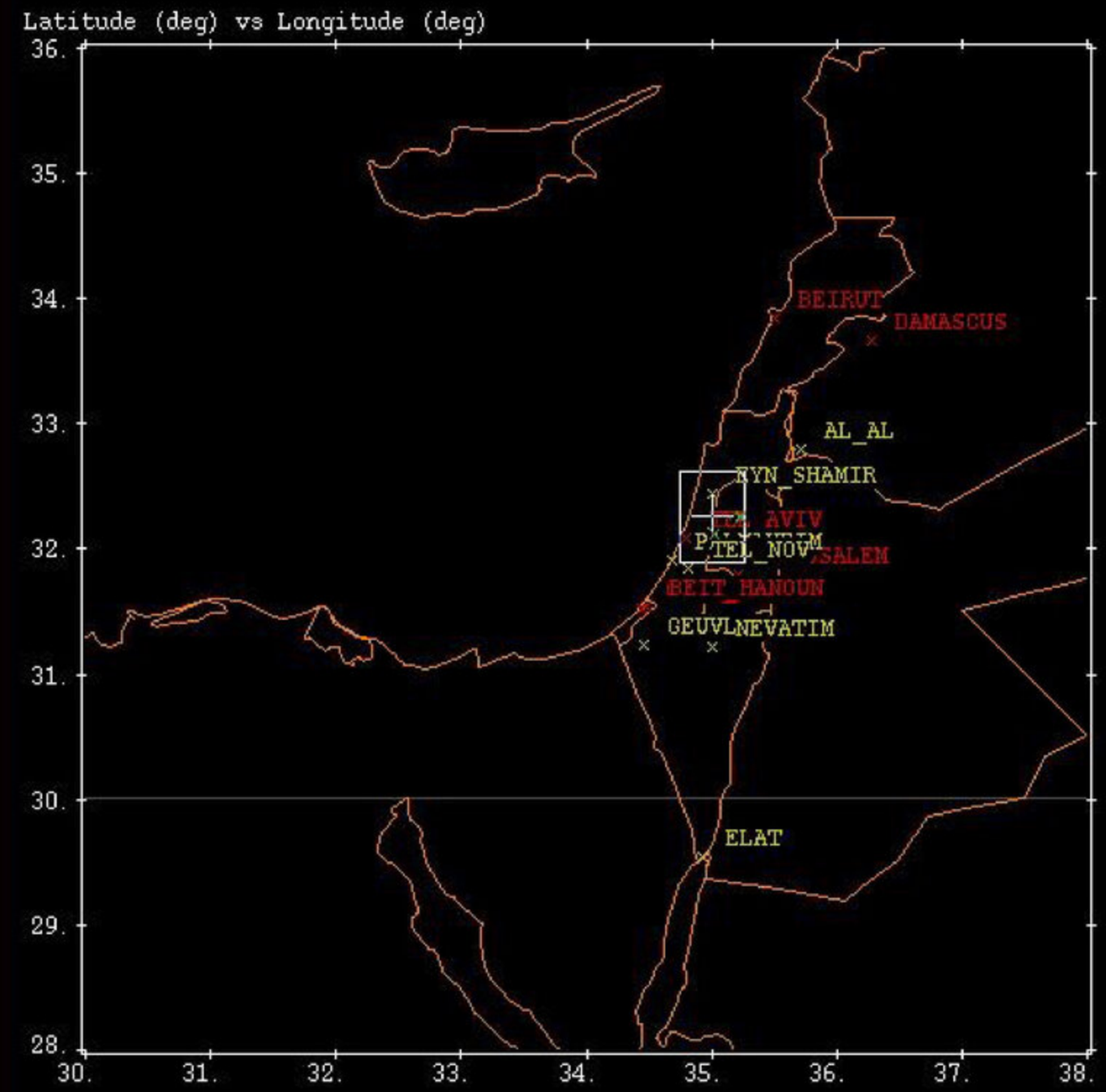


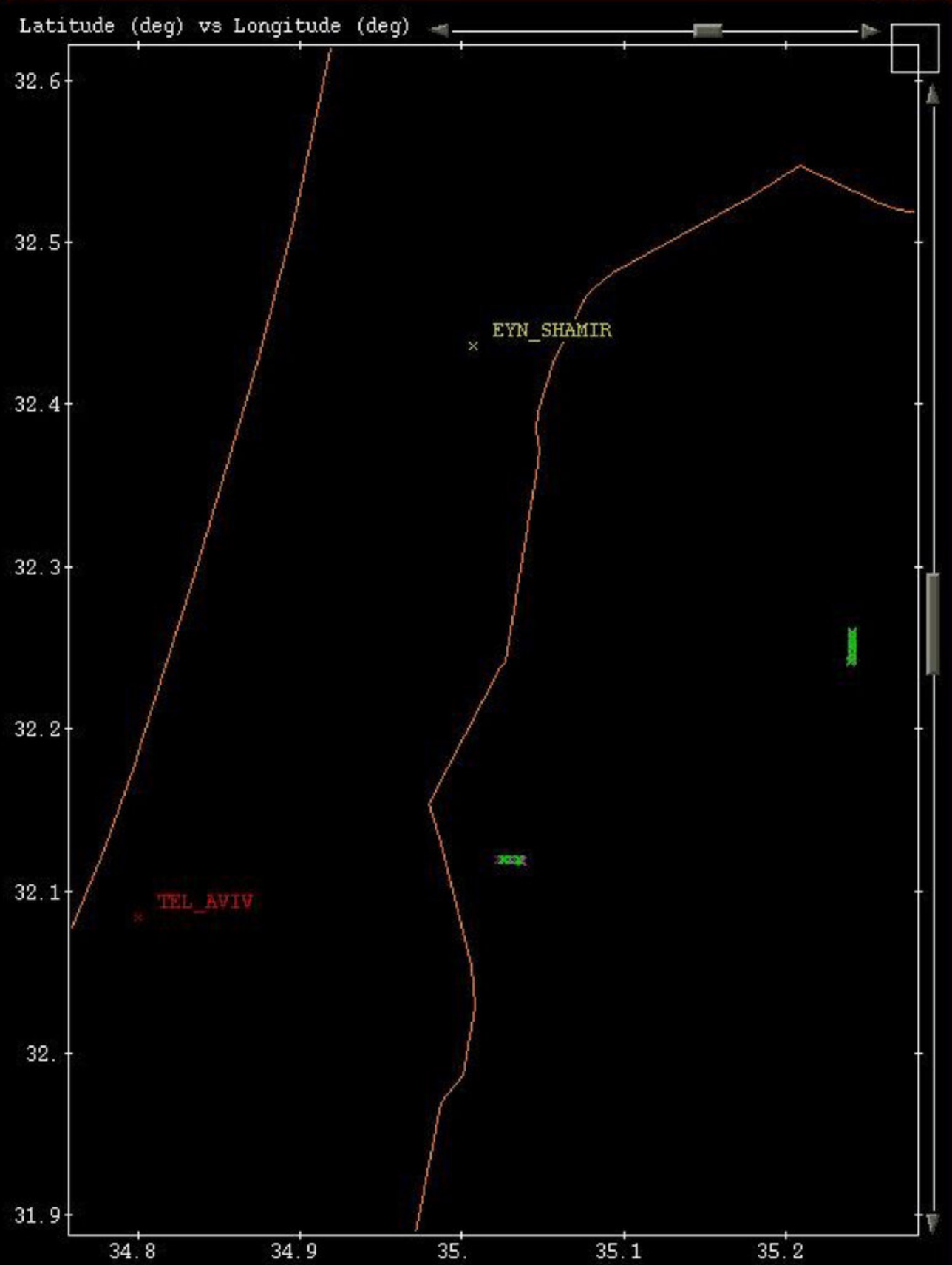

Day 0.74
Flir 3.7
07/01/19 08:15:02:20





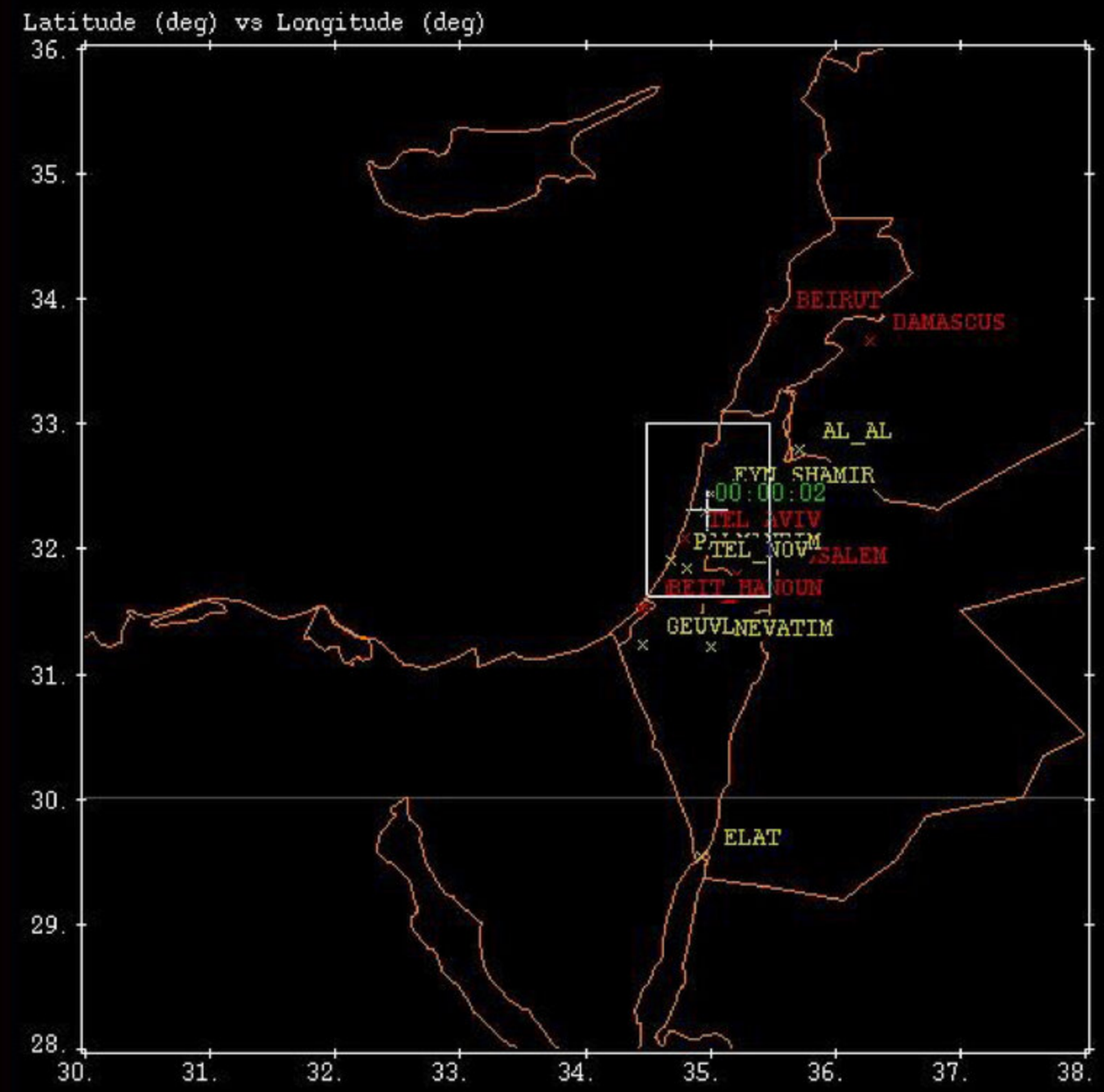


