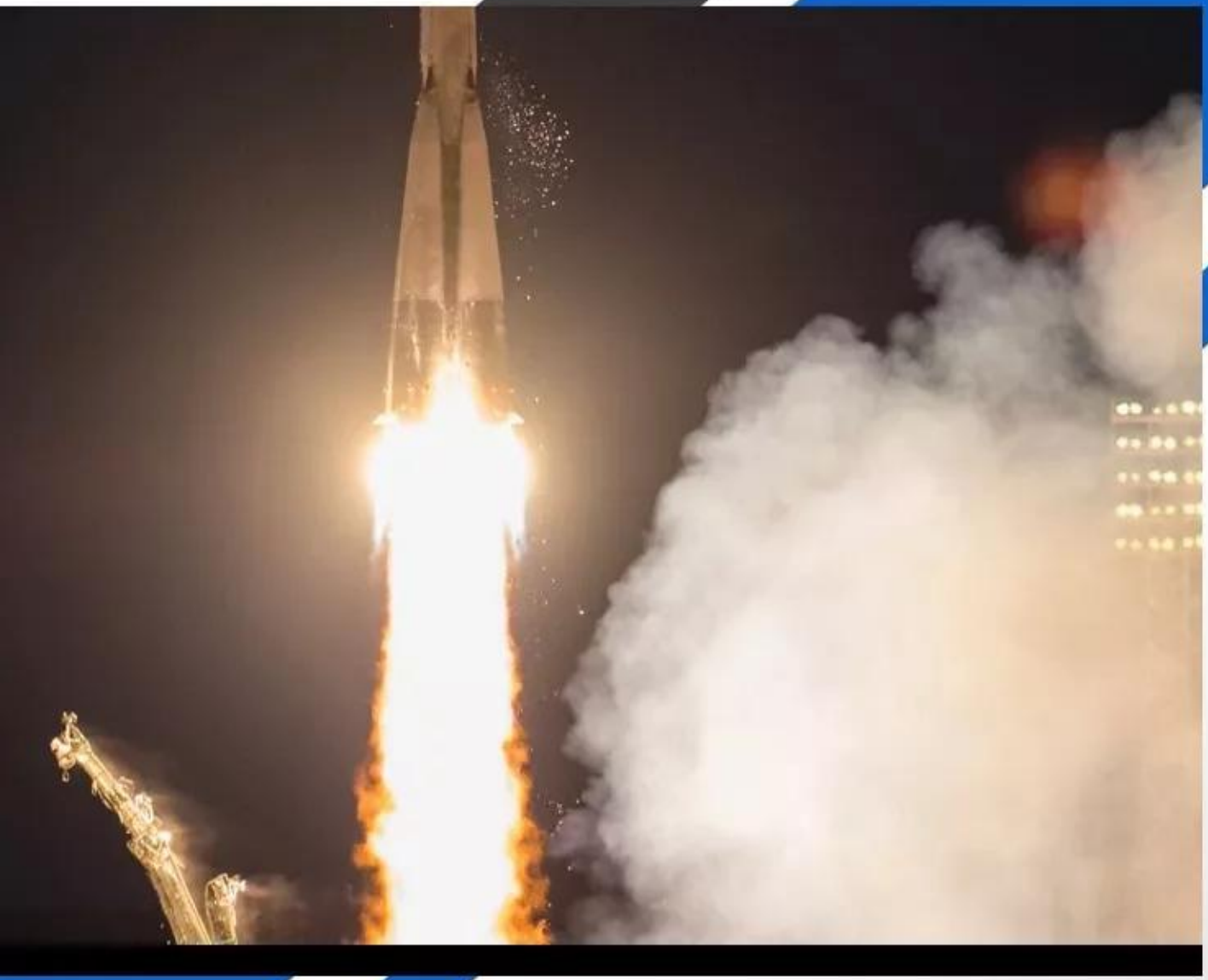

SPACE TO GROUND

1
00:00:00,600 --> 00:00:02,560
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:03,340 --> 00:00:05,440
WELCOME TO SPACE TO
GROUND, I'M DAN HUOT.

3
00:00:05,720 --> 00:00:08,260
THE SUMMER ROAD TRIP HAS
COME TO AN END AND WE'RE BACK

4
00:00:08,260 --> 00:00:10,760
INSIDE THE SPACE VEHICLE
MOCKUP FACILITY

5
00:00:10,760 --> 00:00:13,446
THIS TIME TO SHOW OFF HOW THREE NEW
CREW MEMBERS JUST RODE

6
00:00:13,446 --> 00:00:14,946
IN STYLE TO THE SPACE STATION.

7
00:00:16,296 --> 00:00:19,876
THIS IS THE RUSSIAN SOYUZ,
WHICH CARRIES UP TO THREE PEOPLE

8
00:00:19,876 --> 00:00:21,806
AT A TIME TO AND FROM SPACE.

9
00:00:22,500 --> 00:00:25,780
WHILE THE VEHICLE HAS RECEIVED A
LOT OF UPGRADES OVER THE YEARS,

10
00:00:25,780 --> 00:00:30,256
THE SOYUZ FIRST FLEW BACK IN
1967 AND WAS ORIGINALLY DESIGNED

11
00:00:30,256 --> 00:00:31,826

TO TAKE COSMONAUTS TO THE MOON.

