



1
00:00:00,600 --> 00:00:02,620
NASA's Stratospheric Observatory for

2
00:00:02,620 --> 00:00:05,520
Infrared Astronomy or SOFIA recently

3
00:00:05,520 --> 00:00:07,220
underwent major upgrades to its

4
00:00:07,220 --> 00:00:09,300
telescope control and avionics systems

5
00:00:09,300 --> 00:00:11,300
that will significantly improve their

6
00:00:11,300 --> 00:00:13,080
efficiency and operability.

7
00:00:13,700 --> 00:00:15,620
The new hardware and software upgrades

8
00:00:15,620 --> 00:00:17,240
fully integrate the telescope with the

9
00:00:17,250 --> 00:00:19,480
observatories command and control system

10
00:00:19,480 --> 00:00:22,180
enhancing its pointing and tracking capabilities.

11
00:00:22,840 --> 00:00:25,160
At the same time, a new avionics and

12
00:00:25,160 --> 00:00:26,280
flight management system

13
00:00:26,300 --> 00:00:28,300

with modern electronic flight displays

14

00:00:28,300 --> 00:00:29,760

was installed in the highly modified

15

00:00:29,760 --> 00:00:33,080

Boeing 747 replacing its outdated

16

00:00:33,080 --> 00:00:35,420

navigation and flight deck instrumentation.

17

00:00:35,420 --> 00:00:39,280

[sound of large jet taking off]

18

00:00:39,360 --> 00:00:41,060

The avionics upgrade allows the

19

00:00:41,060 --> 00:00:42,420

SOFIA aircraft to be in

20

00:00:42,420 --> 00:00:44,060

compliance with current airspace

21

00:00:44,060 --> 00:00:45,960

regulations throughout the world.

22

00:00:47,160 --> 00:00:49,560

The SOFIA Observatory has begun checkout flights

23

00:00:49,560 --> 00:00:51,300

in preparation for a new series

24

00:00:51,300 --> 00:00:53,020

of astronomical observations