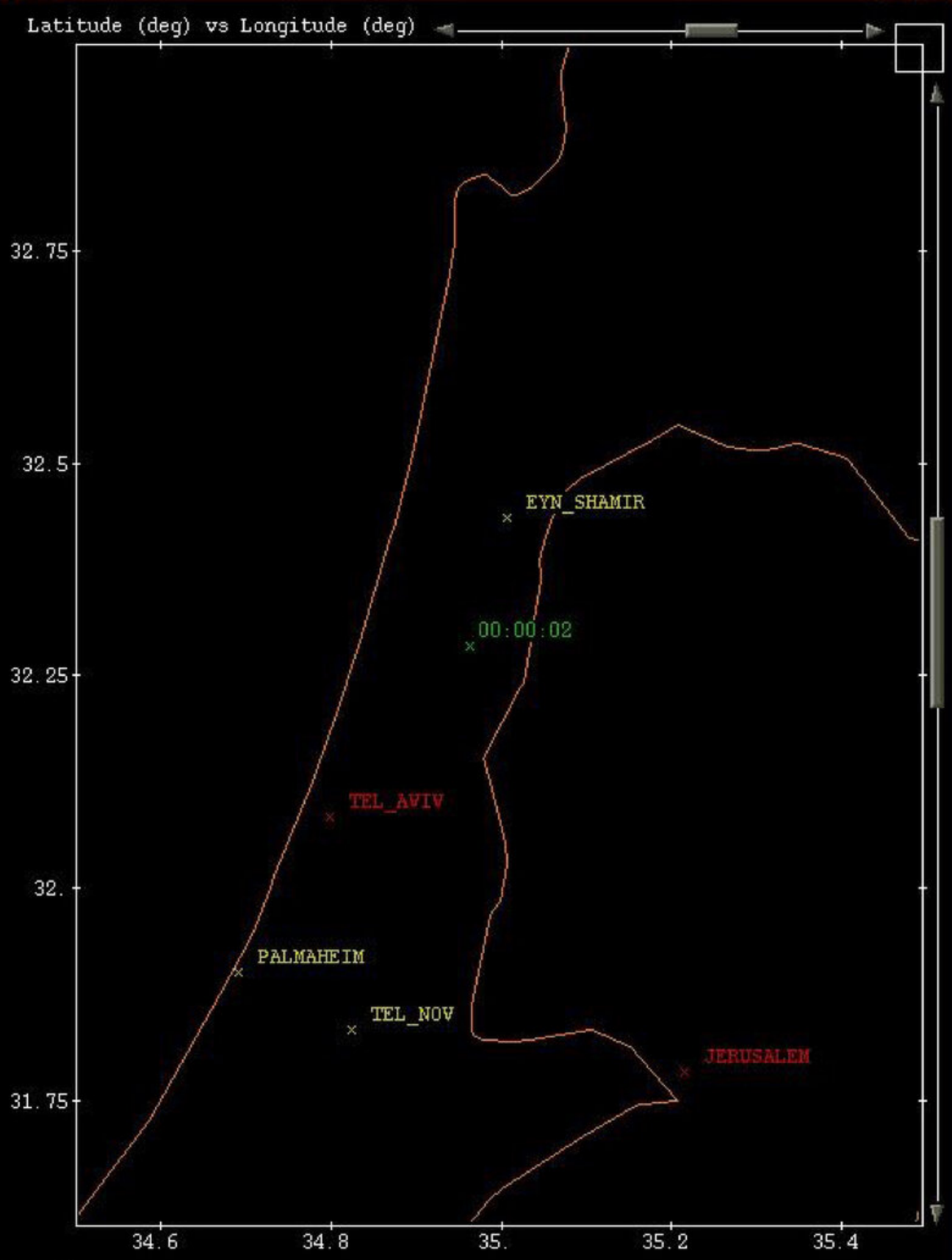




Lat: 32.132019 dLat: 32.132019 Az(deg): 88.8870 AoA1:-62.078 Td12:-8.937776E-03
Lon: 35.058836 dLon: 35.058836 dR(km): 5122.18 AoA2:-46.275 Fd12: 1.89786

