



**Exploring Our Solar System**  

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**with Dr. Amy Simon**

1  
00:00:10,870 --> 00:00:06,700

[Music]

2  
00:00:13,190 --> 00:00:10,880

i would say as a child i was always

3  
00:00:15,589 --> 00:00:13,200

interested in all things kind of science

4  
00:00:16,290 --> 00:00:15,599

related i liked rocks i like dinosaurs i

5  
00:00:17,990 --> 00:00:16,300

like planets

6  
00:00:20,230 --> 00:00:18,000

[Music]

7  
00:00:22,150 --> 00:00:20,240

but my pivotal moments i think i had two

8  
00:00:24,310 --> 00:00:22,160

of them and the first was the space

9  
00:00:25,670 --> 00:00:24,320

shuttle program and sally ride and the

10  
00:00:27,830 --> 00:00:25,680

fact that you know she was the first

11  
00:00:30,230 --> 00:00:27,840

american woman in space and i really

12  
00:00:34,229 --> 00:00:30,240

wanted to do that

13  
00:00:35,750 --> 00:00:34,239

but the second was the voyager flybys

14

00:00:37,510 --> 00:00:35,760

and while i don't really have memories

15

00:00:45,590 --> 00:00:37,520

of the jupiter flyby i distinctly

16

00:00:49,910 --> 00:00:47,910

and getting these images of these alien

17

00:00:51,510 --> 00:00:49,920

worlds these funny moons that you know

18

00:00:53,189 --> 00:00:51,520

all different colors all sorts of things

19

00:00:54,950 --> 00:00:53,199

going on there that we didn't understand

20

00:00:57,029 --> 00:00:54,960

and really that cemented for me i wanted

21

00:00:58,389 --> 00:00:57,039

to study space science there was no

22

00:00:58,750 --> 00:00:58,399

other question that's what i was going

23

00:01:10,830 --> 00:00:58,760

to

24

00:01:16,789 --> 00:01:14,870

do so as a planetary scientist i study

25

00:01:19,030 --> 00:01:16,799

the planets in our solar system

26

00:01:20,789 --> 00:01:19,040

primarily the outer planets and i'm

27

00:01:23,030 --> 00:01:20,799

interested in their atmospheres and how

28

00:01:25,350 --> 00:01:23,040

they work and what they can teach us as

29

00:01:32,550 --> 00:01:25,360

a laboratory for atmospheres all over

30

00:01:36,149 --> 00:01:34,310

my background is

31

00:01:38,469 --> 00:01:36,159

a little interesting

32

00:01:40,310 --> 00:01:38,479

i actually originally wanted to study

33

00:01:42,069 --> 00:01:40,320

mars geology

34

00:01:44,950 --> 00:01:42,079

but when i started my graduate school

35

00:01:47,590 --> 00:01:44,960

career i had an opportunity to work on

36

00:01:49,190 --> 00:01:47,600

jupiter data particularly with hubble

37

00:01:51,429 --> 00:01:49,200

calibrating some of the early images

38

00:01:53,749 --> 00:01:51,439

before hubble had its corrective optics

39

00:01:56,069 --> 00:01:53,759

right before the shoemaker levy 9 common

40

00:01:57,670 --> 00:01:56,079

impacts into jupiter

41

00:01:59,429 --> 00:01:57,680

and then we had this great encounter

42

00:02:01,270 --> 00:01:59,439

where we had all these commentary pieces

43

00:02:03,429 --> 00:02:01,280

hitting in but it was a new camera on

44

00:02:05,830 --> 00:02:03,439

hubble after the corrective optics so

45

00:02:08,229 --> 00:02:05,840

you know wow all these great new images

46

00:02:09,669 --> 00:02:08,239

and i kind of got sold into this is

47

00:02:12,390 --> 00:02:09,679

really what i want to do to study the

48

00:02:14,070 --> 00:02:12,400

atmospheres of planets

49

00:02:16,150 --> 00:02:14,080

hubble space telescope's been looking at

50

00:02:17,910 --> 00:02:16,160

jupiter for the past 25 years and this

51  
00:02:20,229 --> 00:02:17,920  
particular image taken just a few days

52  
00:02:21,990 --> 00:02:20,239  
ago we can see the dynamic cloud bands

53  
00:02:24,150 --> 00:02:22,000  
all the swirling clouds and colors on

54  
00:02:26,390 --> 00:02:24,160  
jupiter of course and the great red spot

55  
00:02:27,830 --> 00:02:26,400  
but we also see wave features and

56  
00:02:29,110 --> 00:02:27,840  
smaller storms in the atmosphere so

57  
00:02:31,190 --> 00:02:29,120  
we're learning a lot about jupiter's

58  
00:02:34,690 --> 00:02:31,200  
weather basically by doing these hubble

59  
00:02:34,700 --> 00:02:59,110  
[Music]

60  
00:03:02,149 --> 00:03:00,550  
i would say i'm not really good at

61  
00:03:04,229 --> 00:03:02,159  
looking towards the future of

62  
00:03:06,470 --> 00:03:04,239  
envisioning exactly where i'll be in 10

63  
00:03:08,309 --> 00:03:06,480

years but you know i want to see more

64

00:03:10,309 --> 00:03:08,319

missions to the outer solar system i

65

00:03:12,390 --> 00:03:10,319

think we have a lot left to do out there

66

00:03:14,550 --> 00:03:12,400

and i am looking forward to the day when

67

00:03:16,390 --> 00:03:14,560

we are ready to launch a mission to

68

00:03:19,030 --> 00:03:16,400

neptune or even another mission to

69

00:03:21,450 --> 00:03:19,040

saturn and i certainly hope to be part