1
00:00:00,540 --> 00:00:01,400
George Diller/NASA Launch Commentator: 10,

2
00:00:01,400 --> 00:00:01,990
9,

3
00:00:02,040 --> 00:00:02,640
8,

4
00:00:02,740 --> 00:00:03,340
7

5
00:00:03,720 --> 00:00:05,440
6,

6
00:00:05,930 --> 00:00:06,530
5,

7
00:00:06,720 --> 00:00:07,700
4,

8
00:00:08,020 --> 00:00:08,610
3,

9
00:00:08,860 --> 00:00:09,460
2,

10
00:00:10,440 --> 00:00:11,039
1,

11
00:00:11,220 --> 00:00:12,680
Main engine start

12
00:00:12,760 --> 00:00:15,500
and liftoff of the Delta II rocket with SMAP,

13
00:00:15,650 --> 00:00:20,810

making global observations of soil moisture
for climate forecasting.

14
00:00:27,640 --> 00:00:29,800
Delta II Ascent Commentator: Good chamber pressure
on the main engine.

15
00:00:31,760 --> 00:00:34,680
Good chamber pressure on both vernier engines.

16
00:00:36,000 --> 00:00:37,980
Good chamber pressure on all three solids.

17
00:00:37,989 --> 00:00:44,989
Twenty-seven seconds into the flight.

18
00:00:57,160 --> 00:01:00,040
Coming up 46 seconds, still looking good.

19
00:01:02,760 --> 00:01:08,120
50 seconds in Max-Q. Vehicle now having maximum
dynamic pressure on the vehicle.

20
00:01:08,350 --> 00:01:15,350
57 seconds. Chamber pressure beginning to
decline on the solids, as expected.

21
00:01:16,350 --> 00:01:17,659
And we have burnout of the solids,

22
00:01:17,659 --> 00:01:21,790
we■ll be holding on to those solids for
about 30 more seconds to assure a safe water-

23
00:01:21,790 --> 00:01:22,710
impact point.

24
00:01:22,710 --> 00:01:29,710
One minute, 12 seconds into the flight. Still

looking good.

25
00:01:35,380 --> 00:01:39,640
One minute, 25 seconds chamber pressure holding
on the main engine and in both

26
00:01:39,640 --> 00:01:40,840
verniers.

27
00:01:40,840 --> 00:01:43,530
One minute, 30 seconds.

28
00:01:43,530 --> 00:01:50,530
Standing by for separation.

29
00:01:53,540 --> 00:01:56,540
And we have separation of the solid rocket
motors.

30
00:01:56,540 --> 00:02:00,009
The Delta II vehicle now only weighs one-half
of what it did at launch,