

# CHRONOLOGY OF WAKEUP CALLS

Compiled by Colin Fries, NASA History Division

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*Use of music to awaken astronauts on space missions dates back at least to the Apollo Program, when astronauts returning from the Moon were serenaded by their colleagues in mission control with lyrics from popular songs that seemed appropriate to the occasion. The Apollo 15 crew, whose spacecraft was named "America," (sic) [This was actually the name of the Apollo 17 command module] was awakened one morning with a segment of "The City of New Orleans" beginning with the lyrics, "Good morning America, how are you?" Several crews have awakened on their final day in space to Dean Martin's popular song "Going Back to Houston."*

*The common element of all these selections is that they promote a sense of camaraderie and esprit de corps among the astronauts and ground support personnel. That, in fact, is the sole reason for having wake-up music; and it is the reason that NASA management has neither attempted to dictate its content nor allowed outside interests to influence the process.*

*From a letter from Lynn W. Heninger, Acting Assistant Administrator for Congressional Relations to Congressman Robert H. Michel - January 9, 1990*

## **What do astronauts listen to in outer space? Details tracks the sounds of the final frontier Details, January 2000 By Steve Knopper**

*Aboard the space shuttle Discovery, astronaut Steve Robinson once used a 50-foot Japanese robotic arm to snare a four-ton satellite. But Robinson's greatest professional challenge came on the ground. Last June, while working at mission control, he was charged with playing wake-up music for another shuttle crew. One astronaut's wife made him promise to play Barry Manilow's schmaltzy ballad "A Little Traveling Music, Please," and Robinson's flight director -- the mission control center's big boss -- insisted he play the rousing U.S. Air Force theme instead. A delicate decision.*

*"So I played 'em back-to-back. I thought they would cancel each other out," says Robinson tactfully. "The only complaints were from the navy guys on the crew. But I'm not sure if they were complaining about the air force song or Barry Manilow."*

*Think of the space shuttle as a high-tech road trip with a difference: You can't get out until the trip is over, pot and beer are forbidden, and 125 miles straight down, somebody who isn't even traveling with you gets to pick what's on the tape deck. That's often Chris Hadfield, chief mission control CAPCOM (capsule communicator), who oversees little details like wake-up music, which is broadcast on an intercom-type system with small speakers on the upper and lower decks of the shuttle.*

*"You play some lively, peppy bit of music -- normally just two minutes of it -- and after a pause, you hear some groggy voice on the microphone mumbling, "Good morning, Houston," Hadfield explains. "You don't want to play a dirge or something uninspiring. You want to get them going in the morning." Consequently, the selections are usually benign -- it's considered poor form, and possibly dangerous, to freak out a sleeping astronaut with Rob Zombie or Eminem. But the DJs at mission control have been known to exhibit a mischievous streak. Once, to the crew's sleepy confusion, Hadfield chose the booming half-U2 version of the Mission: Impossible theme.*

*The 1965 Gemini VI mission was one of the first to include onboard music. Those brave astronauts got "Hello, Dolly!," as sung by clean-cut crooner Jack Jones. For the Apollo II moon mission, flight director Eugene F. Kranz psyched himself up with John Philip Sousa marches. In 1972, the Apollo 17 crew heard the Carpenters' "We've Only Just Begun." The cheese subsided somewhat with the 1975 Apollo-Soyuz Test Project, the first U.S.-Soviet manned space flight: That crew woke to the strains of Jerry Jeff Walker's "Up Against the Wall, Redneck Mother." Since then, more anthemic fare has prevailed: the theme from Rocky (1984), "Bohemian Rhapsody" (1989), and the Star Wars theme (1993). The '93 Columbia shuttle mission had better luck with hip reveilles including the Thompson Twins' "Doctor! Doctor!" and R.E.M.'s "Shiny Happy People."*

*(It would be a different playlist if DJs did a set at mission control. Moby told Details he would play the Clash's six-gunning version of "I Fought the Law," and a little Bach or Hendrix. Master mixologist Armand Van Helden would spin Steve Miller's "Fly Like an Eagle" [what, no "Space Cowboy"?!] and David Bowie's "Space Oddity." Mr. Space Oddity himself would choose Steve Reich's "Music for 18 Musicians.")*

*Because in space no one can hear you scream, "Turn that Crap down!," personal CD players and headphones help fly guys maintain their sanity. For his space-shuttle mission last year -- the one with Senator John Glenn, who preselected Louis Armstrong's "What a Wonderful World" as the wake-up call -- astronaut Steve Robinson brought 20 discs. While riding an exercise bike on the lower level, Robinson listened to electric-blues guitarists Albert King and Stevie Ray Vaughan. While staring literally into space, he chose a musician friend's version of Pachelbel's Canon. He fell asleep to Chris Isaak. "It's one of the most personal things that you're able to take up in space. Wherever your music is, that's sort of a version of home," says Robinson. Both Robinson and Hadfield belong to a 12-year-old, all-astronaut, Houston-based rock 'n' roll quartet known as Max-Q, whose rotating members cover bash-it-out standards like "Louie Louie." Named after an aerodynamics term for "maximum dynamic pressure," the band has yet to release any albums but occasionally plays NASA functions. In 1993, they woke up the Discovery crew with a cover of "Heartbreak Hotel."*