Date:
Time: 00:00:00

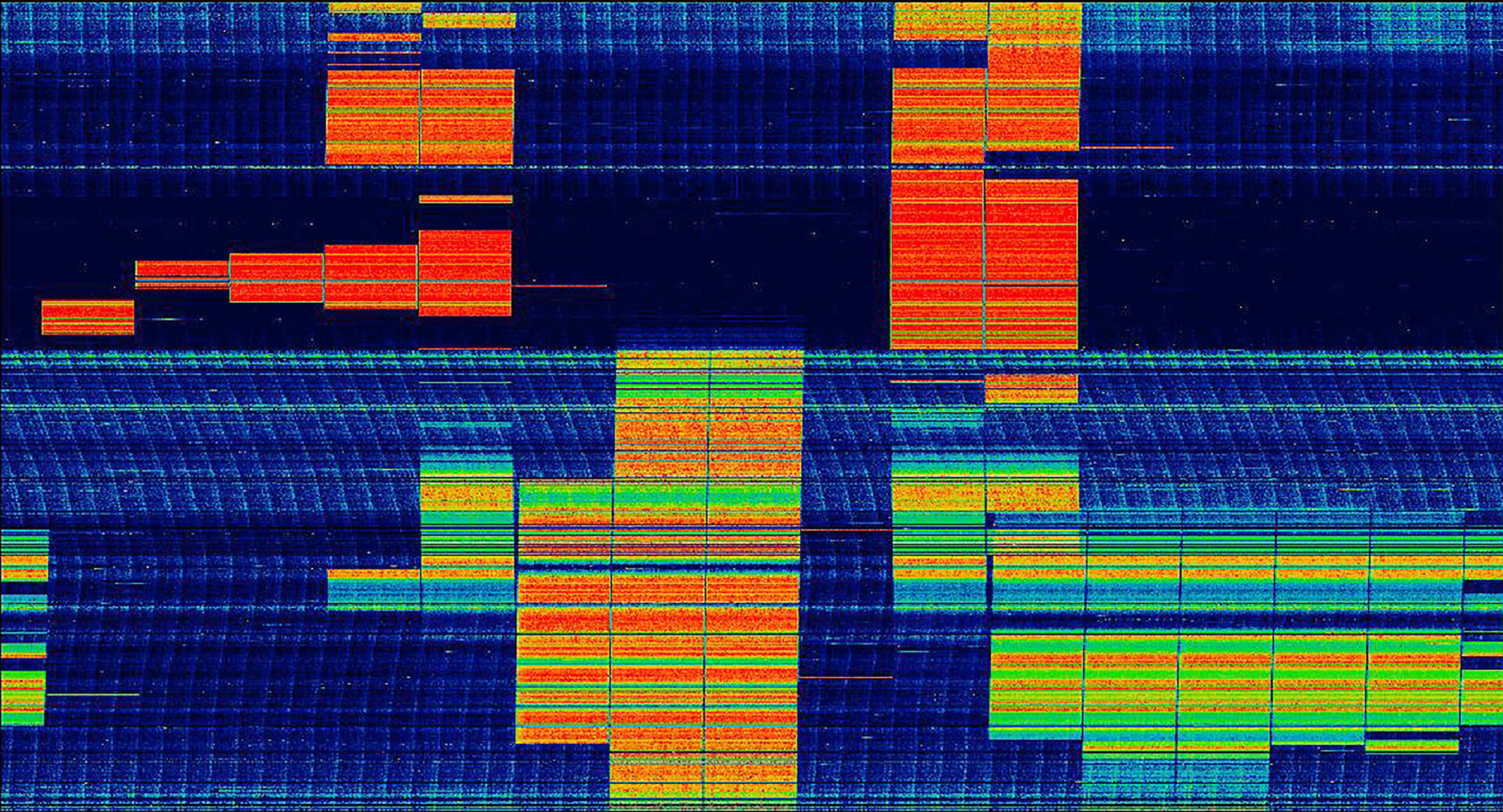


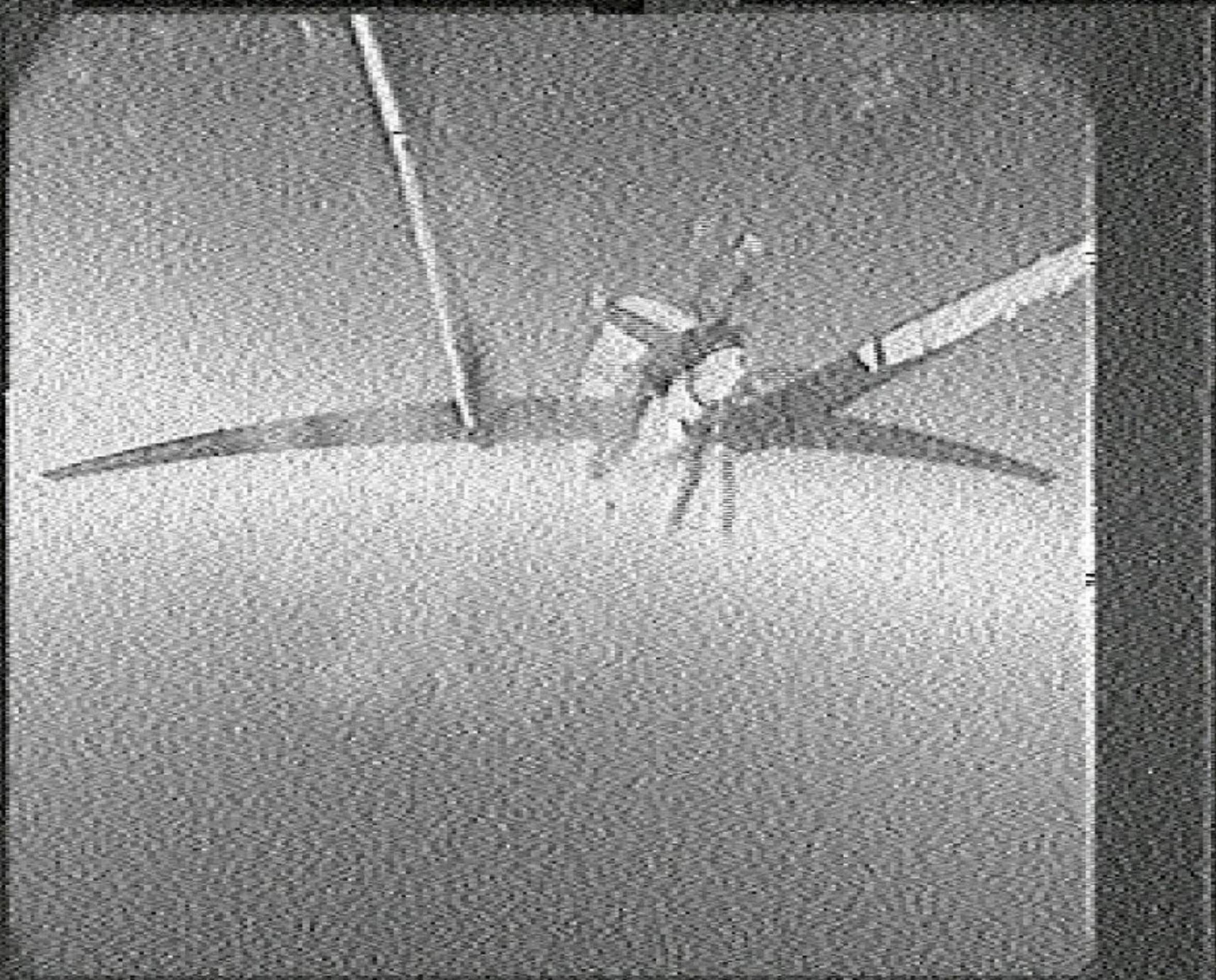


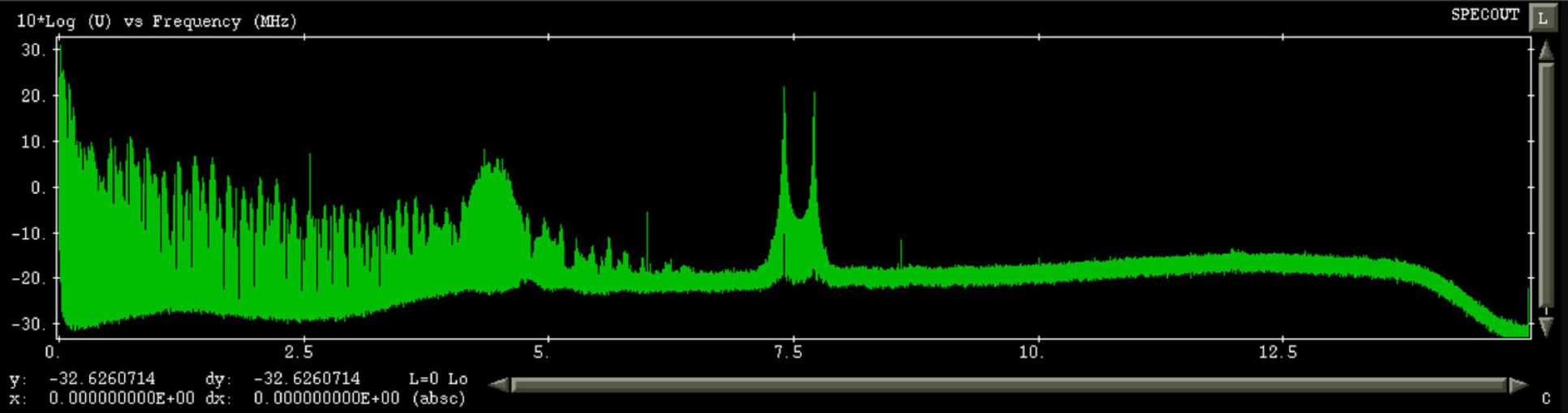
Lat: 31.621730 dLat: -5.746479 Az(deg): 88.2360 AoA1:-62.520 Td12:-8.882713E-03
Lon: 35.392354 dLon: 4.362173 dR(km): 753.487 AoA2:-46.775 Fd12: 1.84170

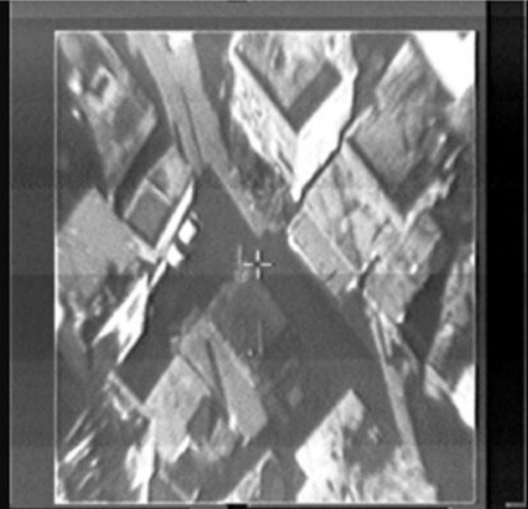
Date:
Time: 00:00:00

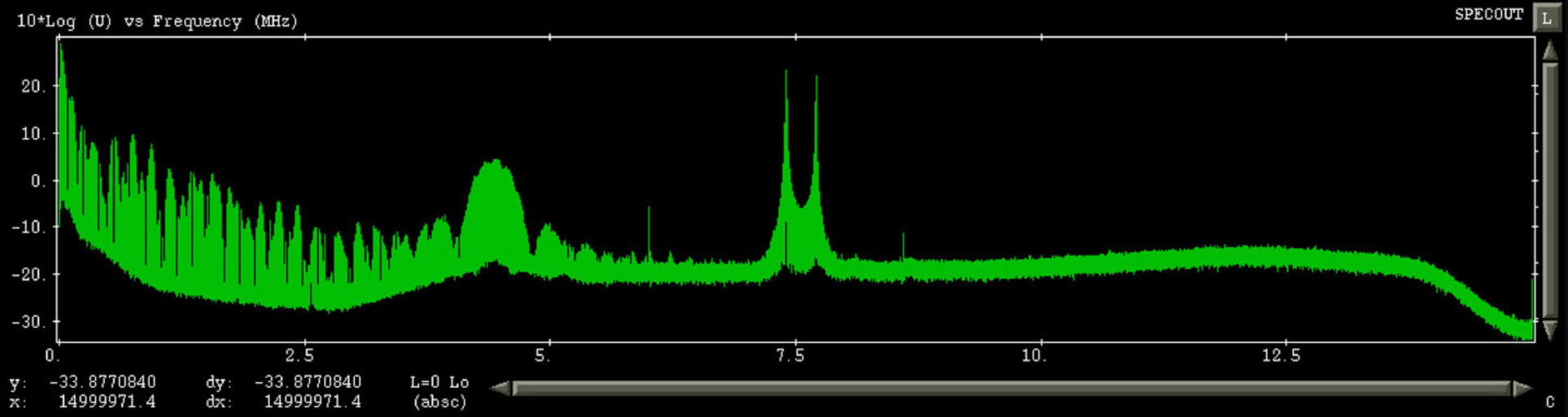
y: 622.188672 dy: 622.188672 L=0 Re zH: -75.842
x: 25198.8002 dx: 25198.8002 (absc) zL: -124.66



