



1
00:00:10,749 --> 00:00:08,860
you know you're not supposed to stare at

2
00:00:18,040 --> 00:00:10,759
the Sun but who could resist a peek at

3
00:00:20,410 --> 00:00:18,050
this a new NASA spacecraft called the

4
00:00:22,420 --> 00:00:20,420
Solar Dynamics Observatory or SDO will

5
00:00:25,420 --> 00:00:22,430
deliver startling images of the Sun with

6
00:00:27,880 --> 00:00:25,430
ten times more detail than HDTV our

7
00:00:29,640 --> 00:00:27,890
mission is to study the Sun we have

8
00:00:32,560 --> 00:00:29,650
three instruments that look at the Sun

9
00:00:34,900 --> 00:00:32,570
24 hours a day seven days a week and

10
00:00:37,330 --> 00:00:34,910
send down data the goal of the mission

11
00:00:39,790 --> 00:00:37,340
is to help scientists zoom in on solar

12
00:00:42,100 --> 00:00:39,800
activity such as sunspots solar flares

13
00:00:45,490 --> 00:00:42,110

and coronal mass ejections thus

14

00:00:48,030 --> 00:00:45,500

improving forecasts of solar storms the

15

00:00:50,950 --> 00:00:48,040

Sun puts out what we call space weather

16

00:00:54,819 --> 00:00:50,960

bright flashes of lights that we call

17

00:00:57,190 --> 00:00:54,829

flares particles what we call radiation

18

00:00:59,020 --> 00:00:57,200

here on the earth they come and affect

19

00:01:01,500 --> 00:00:59,030

both our satellites and our astronauts

20

00:01:03,940 --> 00:01:01,510

and that's just the tip of the iceberg

21

00:01:05,920 --> 00:01:03,950

electrical power to our homes satellite

22

00:01:07,480 --> 00:01:05,930

communications and navigation systems

23

00:01:10,330 --> 00:01:07,490

can all be disrupted by solar activity

24

00:01:12,520 --> 00:01:10,340

the Sun is our closest star it affects

25

00:01:17,050 --> 00:01:12,530

our life on Earth more than anything in

26

00:01:18,490 --> 00:01:17,060

the universe sto will provide a close-up