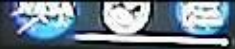




000 0:00 0:00

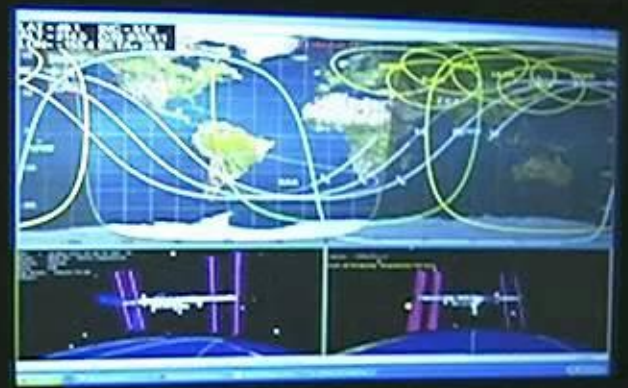


Mission Control Center



000 0:00 0:00

000 0:00 0:00



Time	Event	Status
00:00	ISS DL 1 LOG	Success
00:05	ISS DL 2 LOG	Success
00:10	ISS DL 3 LOG	Success
00:15	ISS DL 4 LOG	Success
00:20	ISS DL 5 LOG	Success
00:25	ISS DL 6 LOG	Success
00:30	ISS DL 7 LOG	Success
00:35	ISS DL 8 LOG	Success
00:40	ISS DL 9 LOG	Success
00:45	ISS DL 10 LOG	Success



