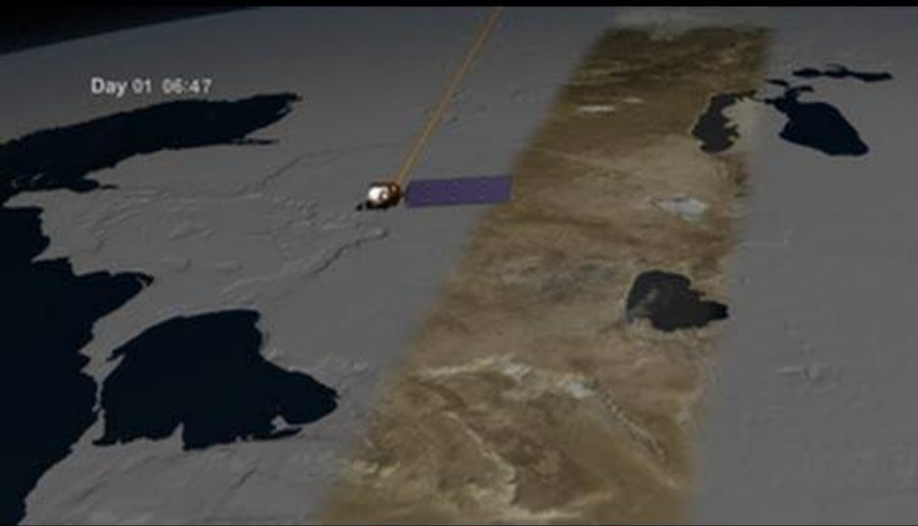


Day 01 06:47



1

00:00:00,030 --> 00:00:04,050

As a Landsat satellite flies over the surface of the Earth

2

00:00:04,070 --> 00:00:08,100

the instruments aboard the satellite

3

00:00:08,120 --> 00:00:12,150

are able to view a swath 185 kilometers wide

4

00:00:12,170 --> 00:00:16,190

and collect images along that swath as the satellite proceeds

5

00:00:16,210 --> 00:00:20,230

through its orbit. The spacecraft travels at approximately

6

00:00:20,250 --> 00:00:24,260

4.7 miles per second. The satellite travels

7

00:00:24,280 --> 00:00:28,290

from north to south while it's over the sunlit portion of the Earth,

8

00:00:28,310 --> 00:00:32,310

and travels south to north over the dark side of the Earth.

9

00:00:32,330 --> 00:00:36,320

One orbit takes about 99 minutes, so that's about

10

00:00:36,340 --> 00:00:40,380

approximately 15 orbits in a 24 hour period.

11

00:00:40,400 --> 00:00:44,410

The orbit's maintained such that after

12

00:00:44,430 --> 00:00:48,440

16 days, the entire surface of the Earth has come

13

00:00:48,460 --> 00:00:52,460

within view of the Landsat instruments, while sunlit,

14

00:00:52,480 --> 00:00:56,480

and then on day 17 the first ground path