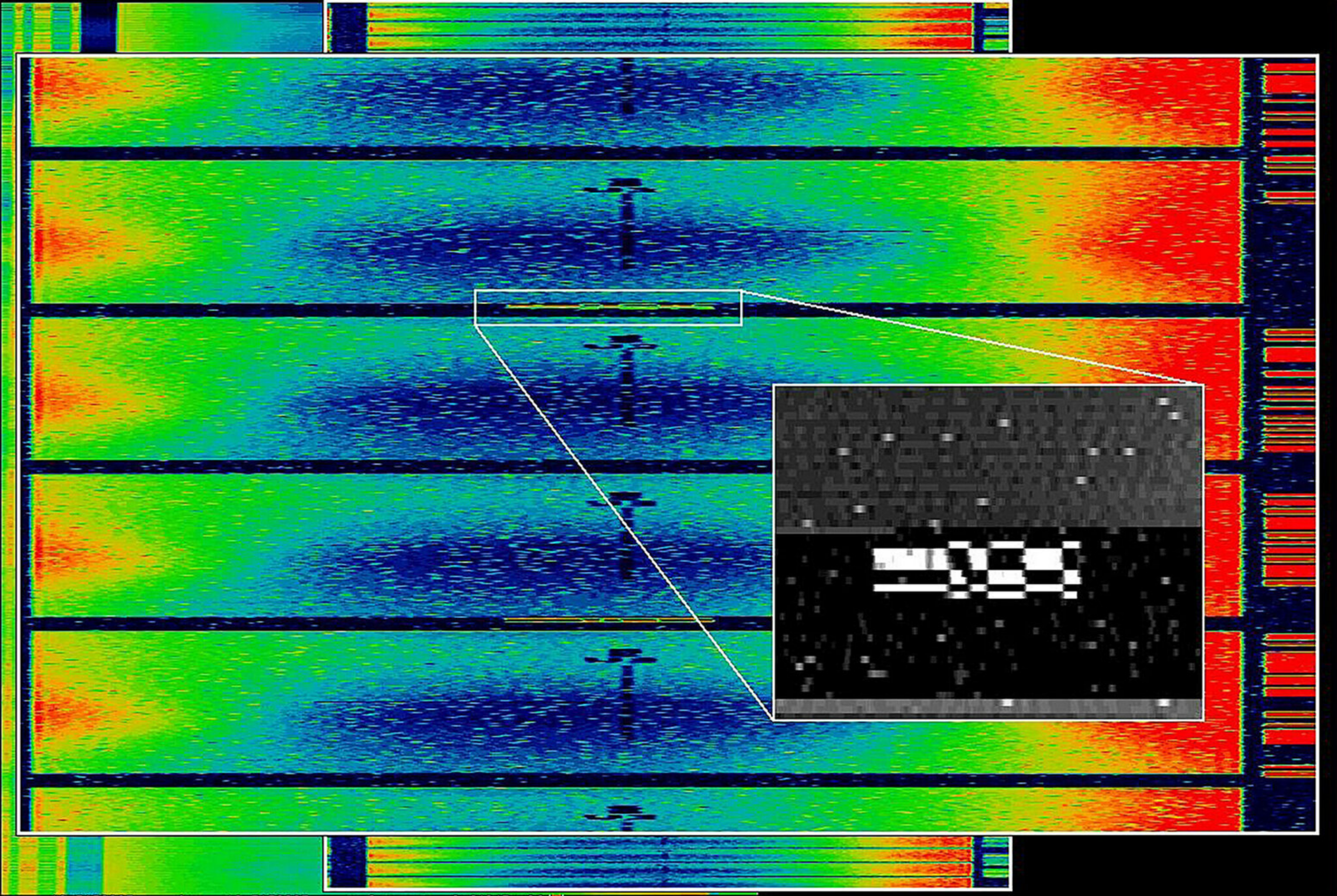



10*Log (U) vs Frequency (MHz)
SPECOUT
L
30.
20.
10.
0.
-10.
-20.
-30.
0.
2.5
5.
7.5
10.
12.5
y: -32.6260714 dy: -32.6260714 L=0 Lo
x: 0.000000000E+00 dx: 0.000000000E+00 (absc)
C




10*Log (U) vs Frequency (MHz)
SPECOUT
L
20.
10.
0.
-10.
-20.
-30.
0.
2.5
5.
7.5
10.
12.5
y: -33.8770840
x: 14999971.4
dy: -33.8770840
dx: 14999971.4
L=0 Lo
(absc)
C

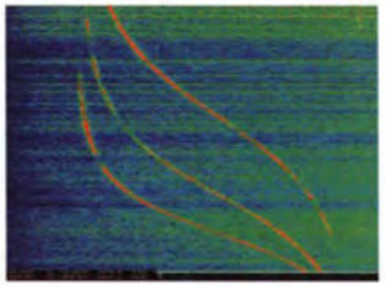



y: 18.7170885 dy: 18.7170885 L=0 Re zH: 2.64047E+06
x: 1.110000000E-04 dx: 1.110000000E-04 (absc) zL: -3.94446E+06
C

"Anarchist" Image Index

Anarchist is the code name of an operation run by the British Army for the UK's Government Communications Headquarters (GCHQ). From the top of the Troodos Mountains on the island nation of Cyprus, two antennae operating twenty-four hours a day intercept signals from satellites, drones, and radars in the Mediterranean region.

The selection of visualizations in *Astro Noise* comprises snapshots of signals collected through Anarchist. They show various stages in the processing of the collected signals. The images are from GCWiki, an internal British intelligence wiki disclosed to Laura Poitras and other journalists by Edward Snowden.



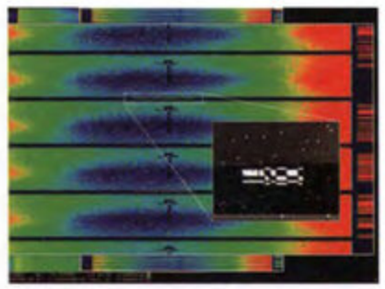
Pages 2–3: Data feed with Doppler tracks from a satellite, intercepted May 27, 2009



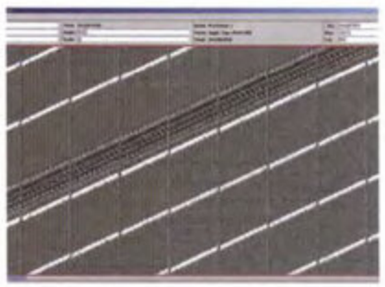
Pages 4–5: Israeli drone video feed, intercepted June 10, 2009



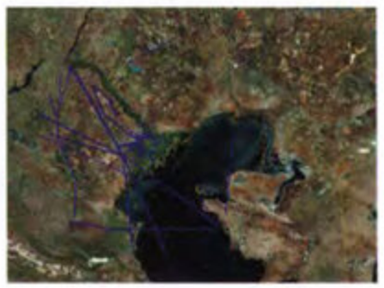
Pages 6–7: Air traffic control signals, intercept date unknown



Pages 8–9: Israeli drone feed, intercepted February 24, 2009



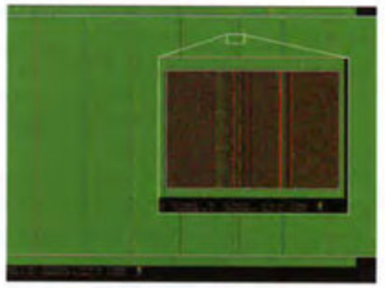
Pages 10–11: Unidentified signal from an Israeli source, intercepted January 23, 2009



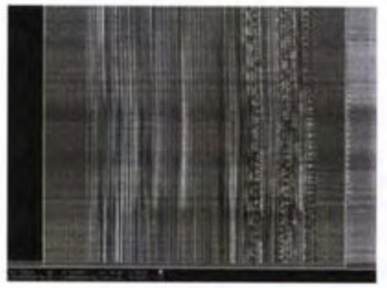
Pages 12–13: Air traffic control data plots near Astrakhan, Russia, intercept date unknown



Pages 14–15: Data feed from a French satellite, intercepted March 30, 2009



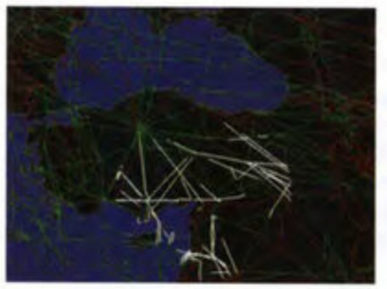
Pages 242–43: Unidentified signal from an Israeli source, intercepted April 15, 2009



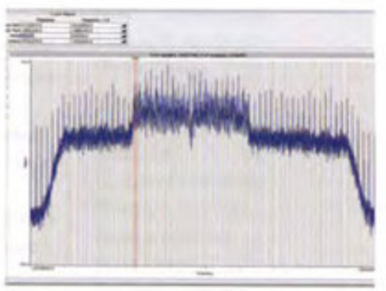
Pages 244–45: Signal from an unidentified source, intercepted April 5, 2009



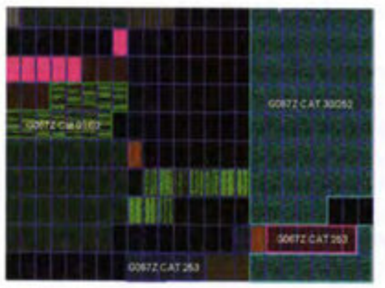
Pages 246–47: Data feed from a drone, intercepted July 7, 2009



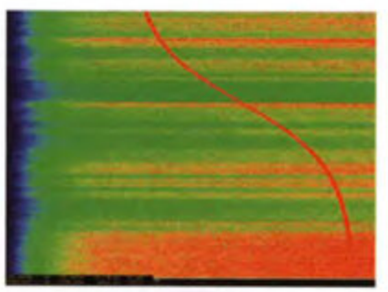
Pages 248–49: Air traffic control data plots near the Turkish-Syrian border, intercept date unknown



