



1  
00:00:04,800 --> 00:00:06,600

Four German teachers flew

2  
00:00:06,610 --> 00:00:11,900

aboard NASA's Stratospheric Observatory  
For Infrared Astronomy in early 2014 as

3  
00:00:11,900 --> 00:00:14,180

part of a German Airborne Astronomy

4  
00:00:14,180 --> 00:00:17,000

Ambassadors Program.

5  
00:00:20,180 --> 00:00:24,000

The teachers and their German SOFIA  
Institute escort interfaced with German

6  
00:00:24,000 --> 00:00:27,400

and American scientists on the GREAT  
Spectrometer team

7  
00:00:27,400 --> 00:00:31,500

as the flying observatory became a flying  
classroom for the night.

8  
00:00:36,780 --> 00:00:38,019

The German Receiver for

9  
00:00:38,019 --> 00:00:41,769

Astronomy at Terahertz Frequencies, or  
GREAT, Spectrometer,

10  
00:00:41,769 --> 00:00:45,600

is a special instrument added to SOFIA's telescope on certain flights,

11  
00:00:45,600 --> 00:00:49,129

and it showed the teachers how the  
analysis of infrared light from

12

00:00:49,129 --> 00:00:51,500

distant objects in space can illustrate

13

00:00:51,500 --> 00:00:55,000

what elements those objects are made of.

14

00:00:59,000 --> 00:01:02,870

This first group of German educators  
took their experience back to their