



1
00:00:00,366 --> 00:00:07,340



2
00:00:07,373 --> 00:00:11,311

The scariest thing to me
about Juno are the unknowns.

3
00:00:12,278 --> 00:00:14,747

So much about the
environment

4
00:00:14,780 --> 00:00:17,617

that we'll have to
withstand is unknown.

5
00:00:17,750 --> 00:00:25,358

(Typing)

6
00:00:25,391 --> 00:00:26,659

Nothing's really
certain about

7
00:00:26,692 --> 00:00:27,827

what's going to happen.

8
00:00:27,860 --> 00:00:30,296



9
00:00:30,329 --> 00:00:33,066

It's a monster.

10
00:00:33,099 --> 00:00:35,401

It's unforgiving.

11
00:00:35,434 --> 00:00:37,804

It's relentless.

12
00:00:37,837 --> 00:00:39,739

It's spinnin'
around so fast.

13

00:00:39,839 --> 00:00:43,643

Its gravity is like a giant
sling shot, slinging rocks,

14

00:00:43,676 --> 00:00:46,446

dust, electrons,
whole comets.

15

00:00:46,579 --> 00:00:50,283

Anything that gets close
to it, becomes its weapon.

16

00:00:51,283 --> 00:00:52,718

(impact)

17

00:00:52,751 --> 00:00:54,420

■

18

00:00:54,453 --> 00:00:58,157

It just so happens,
deep inside this body

19

00:00:58,190 --> 00:01:00,460

are the secrets we're after.

20

00:01:01,160 --> 00:01:03,429

Secrets about our
early solar system.

21

00:01:03,462 --> 00:01:08,267

■

22

00:01:08,300 --> 00:01:10,336

It's the biggest and baddest
planet in the solar system

23

00:01:10,369 --> 00:01:12,338
and the it's got the biggest
and baddest radiation

24

00:01:12,371 --> 00:01:14,641
and the biggest and
baddest magnetic field.

25

00:01:15,808 --> 00:01:17,810
The background radiation
that we're exposed to

26

00:01:17,843 --> 00:01:20,847
on Earth is about a
third of a rad.

27

00:01:21,514 --> 00:01:23,783
What we expect to
see at Jupiter

28

00:01:23,816 --> 00:01:26,786
is about 20 million rad.

29

00:01:27,620 --> 00:01:31,491
No spacecraft has ever
flown this close to Jupiter.

30

00:01:32,458 --> 00:01:35,328
Flown this deep into
the radiation belts.

31

00:01:36,662 --> 00:01:38,364
(whoosh)

32

00:01:38,397 --> 00:01:39,599
So the real trick is,

33

00:01:39,865 --> 00:01:42,135
we're gonna in close,

34

00:01:42,168 --> 00:01:43,669

get the data

35

00:01:43,702 --> 00:01:45,238

and get out.

36

00:01:45,371 --> 00:01:47,507

And the first time we go in,

37

00:01:47,540 --> 00:01:49,275

that's the most dangerous.

38

00:01:49,508 --> 00:01:52,411

We call it Jupiter

Orbit Insertion.

39

00:01:52,444 --> 00:01:53,412

(drum impact)

40

00:01:53,445 --> 00:01:55,281

J...O...I.

41

00:01:55,314 --> 00:01:59,819

(drum impact and strings)