OSO

ISO

CATS

POUN 4271

POUN 4274

POUN 4277

POUN 4280

POUN 4283

POUN 4286

POUN 4289

POUN 4292

POUN 4295

POUN 4298

POUN 4301

POUN 4304

POUN 4307

POUN 4310

POUN 4313

POUN 4316

POUN 4319

POUN 4322

POUN 4325

POUN 4328

POUN 4331

POUN 4334

POUN 4337

POUN 4340

POUN 4343

POUN 4346

POUN 4349

POUN 4352

POUN 4355

POUN 4358

POUN 4361

POUN 4364

POUN 4367

POUN 4370

POUN 4373

POUN 4376

POUN 4379

POUN 4382

POUN 4385

POUN 4388

POUN 4391

POUN 4394

POUN 4397

POUN 4400

POUN 4403

POUN 4406

POUN 4409

POUN 4412

POUN 4415

POUN 4418

POUN 4421

POUN 4424

POUN 4427

POUN 4430

POUN 4433

POUN 4436

POUN 4439

POUN 4442

POUN 4445

POUN 4448

POUN 4451

POUN 4454

POUN 4457

POUN 4460

POUN 4463

POUN 4466

POUN 4469

POUN 4472

POUN 4475

POUN 4478

POUN 4481

POUN 4484

POUN 4487

POUN 4490

POUN 4493

POUN 4496

POUN 4499

POUN 4502

POUN 4505

POUN 4508

POUN 4511

POUN 4514

POUN 4517

POUN 4520

POUN 4523

POUN 4526

POUN 4529

POUN 4532

POUN 4535

POUN 4538

POUN 4541

POUN 4544

POUN 4547

POUN 4550

POUN 4553

POUN 4556

POUN 4559

POUN 4562

POUN 4565

POUN 4568

POUN 4571

POUN 4574

POUN 4577

POUN 4580

POUN 4583

POUN 4586

POUN 4589

POUN 4592

POUN 4595

POUN 4598

POUN 4601

POUN 4604

POUN 4607

POUN 4610

POUN 4613

POUN 4616

POUN 4619

POUN 4622

POUN 4625

POUN 4628

POUN 4631

POUN 4634

POUN 4637

POUN 4640

POUN 4643

POUN 4646

POUN 4649

POUN 4652

POUN 4655

POUN 4658

POUN 4661

POUN 4664

POUN 4667

POUN 4670

POUN 4673

POUN 4676

POUN 4679

POUN 4682

POUN 4685

POUN 4688

POUN 4691

POUN 4694

POUN 4697

POUN 4700

POUN 4703

POUN 4706

POUN 4709

POUN 4712

POUN 4715

POUN 4718

POUN 4721

POUN 4724

POUN 4727

POUN 4730

POUN 4733

POUN 4736

POUN 4739

POUN 4742

POUN 4745

POUN 4748

POUN 4751

POUN 4754

POUN 4757

POUN 4760

POUN 4763

POUN 4766

POUN 4769

POUN 4772

POUN 4775

POUN 4778

POUN 4781

POUN 4784

POUN 4787

POUN 4790

POUN 4793

POUN 4796

POUN 4799

POUN 4802

POUN 4805

POUN 4808

POUN 4811

POUN 4814

POUN 4817

POUN 4820

POUN 4823

POUN 4826

POUN 4829

POUN 4832

POUN 4835

POUN 4838

POUN 4841

POUN 4844

POUN 4847

POUN 4850

POUN 4853

POUN 4856

POUN 4859

POUN 4862

POUN 4865

POUN 4868

POUN 4871

POUN 4874

POUN 4877

POUN 4880

POUN 4883

POUN 4886

POUN 4889

POUN 4892

POUN 4895

POUN 4898

POUN 4901

POUN 4904

POUN 4907

POUN 4910

POUN 4913

POUN 4916

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POUN 4943

POUN 4946

POUN 4949

POUN 4952

POUN 4955

POUN 4958

POUN 4961

POUN 4964

POUN 4967

POUN 4970

POUN 4973

POUN 4976

POUN 4979

POUN 4982

POUN 4985

POUN 4988

POUN 4991

POUN 4994

POUN 4997

POUN 5000

1

00:00:01,310 --> 00:00:05,760

This is the International Space Station flight control room, at NASA's Johnson Space Center

2

00:00:05,760 --> 00:00:09,140

in Houston where the team is watching over the activities

3

00:00:09,140 --> 00:00:13,350

as the Expedition 30 crew wraps up their busy week on orbit.

4

00:00:13,350 --> 00:00:19,430

Commander Dan Burbank, Flight Engineers Anton Shkaplerov, Anatoly Ivanishin, Oleg Kononenko,

5

00:00:19,430 --> 00:00:23,090

Andre Kuipers and Don Pettit stood by on Wednesday

6

00:00:23,090 --> 00:00:27,340

as the Automated Transfer Vehicle docked to the aft end of the station

7

00:00:27,340 --> 00:00:35,840

to the Zvezda module The ATV "Edoardo Amaldi" launched from Kourou in French Guiana Thursday

8

00:00:35,840 --> 00:00:43,190

of the previous week carrying more than 7 tons of supplies for the space station crew.

9

00:00:43,190 --> 00:00:47,630

The European Space Agency and the Russian flight control teams did spend time

10

00:00:47,630 --> 00:00:52,600

on Friday working an issue to make sure that the station's systems will be able

11
00:00:52,600 --> 00:00:59,320
to provide enough power to the cargo ship during
a period when the solar beta angle will keep ATV

12
00:00:59,320 --> 00:01:04,030
from generating enough power of
its own through its solar arrays.

13
00:01:04,030 --> 00:01:09,720
The food, water, fuel, clothes, hardware
and experiment materials and other supplies

14
00:01:09,720 --> 00:01:16,360
that are inside ATV will ultimately be unloaded
and staged in the Permanent Multipurpose Module.

15
00:01:16,360 --> 00:01:20,880
The empty space in ATV will be
filled with trash and unneeded items

16
00:01:20,880 --> 00:01:24,770
that will all be destroyed
when the ship is undocked.

17
00:01:24,770 --> 00:01:29,270
Last Saturday morning the crew members
did have to get up a little early.

18
00:01:29,270 --> 00:01:31,900
They were ordered to spend
time sheltering in place

19
00:01:31,900 --> 00:01:37,110
in their Soyuz vehicles during the closest
approach of a piece of satellite debris,

20
00:01:37,110 --> 00:01:43,980
which passed safely by the International Space
Station at about 2:38 Houston time that day.