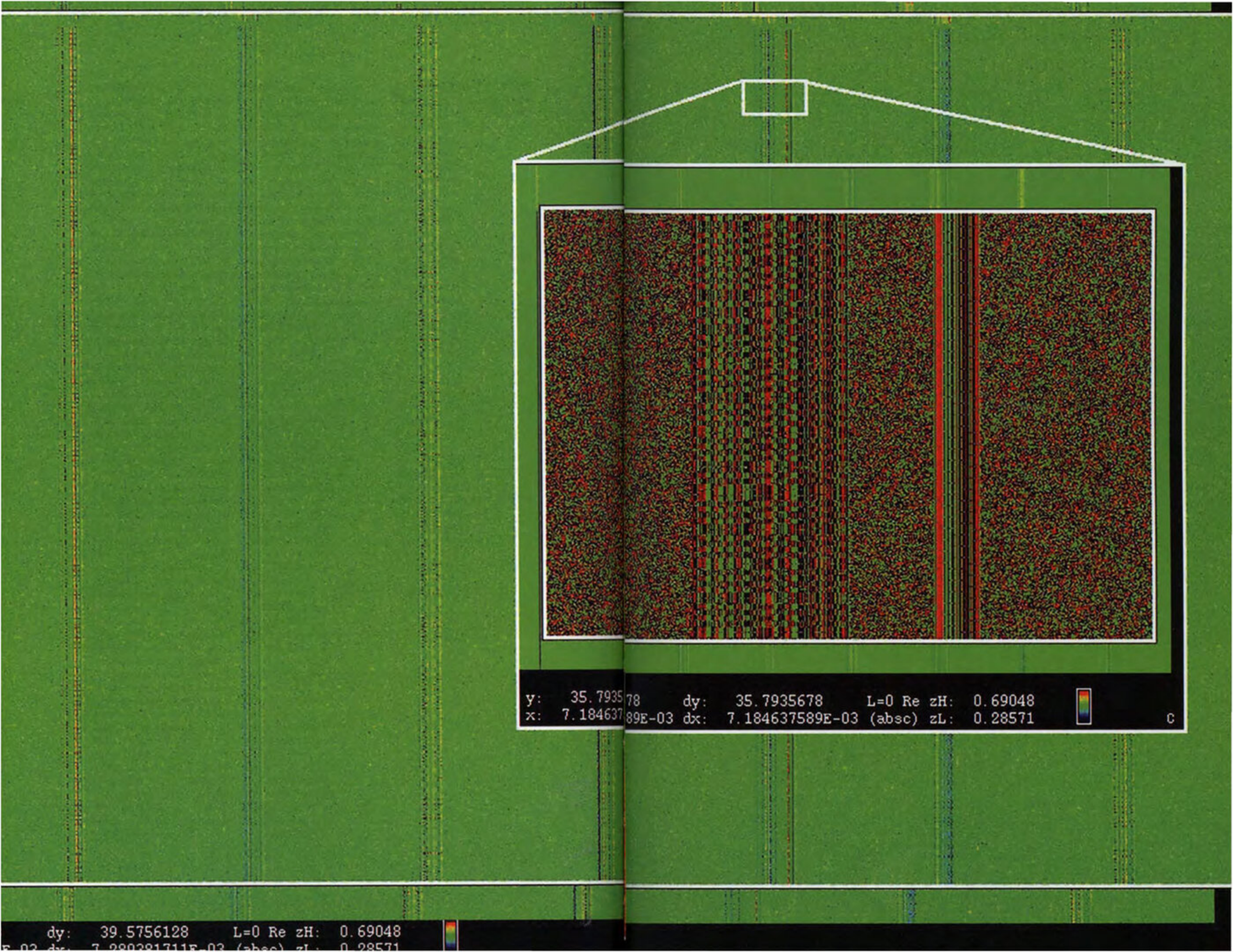
Pages 250–51: Data burst, intercepted October 25, 2009

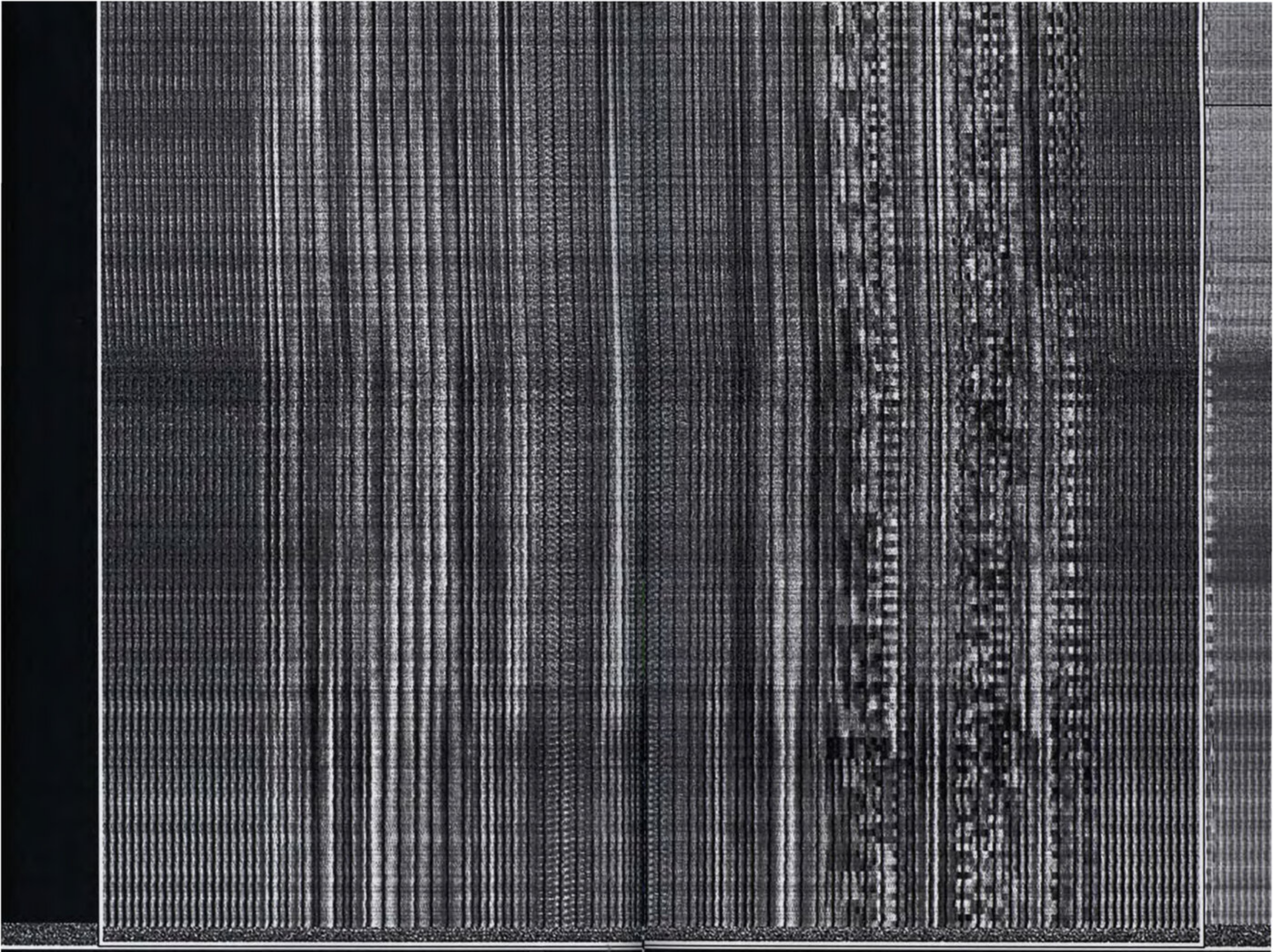


Pages 252–53: Commercial satellite feed, intercept date unknown



Pages 254–55: Satellite feed with Doppler track, intercepted May 28, 2009


y: 35.7935
x: 7.184637
78 dy: 35.7935678 L=0 Re zH: 0.69048
89E-03 dx: 7.184637589E-03 (absc) zL: 0.28571
C
dy: 39.5756128 L=0 Re zH: 0.69048


.048226 dy: 51.1638697 L=1 Ma zH: 0.35955

sing Bits
s TEBAG
Rate 9615.5 Loop BW 0.007280
Map L:<0, 1, 3, 2>
EQU Length 15
None ?
de None NRZL
None ...
hru Rand. Taps L:<>
Sync Packet Sync ...
Length 320
BER: 0.000000
rand None ...
None ...
rame None ...
one ...
None ...
ation 1
l Proc Special ...
None Mode H.261
None
ap BitToWord ...
CCSDS

