



1
00:00:01,260 --> 00:00:03,340
NASA's Stratospheric Observatory for

2
00:00:03,360 --> 00:00:06,110
Infrared Astronomy or SOFIA, recently

3
00:00:06,130 --> 00:00:07,840
underwent major upgrades to its

4
00:00:07,860 --> 00:00:10,310
telescope control and avionics systems

5
00:00:10,330 --> 00:00:12,050
that will significantly improve their

6
00:00:12,070 --> 00:00:13,780
efficiency and operability.

7
00:00:14,230 --> 00:00:16,250
The new hardware and software upgrades

8
00:00:16,270 --> 00:00:17,880
fully integrate the telescope with the

9
00:00:17,900 --> 00:00:20,150
observatory's command and control system

10
00:00:20,370 --> 00:00:22,060
enhancing its pointing and tracking

11
00:00:22,080 --> 00:00:23,020
capabilities.

12
00:00:23,480 --> 00:00:25,830
At the same time, a new avionics and

13
00:00:25,850 --> 00:00:27,630

flight management system with modern

14

00:00:27,650 --> 00:00:29,530

electronic flight displays was installed

15

00:00:29,550 --> 00:00:32,030

in the highly modified Boeing 747,

16

00:00:32,420 --> 00:00:34,600

replacing its outdated navigation and

17

00:00:34,620 --> 00:00:36,070

flight deck instrumentation.

18

00:00:36,190 --> 00:00:39,770

(sound of large jet taking off)

19

00:00:39,990 --> 00:00:42,080

The avionics upgrade allows the SOFIA

20

00:00:42,100 --> 00:00:43,840

aircraft to be in compliance with

21

00:00:43,860 --> 00:00:45,910

current airspace regulations throughout

22

00:00:45,930 --> 00:00:46,680

the world.

23

00:00:47,700 --> 00:00:49,950

The SOFIA observatory has begun checkout

24

00:00:49,970 --> 00:00:51,980

flights in preparation for a new series of

25

00:00:52,000 --> 00:00:54,620

astronomical observations and commissioning

26

00:00:54,640 --> 00:00:56,390

of its first generation instruments