21
00:01:43,980 --> 00:01:49,880
The first tracking of a hunk of a Cosmos
satellite had come the prior day -

22
00:01:49,880 --> 00:01:54,510
too late to plan and then execute
a debris avoidance maneuver

23
00:01:54,510 --> 00:01:57,350
and move the entire station out of the way.

24
00:01:57,350 --> 00:02:01,550
It is just the third time that a station
crew has had to shelter in the Soyuz

25
00:02:01,550 --> 00:02:04,540
for a possible conjunction with debris.

26
00:02:04,540 --> 00:02:08,900
Throughout the week Flight Engineers Anton
Shkaplerov and Anatoly Ivanishin worked

27
00:02:08,900 --> 00:02:12,710
on a Russian experiment that
tests out principles and methods

28
00:02:12,710 --> 00:02:16,070
for controlling leaks inside a spacecraft.

29
00:02:16,070 --> 00:02:19,750
And their colleague Oleg Kononenko
spent time throughout the week

30
00:02:19,750 --> 00:02:23,560
on Earth observation photography
plus a Russian experiment

31
00:02:23,560 --> 00:02:30,280
in which the crew members can measure carbon

dioxide and methane in the Earth's atmosphere.

32

00:02:30,280 --> 00:02:36,090

On Thursday Kornienko, Kuipers and Pettit had a Soyuz emergency egress drill

33

00:02:36,090 --> 00:02:39,960

in which they routinely, they practiced the steps they would have to take

34

00:02:39,960 --> 00:02:44,200

up if they were called upon to make an emergency departure from the station.

35

00:02:44,200 --> 00:02:49,340

These three crew members are due to remain in orbit until July.

36

00:02:49,340 --> 00:02:55,750

Pettit joined Dan Burbank during the week in routing cables inside the Destiny laboratory

37

00:02:55,750 --> 00:03:02,290

for the new High Rate Communication System which will add additional voice and video channels

38

00:03:02,290 --> 00:03:06,300

to improve communications between the station and the ground.

39

00:03:06,300 --> 00:03:10,190

Burbank also spent time working with the VO2max experiment,

40

00:03:10,190 --> 00:03:15,470

which is a way to measure the maximum oxygen uptake of a crew member.

41

00:03:15,470 --> 00:03:19,930

It's part of the overall careful

monitoring plan of all of the crew members

42

00:03:19,930 --> 00:03:24,470
to get more information to find
out just how prolonged exposure

43

00:03:24,470 --> 00:03:30,300
in a microgravity environment impacts the
human health Pettit also conducted the first

44

00:03:30,300 --> 00:03:36,520
experiment operations with BASS, which
stands for Burning And Suppression Of Solids.

45

00:03:36,520 --> 00:03:40,420
That experiment is looking at
both the burning characteristics

46

00:03:40,420 --> 00:03:44,590
and the extinction characteristics
of a variety of different fuels.

47

00:03:44,590 --> 00:03:49,620
They're looking to find out more about
how different things burn in microgravity

48

00:03:49,620 --> 00:03:52,650
and how they burn differently
than they do on Earth.

49

00:03:52,650 --> 00:03:56,370
That's all a way of guiding the
development of new strategies

50

00:03:56,370 --> 00:04:02,320
for extinguishing accidental fires onboard
a spacecraft as well as adding to data

51

00:04:02,320 --> 00:04:08,690
of the models that are developing of fire

extinguishing techniques for use here on Earth.

52

00:04:08,690 --> 00:04:12,890

The full crew wrapped up the week with a review of emergency procedures that are specific

53

00:04:12,890 --> 00:04:17,930

to the Automated Transfer Vehicle and then looked ahead to an off-duty weekend

54

00:04:17,930 --> 00:04:22,590

with a chance for conferences with their families and some rest before getting back