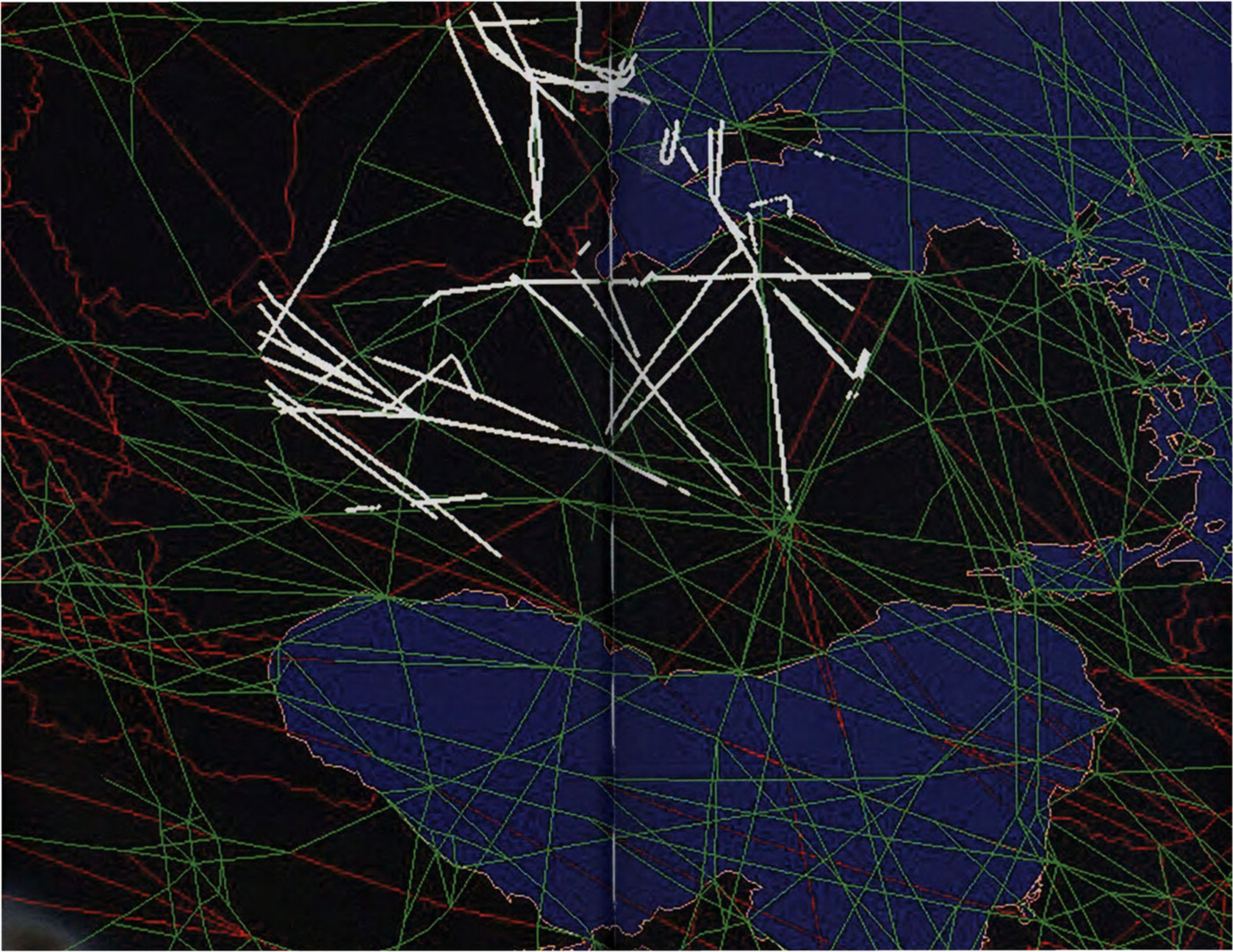
00:00:10.000
00:00:20.000
00:00:30.000

Y: 00:00:02.531644361
X: 0.023389647
X Res: 129.9984e-06

DY: 00:00:02.531644361
DX: 0.023389647
Y Res: 0.03328

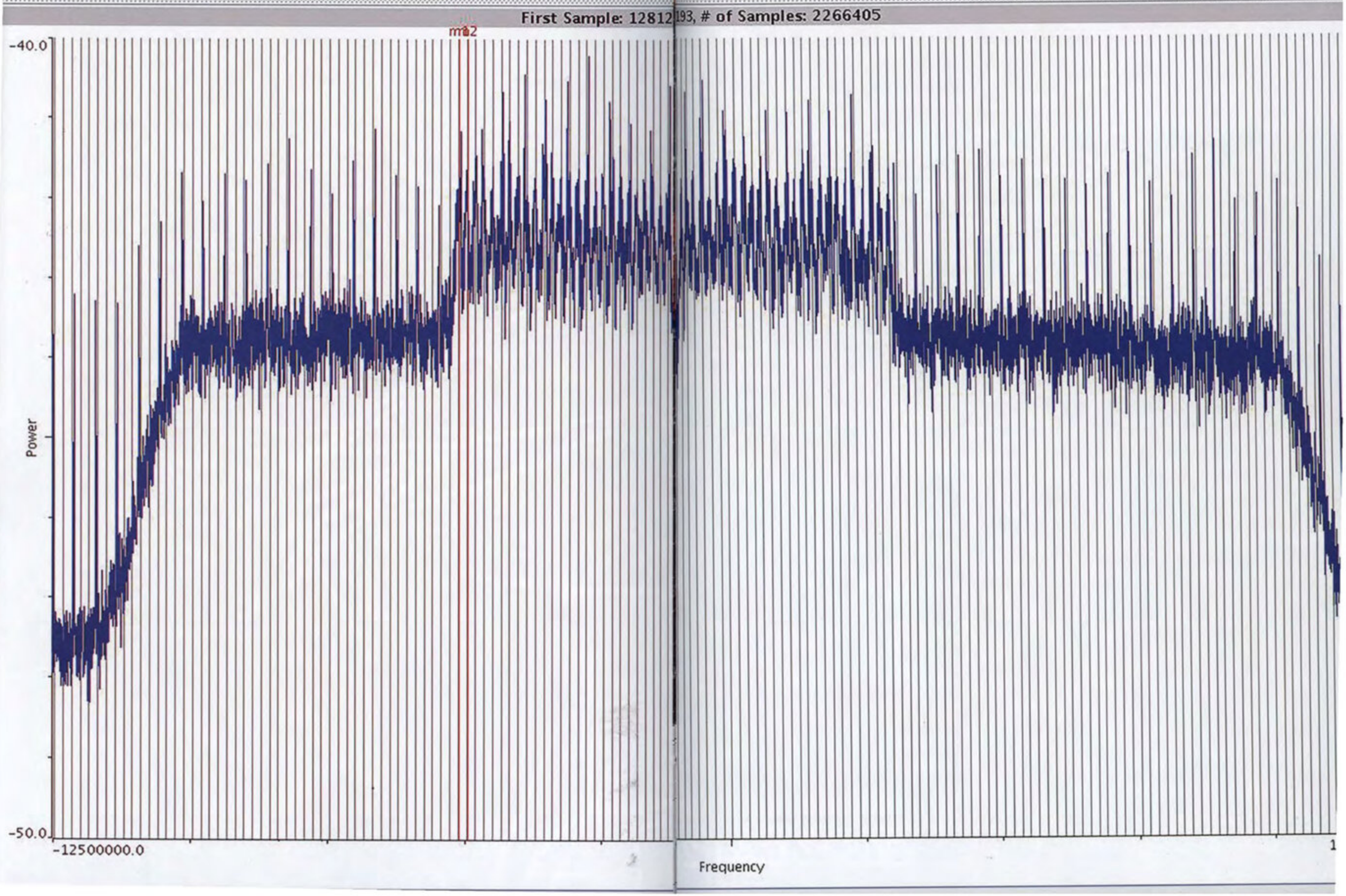
Save Blue TC
ep EEEI Conv None

Zoomer Height
1
Height Compression
Frame Size 8180
Bit Spacing 8
Bit Start 0



X Axis Marker

Frequency	Frequency / 1.0
-5119354.6	-5119354.6
-4963104.6	-4963104.6
156250	156250.0
-5041229.6	-5041229.6

