



SB SAT @ AMSAT \$ANS-022.07
Get Ready For SuitSat

SuitSat

AMSAT News Service Bulletin 022.07
From AMSAT HQ SILVER SPRING, MD.
January 22, 2006
To All RADIO AMATEURS
BID: \$ANS-022.07

Miles, WF1F, sends the following International Space Station ARISS
SuitSat Project Status Report.

ARISS is to activate a new hand-launched educational satellite project from the International Space station. The new education experiment is called SuitSat. The SuitSat project is on board the International Space Station and is being prepared for activation very soon. The SuitSat project has a tentative activation date of February 3, 2006. The SuitSat activation will take place during the ISS crew space walk. SuitSat will be hand-launched by the ISS crew during their early February space walk.

Since we have determined that the batteries in SuitSat may last only a few days, it is suggested that radio amateurs prepare now to receive the first transmissions so as not to miss out on this historical event! The current expected life of the SuitSat project is approximately 2 to 6 days. If you delay in setting up your station you may miss out on this educational experiment.

What is SuitSat?:

In short, the crew will toss an old spacesuit out of the airlock and let it float away as its own satellite. The Space Station crew attached an Amateur Radio beacon transmitter to the spacesuit. The SuitSat project will broadcast telemetry and voice messages to earth for as long as the batteries last. There are no solar cells on this suit satellite.

Anyone with a simple FM receiver or VHF police scanner should be able to hear the signals from SuitSat on 145.990 MHz as it orbits around the earth 15 times a day.

Voice Telemetry:

The SuitSat project will be transmitting on 145.990 MHz FM and will consist of voice telemetry, giving Mission Elapsed Time, Suit Temperature, Battery Voltage, Voice Greeting messages in multiple languages, and an SSTV image using Robot 36 format. This entire transmission cycle will repeat every 9 minutes until the batteries completely discharge.

SuitSat Transmitter:

The SuitSat transmitter is a Kenwood TH-K2, a small hand held radio, which will transmit a one-watt FM signal from SuitSat on 145.990 MHz FM downlink only. There is no uplink for this satellite.



<http://www.amsat.org>

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The ARISS team is also planning to use the Kenwood D700 transceiver aboard the ISS to rebroadcast the SuitSat signal on 437.800 MHz FM. This will allow you to hear SuitSat while the *ISS* is in range of your station.

For more specific details on the SuitSat project, please review the AMSAT and related links below.

AMSAT SuitSat information:

<http://www.amsat.org/amsat-new/articles/SuitSat/>

ARISS SuitSat Details:

<http://www.amsat.org/amsat-new/articles/BauerSuitsat/index.php>

ARISS video on SuitSat September 2005

<mms://media.wmfd.com/amsat/SuitSat.wmv>

[ANS thanks Miles, WF1F for the above information]

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SB SAT @ AMSAT \$ANS-022.08

NASA Prepares For February 3 Spacewalk

AMSAT News Service Bulletin 022.08

From AMSAT HQ SILVER SPRING, MD.

January 22, 2006

To All RADIO AMATEURS

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NASA is hosting a preview session about the next spacewalk by the International Space Station Expedition 12 crew at 2 p.m. EST, Friday, January 27 from NASA's Johnson Space Center, Houston. The event airs live on NASA TV with questions from media at participating agency locations.

The spacewalk by station Commander Bill McArthur and Flight Engineer Valery Tokarev is **Feb. 3, 2006**. It airs live on NASA TV with coverage starting at 4:30 p.m. EST. The six-hour spacewalk starts at **5:20 p.m. EST**. (SuitSat is likely to be released during this spacewalk.)

For digital downlink information and access to NASA TV's Public Channel on the Web in RealPlayer, RealAudio, or Windows Media Player, visit:

<http://www.nasa.gov/ntv>

[ANS thanks NASA for the above information.]

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SATELLITE NIGHT 1/25/06 Pat Kilroy <http://www.patkilroy.com/amsat-dc/>