12
00:00:32,440 --> 00:00:34,700
IT'S MADE UP OF THREE
SEPARATE MODULES,

13
00:00:34,700 --> 00:00:36,500
LAUNCHES ON THE SOYUZ ROCKET

14
00:00:36,500 --> 00:00:38,840
AND LANDS VIA PARACHUTE
IN KAZAKHSTAN.

15
00:00:39,720 --> 00:00:42,140
AND THREE NEW CREW
MEMBERS JUST TOOK A SOYUZ

16
00:00:42,140 --> 00:00:43,300
FOR A RIDE INTO ORBIT.

17
00:00:43,980 --> 00:00:47,916
NASA ASTRONAUT RANDY BRESNIK,
SERGEY RYAZANSKIY OF ROSCOSMOS

18
00:00:47,920 --> 00:00:51,680
AND PAOLO NESPOLI OF THE
EUROPEAN SPACE AGENCY LAUNCHED

19
00:00:51,680 --> 00:00:54,340
AT THE END OF LAST WEEK FROM
THE BAIKONUR COSMODROME.

20
00:00:54,946 --> 00:00:57,866
AFTER A STUNNING LAUNCH,
THEY CHASED DOWN THE STATION

21
00:00:57,866 --> 00:01:01,046
IN JUST SIX HOURS AND DOCKED
TO THE RASSVET MODULE.

22
00:01:01,636 --> 00:01:04,096
ONCE THE HATCHES WERE OPEN,
THEY WERE WELCOMED ABOARD

23
00:01:04,100 --> 00:01:07,920
BY THEIR EXPEDITION 52 CREWMATES
AND SETTLED IN TO THEIR HOME

24
00:01:07,920 --> 00:01:09,600
FOR THE NEXT 4 AND
A HALF MONTHS.

25
00:01:10,500 --> 00:01:12,280
BUT THERE WAS LITTLE
TIME TO REST

26
00:01:12,280 --> 00:01:14,560
AS THEY JUMPED RIGHT
INTO RESEARCH MODE.

27
00:01:15,500 --> 00:01:16,780
SEVERAL OF THE CREW WORKED

28
00:01:16,780 --> 00:01:19,156
WITH THE EUROPEAN
MUSCLE ATROPHY RESEARCH

29
00:01:19,160 --> 00:01:21,300
AND EXERCISE SYSTEM, OR MARES.

30
00:01:21,840 --> 00:01:25,560
THIS BIG, COMPLEX MACHINE IN
THE COLUMBUS MODULE IS USED

31
00:01:25,560 --> 00:01:28,096
TO RESEARCH THE INS AND
OUTS OF THE HUMAN MUSCLE

32
00:01:28,096 --> 00:01:31,336

AND SKELETAL SYSTEMS TO BETTER
UNDERSTAND MICROGRAVITY'S

33
00:01:31,336 --> 00:01:32,546
EFFECTS ON THE HUMAN BODY.

34
00:01:33,240 --> 00:01:36,420
WITH THE ASTRONAUTS ACTING
AS THE TEST SUBJECTS,

35
00:01:36,420 --> 00:01:38,140
SCIENTISTS GATHER VALUABLE DATA

36
00:01:38,140 --> 00:01:41,620
ON HOW AN ASTRONAUT'S STRENGTH
CHANGES DURING SPACEFLIGHT,

37
00:01:41,620 --> 00:01:44,640
HELPING GROUND EXPERTS PLAN
BETTER WORKOUT REGIMENS

38
00:01:44,640 --> 00:01:46,640
TO KEEP THE CREWS
IN TIP-TOP SHAPE.

39
00:01:47,860 --> 00:01:50,326
AND WITH A NEW CREW
ONBOARD, IT'S TIME FOR YOU

40
00:01:50,326 --> 00:01:52,466
TO GO FOLLOW THEIR
MISSION ON SOCIAL MEDIA.

41
00:01:53,120 --> 00:01:56,640
NASA'S RANDY BRESNIK CAN BE
FOUND ON FACEBOOK, INSTAGRAM

42
00:01:56,640 --> 00:01:58,680
AND TWITTER @ASTROKOMRADE.

43
00:01:59,160 --> 00:02:02,380
RANDY WAS AN AVID PHOTOGRAPHER
WHILE ON PLANET EARTH

44
00:02:02,380 --> 00:02:03,416
AND WILL BE SHARING SOME

45
00:02:03,416 --> 00:02:05,336
OF THE INCREDIBLE
VIEWS HE'LL BE PEERING

46
00:02:05,336 --> 00:02:07,506
DOWN ON WHILE STAYING
ABOARD THE STATION.

47
00:02:08,266 --> 00:02:11,426
AND CHECK OUT VETERAN SPACE
FLIER PAOLO NESPOLI ON TWITTER

48
00:02:11,426 --> 00:02:16,466
AND INSTAGRAM @ASTRO_PAOLO AND
FACEBOOK AT ESAPAOLONESPOLI.

49
00:02:17,220 --> 00:02:20,320
FINALLY, FOLLOW SERGEY
RYAZANSKIY ON TWITTER, INSTAGRAM

50
00:02:20,320 --> 00:02:22,820
AND FACEBOOK @SERGEYISS.

51
00:02:23,980 --> 00:02:26,400
KEEP SENDING YOUR
QUESTIONS USING THE HASHTAG