



1
00:00:00,680 --> 00:00:05,009
More than 50 journalists and social media followers learned about how a

2
00:00:05,009 --> 00:00:08,669
small fleet of highly specialized aircraft support NASA's earth science

3
00:00:08,669 --> 00:00:13,079
and environmental mission at a recent Airborne Science showcase at NASA's

4
00:00:13,079 --> 00:00:16,949
Dryden Flight Research Center at Edwards Air Force Base and it's Science Aircraft

5
00:00:16,949 --> 00:00:22,169
Operations Facility in nearby Palmdale California. In addition to being able to

6
00:00:22,169 --> 00:00:26,310
see many of the aircraft and instruments used in those campaigns, participants

7
00:00:26,310 --> 00:00:30,680
were briefed on a half dozen current or near-term missions and the overall goals

8
00:00:30,680 --> 00:00:35,100
of NASA's Earth Science Program. With what we do on the Airborne Science

9
00:00:35,100 --> 00:00:39,870
Program really is enmeshed and critical with what we do with our space missions

10
00:00:39,870 --> 00:00:45,210
as well. We're NASA, we launch rockets. But, primarily from the Science Directorate

11
00:00:45,210 --> 00:00:49,469
at NASA and Earth Science in particular,
our main goal is to try to advance our

12
00:00:49,469 --> 00:00:54,030
understanding of the science itself.
Among the current or near-term missions

13
00:00:54,030 --> 00:00:58,620
covered in detail where the Discover-AQ
air quality mission in progress over

14
00:00:58,620 --> 00:01:02,519
California's San Joaquin Valley, the
PHOTEX mission that is evaluating

15
00:01:02,519 --> 00:01:07,110
three sophisticated polarimeters for use
on a future space satellite and the

16
00:01:07,110 --> 00:01:10,980
Airborne Tropical Tropopause Experiment,
a multi-year campaign that's

17
00:01:10,980 --> 00:01:15,240
investigating how the chemistry of upper
atmosphere regions, is changing Earth in

18
00:01:15,240 --> 00:01:21,390
a warming climate. Again, ATTREX is a
multi-agency multinational campaign,

19
00:01:21,390 --> 00:01:26,310
we've got investigators from NASA from
NOAA, multiple universities, private

20
00:01:26,310 --> 00:01:30,900
companies. Data from this will be made
public and be, hopefully be used

21
00:01:30,900 --> 00:01:35,520
improve the climate forecasts. NASA's
Airborne Science aircraft have diverse

22
00:01:35,520 --> 00:01:39,150
capabilities ranging from the
high-flying Er-r2 and the unmanned

23
00:01:39,150 --> 00:01:43,650
long-range Global Hawk to more
traditional aircraft like the B-200 King

24
00:01:43,650 --> 00:01:48,650
Air, a C-28, a P3V
and the DC-8 flying laboratory.

25
00:01:48,650 --> 00:01:53,480
The aircraft are based at four NASA centers
with six of the unique aircraft based at