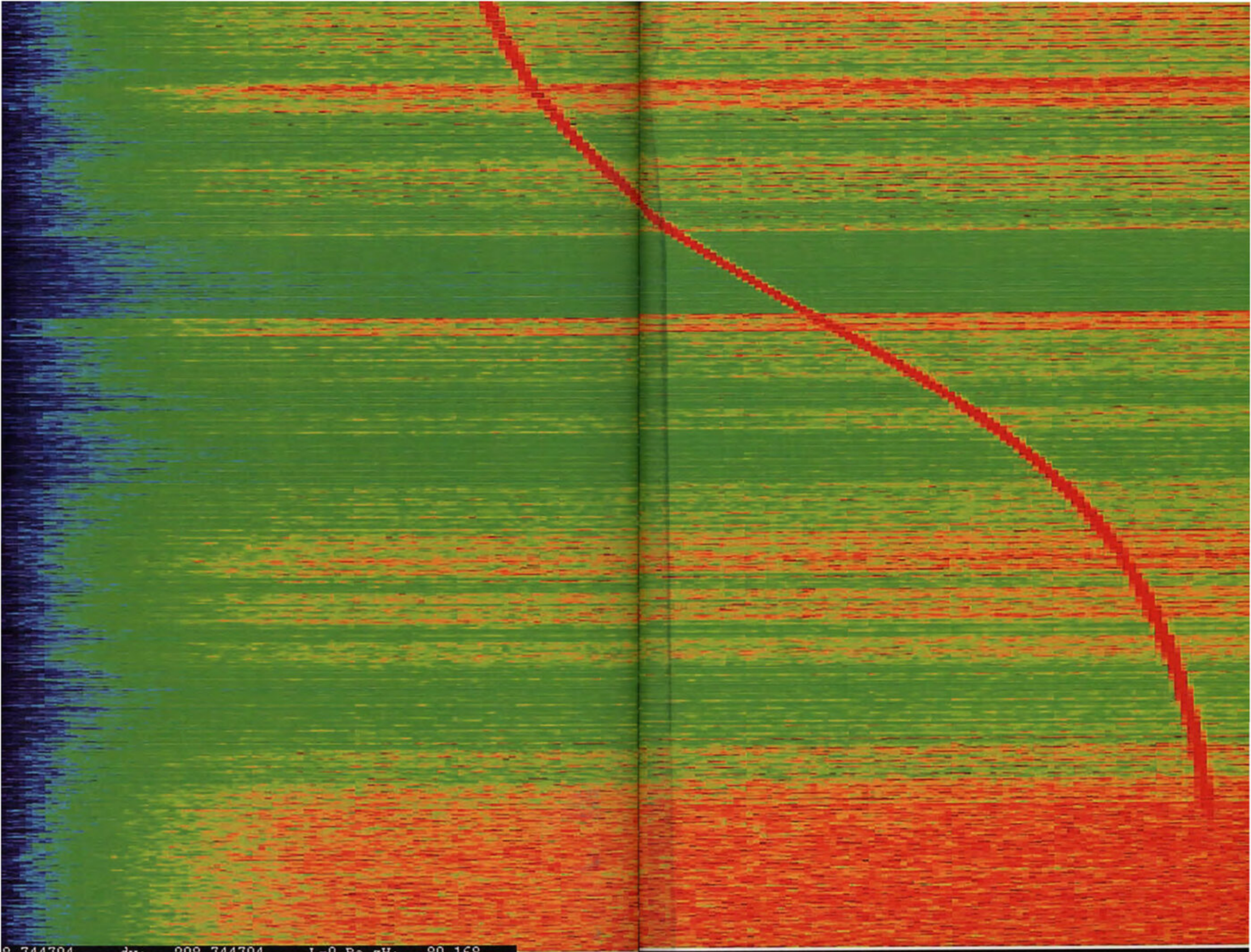


G067Z Cat 01/02

G067Z CAT 30/252

G067Z CAT 253

G067Z CAT 253


8.744704 dy: 208.744704 L=0 Re zH: -80.168

.188672 dy: 622.188672 L=0 Re zH: -75.842

ng Video

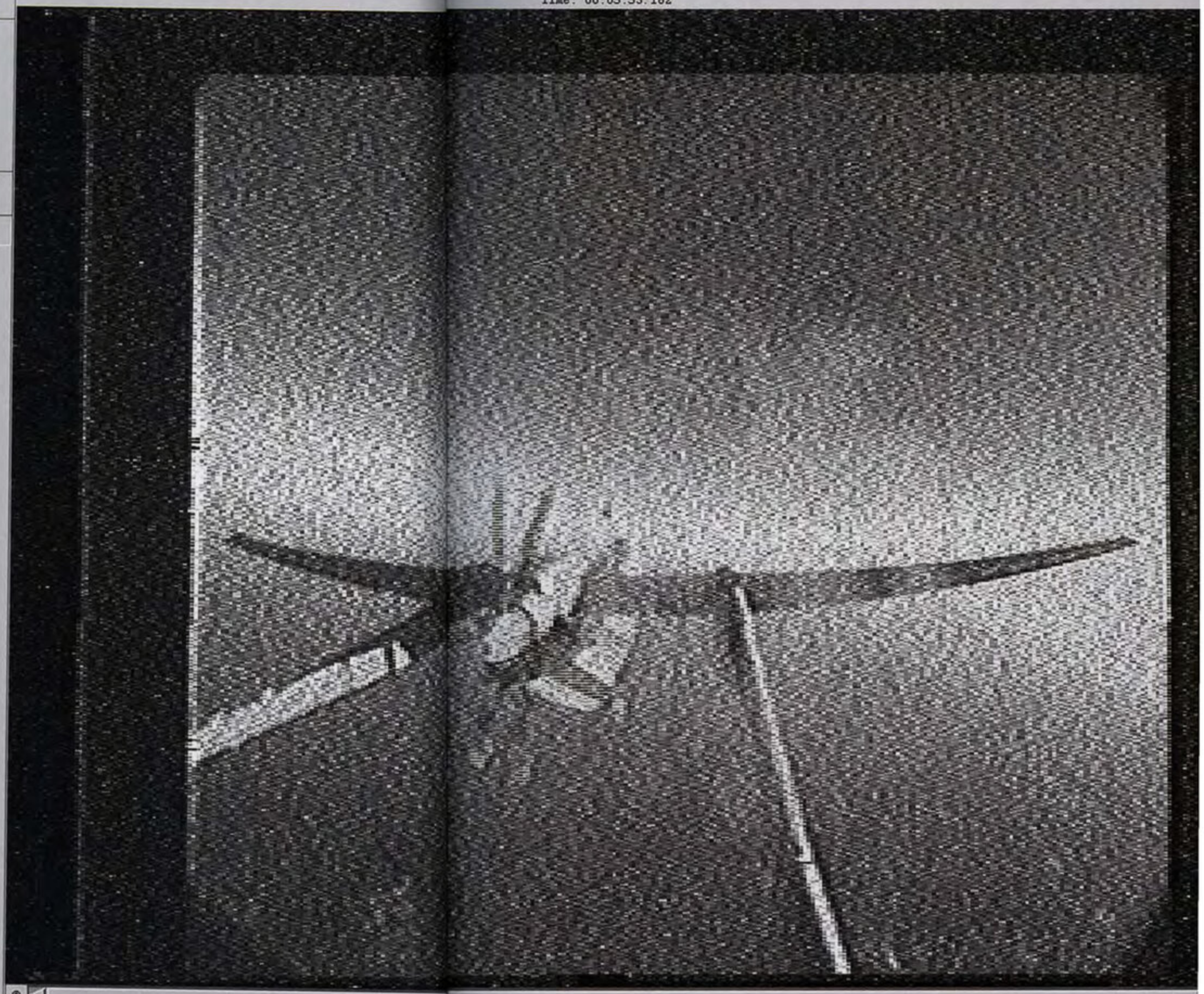
rmat NTSC PAL

e Auto-Contrast

ss Contrast

LOW SNR

Time: 00:05:53.162



Preview

EEEI Conv None

d:

Zoomer None

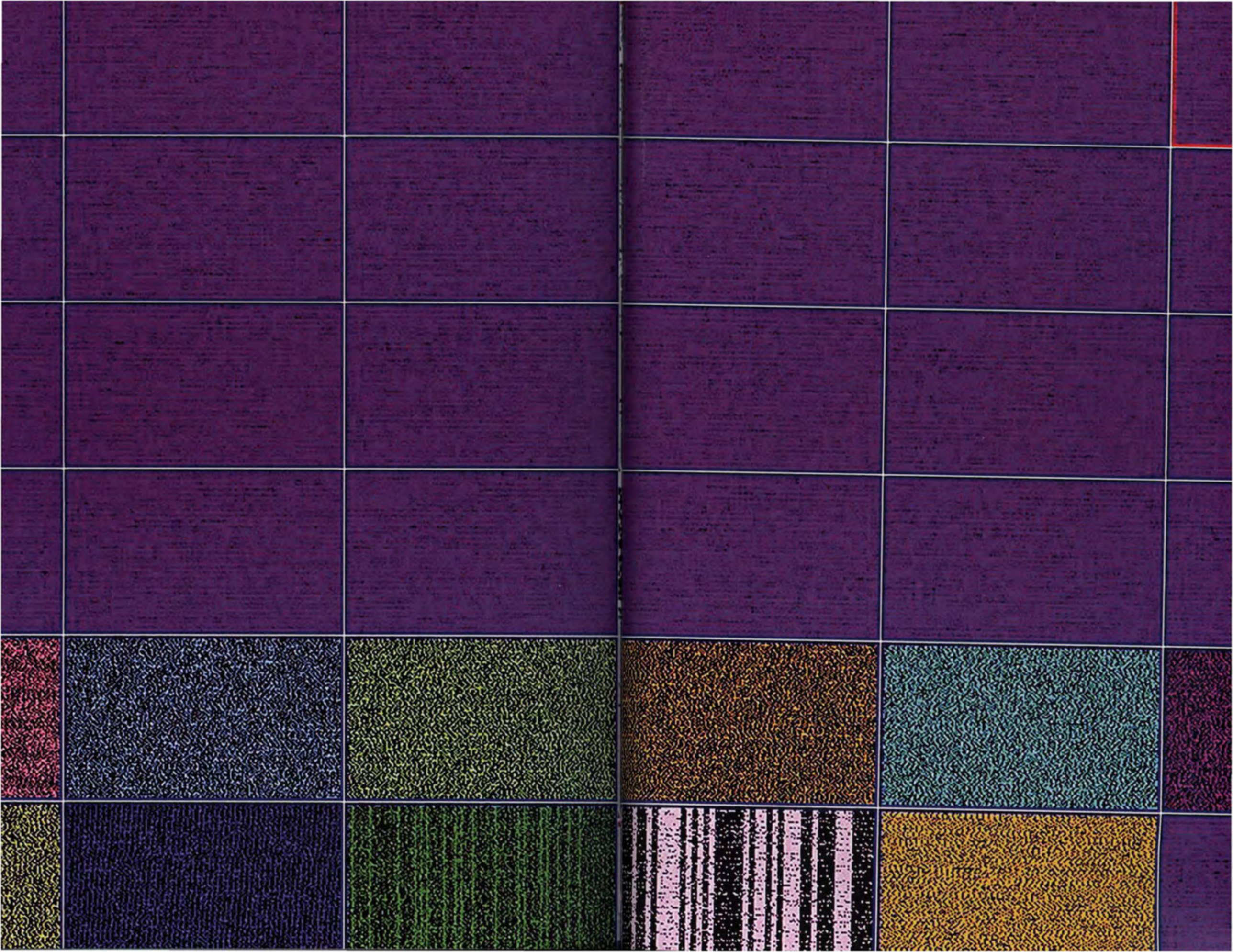
1

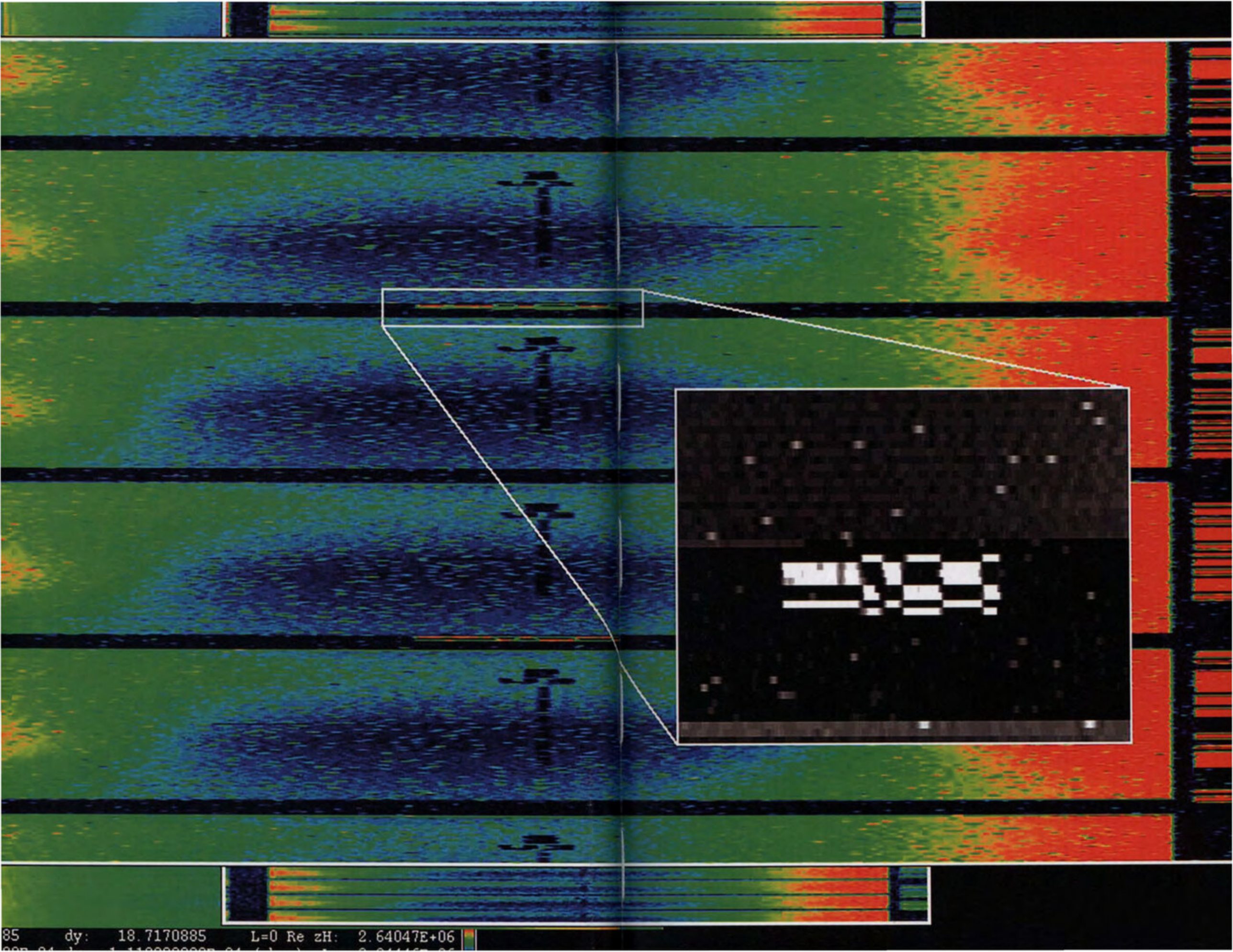
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Frame Size 1024

