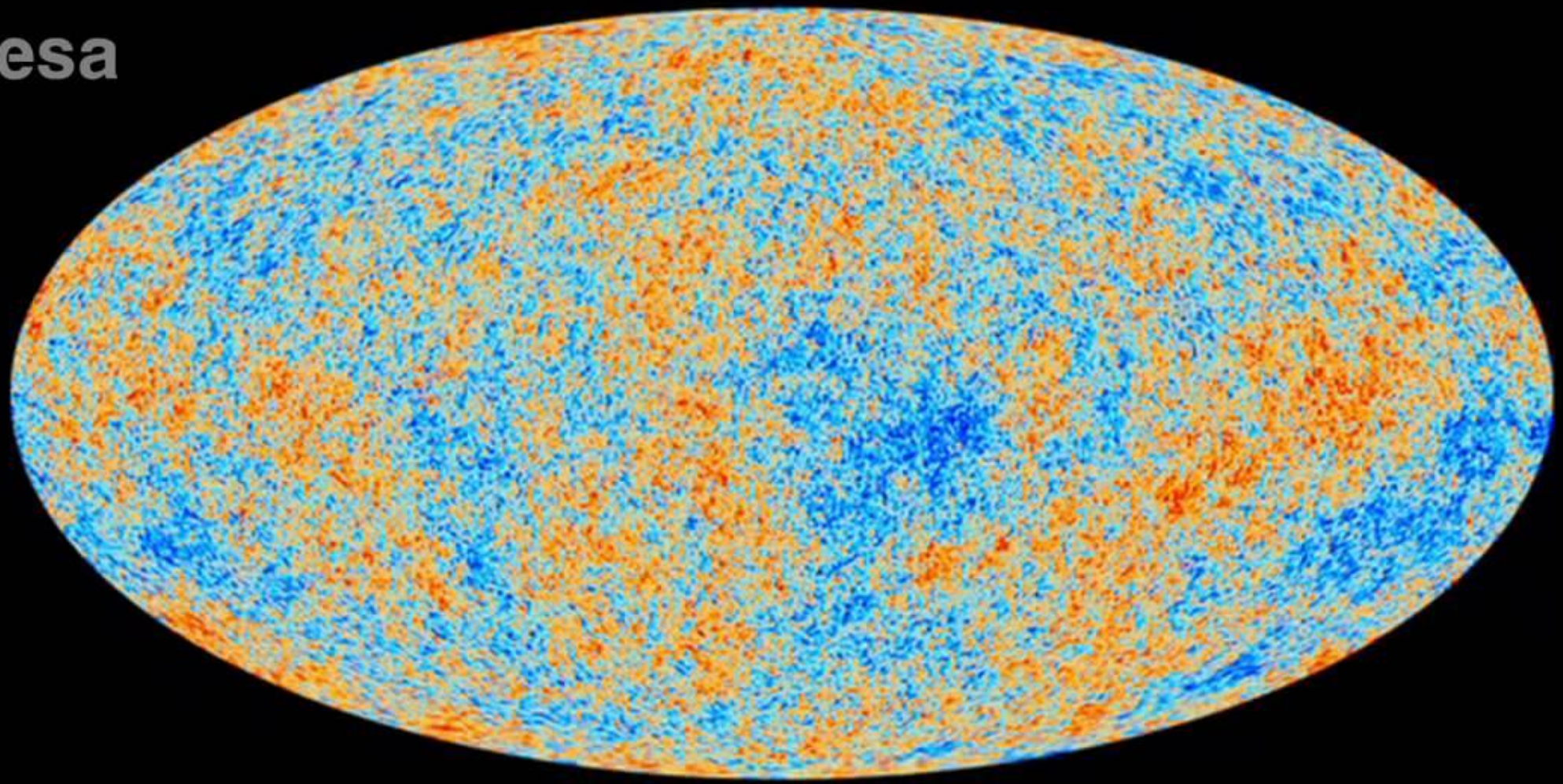
esa
Star-Forming Regions
Radio light from Milky Way
Light from Dust in Milky Way
Cosmic Microwave Background

1
00:00:00,000 --> 00:00:03,000
[Silent]

2
00:00:03,000 --> 00:00:06,000
The Planck mission was designed to measure the cosmic microwave background

3
00:00:06,000 --> 00:00:09,000
better than it's ever been measured before.

4
00:00:09,000 --> 00:00:14,000
It sees light from stars, from star-forming regions and galaxies.

5
00:00:14,000 --> 00:00:18,000
It sees light from electrons in the Milky Way.

6
00:00:18,000 --> 00:00:23,000
We can remove that light from the image.

7
00:00:23,000 --> 00:00:26,000
It sees radio emissions from the Milky Way.

8
00:00:26,000 --> 00:00:28,000
We take that light out.

9
00:00:28,000 --> 00:00:31,000
It sees light from dust in the Milky Way.

10
00:00:31,000 --> 00:00:33,000
We can remove that light.

11
00:00:33,000 --> 00:00:40,000
When we take all of those other sources of light away, we're left with the cosmic microwave background itself

12
00:00:40,000 --> 00:00:46,000
--the oldest light in the universe, traveling towards us for 13.8 billion years