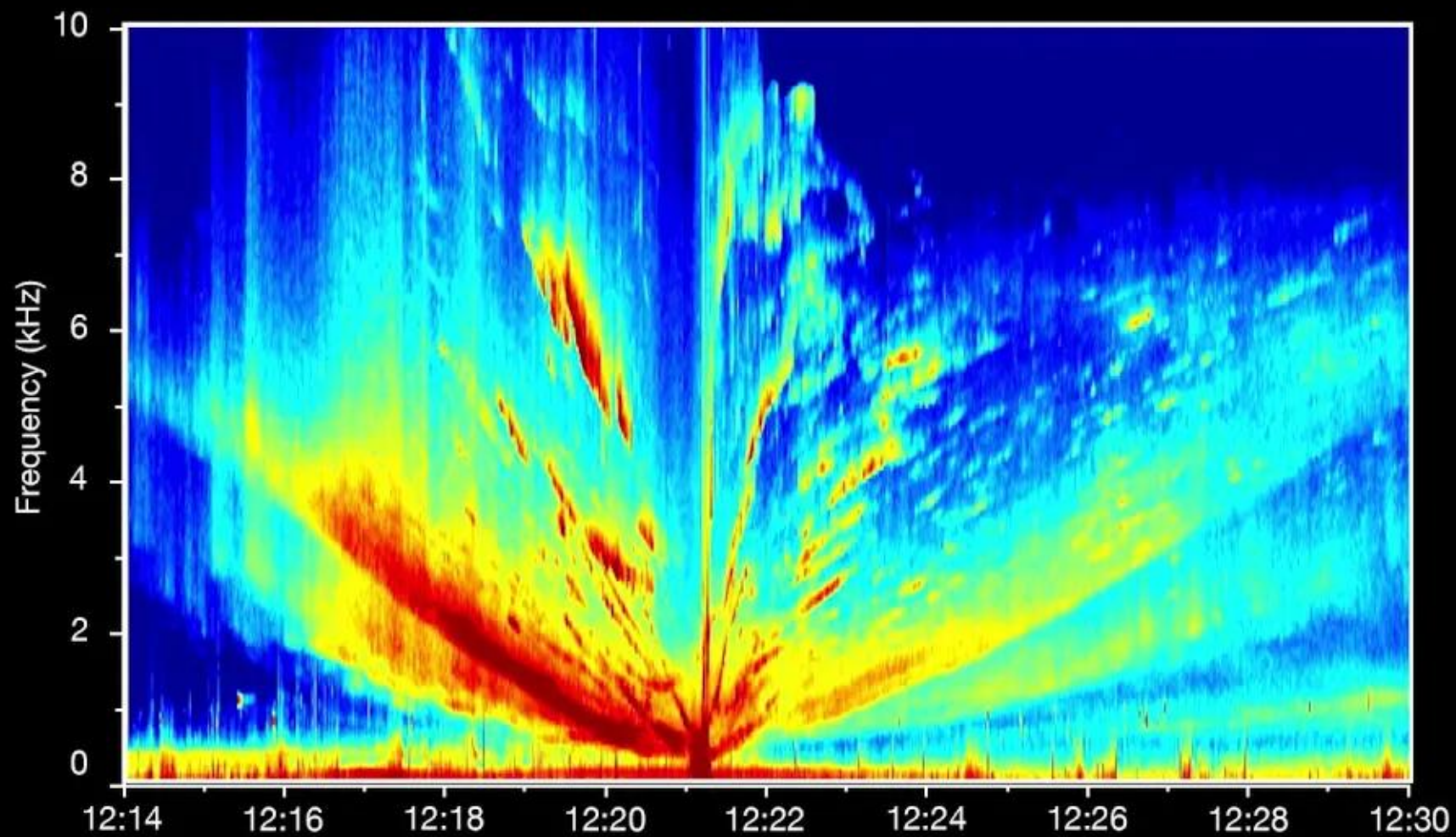


Cassini RPWS September 2, 2017



1
00:00:00,600 --> 00:00:02,235
Sounds of Saturn:

2
00:00:02,268 --> 00:00:04,837
Hear Radio Emissions of
a Planet and Its Moon

3
00:00:06,238 --> 00:00:09,375
Cassini's final orbits revealed
a powerful interaction

4
00:00:09,408 --> 00:00:12,378
between Saturn and
the moon Enceladus.

5
00:00:16,415 --> 00:00:19,018
Scientists observed plasma waves

6
00:00:19,051 --> 00:00:22,355
moving in a circuit
from planet to moon.

7
00:00:23,389 --> 00:00:25,491
The waves were converted
into audio we can hear.

8
00:00:29,995 --> 00:00:32,965
[eerie, high-pitched
sounds like wind]

9
00:00:58,657 --> 00:01:00,893
Time was compressed from 16
minutes to 28.5 seconds,

10
00:01:00,926 --> 00:01:03,162
and wave frequency was
decreased by a factor of 5.

11
00:01:03,195 --> 00:01:05,431

Cassini captured the data
on September 2, 2017,

12

00:01:05,464 --> 00:01:07,700

two weeks before the spacecraft

13

00:01:07,733 --> 00:01:09,969

plunged into Saturn's
atmosphere.

14

00:01:10,002 --> 00:01:12,405

Credit: NASA/JPL-Caltech,
University of Iowa

15

00:01:13,139 --> 00:01:14,574

NASA Jet Propulsion Laboratory