



1
00:00:19,210 --> 00:00:16,900
nineteen eighty-four marked a year of

2
00:00:21,490 --> 00:00:19,220
five Space Shuttle missions together

3
00:00:24,720 --> 00:00:21,500
logging over fifteen point two million

4
00:00:28,030 --> 00:00:24,730
miles in authority living working and

5
00:00:39,580 --> 00:00:28,040
experimenting in space we achieved what

6
00:00:41,350 --> 00:00:39,590
we had never done before February for

7
00:00:49,299 --> 00:00:41,360
the first time in history man lost his

8
00:00:51,639 --> 00:00:49,309
dependency on a spaceman astronaut Bruce

9
00:00:53,860 --> 00:00:51,649
McCandless maneuvered 300 effortless

10
00:00:56,709 --> 00:00:53,870
feet away from the shuttle in his manned

11
00:00:58,479 --> 00:00:56,719
maneuvering unit this new tool provides

12
00:01:00,669 --> 00:00:58,489
us with a means of extending man's

13
00:01:09,790 --> 00:01:00,679

physical presence outside the confines

14

00:01:11,620 --> 00:01:09,800

of the space shuttle Challenger again

15

00:01:14,500 --> 00:01:11,630

flew in April on a mission to capture

16

00:01:18,010 --> 00:01:14,510

and repair a failed scientific satellite

17

00:01:20,859 --> 00:01:18,020

called solar max the satellite designed

18

00:01:22,810 --> 00:01:20,869

to study the Sun was very carefully out

19

00:01:25,440 --> 00:01:22,820

of orbit by the remote manipulator arm

20

00:01:28,420 --> 00:01:25,450

and berth in the shuttles payload bay

21

00:01:30,609 --> 00:01:28,430

Jim van haften and George Nelson spent

22

00:01:32,920 --> 00:01:30,619

over seven hours repairing its failed in

23

00:01:37,719 --> 00:01:32,930

approach before releasing it back on the

24

00:01:39,789 --> 00:01:37,729

surface never before had a satellite

25

00:01:45,719 --> 00:01:39,799

been retrieved and repaired while in

26

00:01:50,050 --> 00:01:48,010

another team effort made further

27

00:01:52,899 --> 00:01:50,060

advances during the October flight of

28

00:01:54,999 --> 00:01:52,909

challenger Kathy Sullivan and David Lisa

29

00:01:58,179 --> 00:01:55,009

completed tests and a new system

30

00:01:59,950 --> 00:01:58,189

developed for refuel setbacks Kathy

31

00:02:27,570 --> 00:01:59,960

Sullivan became the first American woman

32

00:02:27,580 --> 00:02:40,000

maneuvering

33

00:02:40,010 --> 00:02:44,699

by both home

34

00:02:50,170 --> 00:02:47,830

they snared through feign communication

35

00:03:00,430 --> 00:02:50,180

satellites and physically help lower the

36

00:03:02,470 --> 00:03:00,440

multi tone devices in skillful teamwork

37

00:03:04,750 --> 00:03:02,480

and the assistance of dr. Anna Fisher

38

00:03:11,050 --> 00:03:04,760

with the remote manipulator arm made all

39

00:03:13,210 --> 00:03:11,060

this possible marking a year of many

40

00:03:15,640 --> 00:03:13,220

achievements the Space Shuttle will