

**MSG 172 - RED FD12 SHIP-TO-SHIP CALL**

**Columbia / ISS Ship-to-Ship Conversation  
Event Summary / Sequence of Voice Calls**

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Date: Red FD 12, Monday, January 27, 2003

Start Event: 11/01:55 MET (11:34am CST / 1734 GMT)  
Orbit 178 TDRE

Duration: 10 minutes

Participants: STS-107 Crew: Commander Rick Husband, Mission Specialist Laurel Clark, and Payload Specialist Ilan Ramon; Mission Specialist Kalpana Chawla is in a meal period, but is welcome to participate.

ISS Crew: Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin, NASA ISS Science Officer Don Pettit.

Location: Columbia's Flight Deck

Anticipated Topics: 1. Discussion of science on each other's vehicles  
2. General experiences on orbit

Notes: 1. TV required  
2. Event on Air-to-Ground 1  
3. There will be no OCA video uplinked to either vehicle.  
4. Calls will be coordinated by Shuttle Capcom  
5. Check orbiter geographic location before event (over northern Brazil; ISS will be over southern Russia, north of Black Sea)  
6. Background of ISS science provided below  
7. ISS will only have simultaneous S-Band audio communications to Columbia and the ground for the event.

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Shuttle Capcom: Columbia, this is Houston. Are you ready for the event?

Columbia: Houston, this is Columbia. We are ready.

Shuttle Capcom: Alpha, this is Houston. Please call Columbia for a voice check.

Alpha: Columbia, this is Space Station Alpha. How do you hear me?

Columbia: (reports voice quality. If acceptable,...)  
We are ready.

Alpha: (conducts conversation with Columbia crew, then...)

Shuttle Capcom: Columbia, this is Houston. That concludes the transmission. Thanks to the entire Expedition 6 crew onboard Alpha. We are now resuming operational Air-to-Ground communications.

ISS Capcom: Alpha, this is Houston. We are also resuming operational Space-to-Ground communications.

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Aboard the ISS, three crewmembers are also studying how the human body adapts to space, but over the course of four months. Sox is doing a great experiment to gather data on how astronauts use their lower bodies in space, for which he gets to wear a pair of very fashionable Lycra cycling tights covered with sensors all day long (FOOT experiment). They are also growing crystals and, when the repair parts arrive for their glovebox on the next Progress in early February, they will be able to study how to make “smart materials” using magnetic fluids (InSpace experiment) and improved jet turbine blades (CSLM experiment).