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Bit Start 0

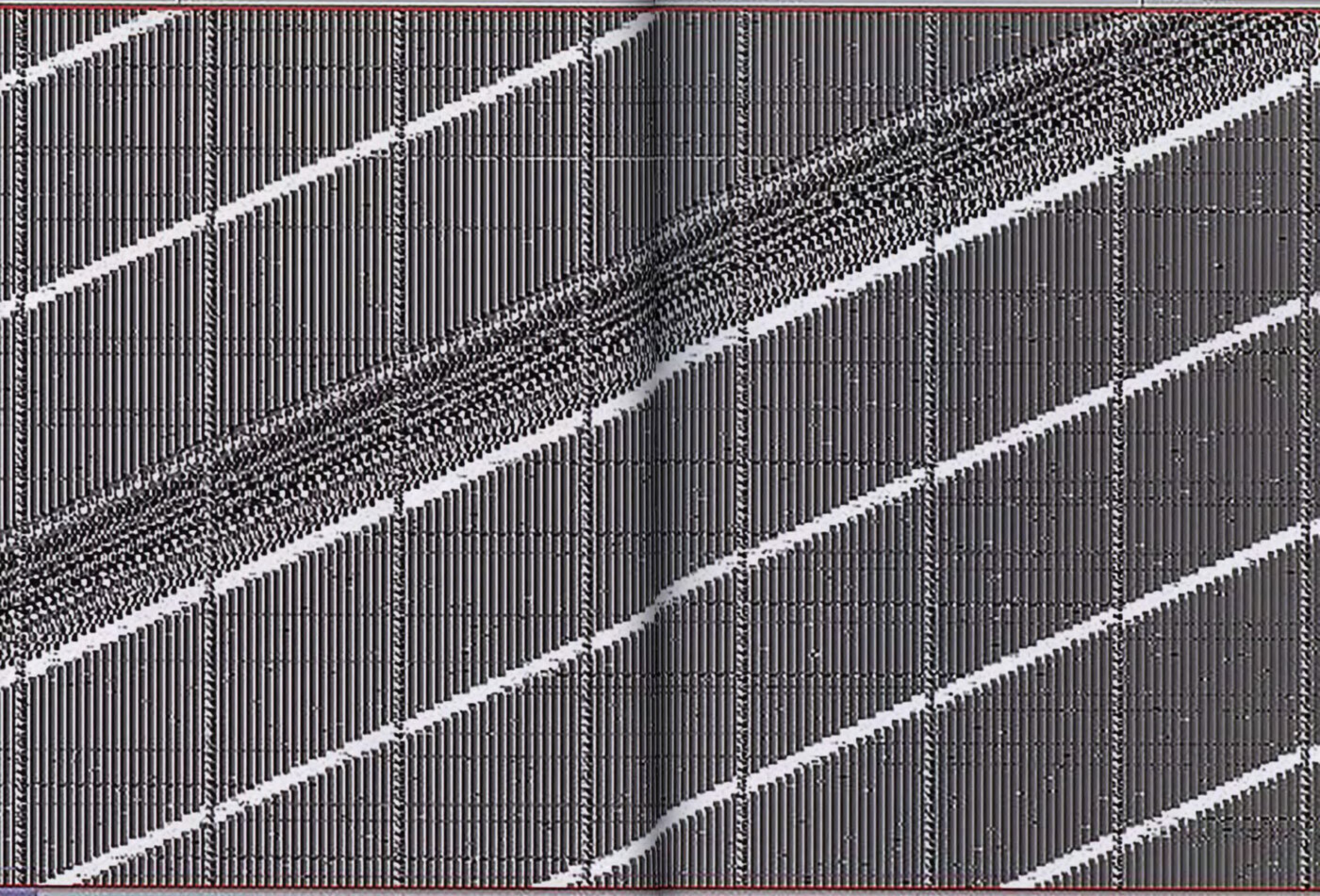


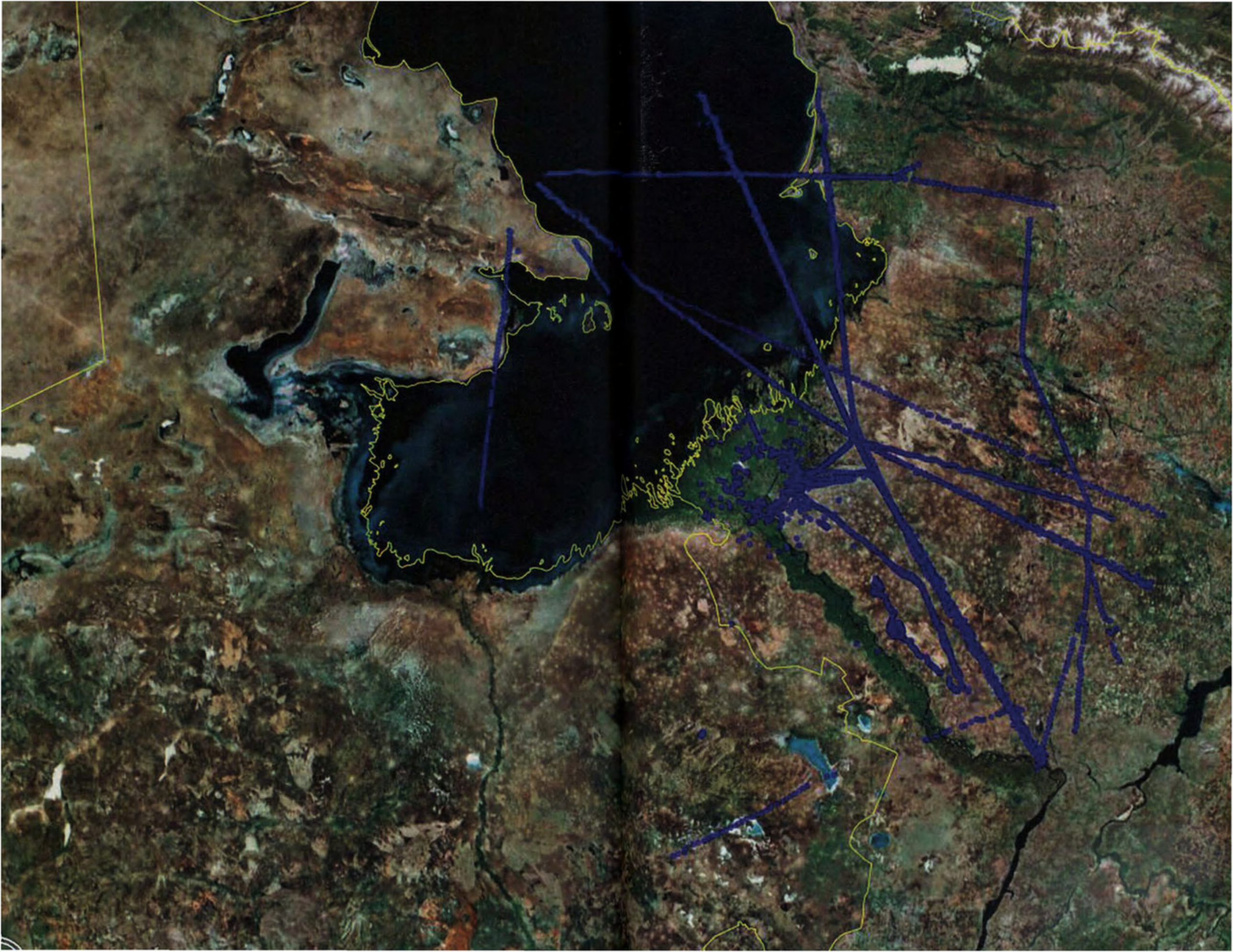

85 dy: 18.7170885 L=0 Re zH: 2.64047E+06

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Width: 8232
Scale: 1

Sheet: Worksheet 1
Name: Apply Taps (Find LRS)
Total: 261281050

Pos: 240967664
Row: 29272
Col: 560















Zikhron Ya'aqov
al-Yamun
Qubeliyah
'Ar'ara
Kafar Qara'
Himmanit
Rekhan
Ta'ibad
Jisr Az-Zarqa
Mevo Dotan
Or 'Aqiva
Pardes Hanna-Karkur
Harmesh
Bqa'ot Jalil
Hadera
Sa Nur
Shaqed
32.36N 35.057E
Berekhat Ya'ar
Berekhat Gador
Muhayyam Tulkarm
Tulkarm
Enav
Shave Shomeron
Avne Hatez
Kafar Yona
Qalansawe
Jedamim Zefon
Netanya
Tayibe
Ya'atil
Jedamim
Zeran-Qedima
Kafr Jammal
Tira
©2007 Google
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Immanu'el


30
0
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TILT=-019.4
ZOOM= 22X
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+180