

Magnetic Field Lines



Earth



1
00:00:04,710 --> 00:00:01,829
earth

2
00:00:06,710 --> 00:00:04,720
spinning through the solar system

3
00:00:09,430 --> 00:00:06,720
proudly bearing a majestic magnetic

4
00:00:11,270 --> 00:00:09,440
field emanating deep within its molten

5
00:00:13,030 --> 00:00:11,280
metallic core

6
00:00:16,150 --> 00:00:13,040
the ever-changing field is full of

7
00:00:18,390 --> 00:00:16,160
fluctuations from many sources

8
00:00:20,550 --> 00:00:18,400
satellites observing these oscillations

9
00:00:23,429 --> 00:00:20,560
let scientists identify individual

10
00:00:25,670 --> 00:00:23,439
sources creating the magnetic field

11
00:00:27,029 --> 00:00:25,680
one such source is the motion of the

12
00:00:31,910 --> 00:00:27,039
ocean

13
00:00:33,910 --> 00:00:31,920

a pull and are dragged along a little

14

00:00:37,670 --> 00:00:33,920

the back and forth of the tides cause a

15

00:00:39,910 --> 00:00:37,680

small wiggle in the magnetic field

16

00:00:42,150 --> 00:00:39,920

scientists have isolated this one small

17

00:00:44,150 --> 00:00:42,160

oceanic signal measuring it from a