*Such musical experience comes in handy in space -- especially if you believe in cross-cultural exchanges. Four years ago, preparing for a shuttle mission to the Mir space station, Hadfield knew he would encounter Thomas Reiter, a German astronaut and accomplished classical guitarist. He also knew earlier Mir astronauts had left a beat-up acoustic for future crews -- which, he surmised, Reiter wouldn't appreciate. So Hadfield had a company modify an electric guitar, making it lighter than usual and foldable to fit his luggage. United on Mir, 250 miles above the Earth, Hadfield and Reiter sang Beatles songs and Russian folk ballads. Air guitar, says Hadfield, was never quite like this: "It's great floating weightless going around the world, playing guitar."*

*On the way back from Mir, Hadfield set his CD player for the Celtic weeper "Danny Boy," his favorite song ever, and watched the stars go by. The experience gave "Headphone music" a whole new meaning. "There are certain stanzas of music, certain harmonies, certain lyrics, which sometimes just send a warm rush up your backbone," Hadfield says. "And you get that almost continuously up there." And to think that we here down on Earth thought Barry Manilow couldn't possibly sound any better.*

*From <http://www.knopps.com/DetailsRockSpacemen.html>*

**MERCURY PROGRAM**  
NOTHING FOUND

**GEMINI PROGRAM**

**GEMINI 3, 4, & 5**  
NOTHING FOUND

**GEMINI 6** December 15-16, 1965

New lyrics to "Hello Dolly" sung by Jack Jones sent to crew NYT 2/7/68.

**GEMINI 7** December 4-18, 1965

New lines to "Time to Get Ready for Love" were sent to the crew

12/6/65 Hawaiian music began to be broadcast to them at 1:34 p.m. *Mission Commentary, Tape 112, page 1*

12/7/65 Mission Control planned to vary the crew's musical diet with upcoming selections scheduled to be: "Beethoven's 6<sup>th</sup> Symphony", "Les Sylphides" by Chopin, "Hungarian Rhapsody #2" by Liszt, and "Madame Butterfly" by Puccini. - *Mission Commentary, Tape 141, page 1*

Also that day: "La Boheme" by Puccini, "Symphony No. 3, the Reinich" by Schumann, music by the Fantasticists, "Symphony No. 2" by Rachmaninoff, "The Lawrence of Arabia Overture", and "Water Music" by Handel. - *Mission Commentary Tape 154, page 2*

12/8/65 "High Hopes" - *Mission Commentary Tape 170, page 1*

Classical music chosen for the crew included: "The Last Two Movements From Symphony Five from The New World" presumably by Dvorak, "Perpetual Motion Opus Number 257" by Johann Strauss, and "Air on the G String" by Johann Sebastian Bach performed by the Philadelphia orchestra. - *Mission Commentary Tape 172, page 8*

12/9/65 "What'd I Say" by Trini Lopez from "Trini Lopez at P.J.s" sent to crew, a favorite of Jim Lovell's - *Mission Commentary, Tape 215, page 2*

"I Saw Mommie Kissing Santa Claus" relayed from Tananarive station for Jim Lovell. "A request from his daughter, Barbara, age 12 who hopes the song will bring her daddy home for Christmas, a little early." - *Mission Commentary, Tape 223, page 2*

12/11/65 "Hey, Look Me Over" - Louis Armstrong, sent to crew. - *Mission Commentary Tape 280, page 1*

12/18/65 "I'll Be Home For Christmas" and "Going Back to Houston" sent to crew just before retrofire. - *Mission Commentary Tape 610, page 1*

**GEMINI 8** March 16, 1966  
NOTHING FOUND

**GEMINI 9** June 3-6, 1966

6/4/66 "The Lonely Bull" by Tijuana Brass - From "The Last Man on the Moon". Copyright 1999 by Eugene Cernan and Don Davis. St. Martin's Press, LLC, New York, NY., p.124.

6/6/66 "Russian Overture" and "Ludmilla Overture" by Glinka and a composition by Johann Sebastian Bach were sent to the crew - *Mission Commentary Tape 187, page 1*

"We have had a change of pace in the music being piped in on one of the inactive (sic) loops here in Mission Control. Run the gamut of the four B's of music, Bach, Beethoven, Brahms and Brass, Tijuana Brass that is." - *Mission Commentary Tape 189, page 1*

**GEMINI 10** July 18-21, 1966  
NOTHING FOUND

**GEMINI 11** September 12-15, 1966  
NOTHING FOUND

**GEMINI 12** November 11-15, 1966

11/14/66 “My Favorite Things” from “*The Sound of Music*” sent to the crew. - *Mission Commentary Tape 240, page 2 to Mission Commentary Tape 242, page 1*

“*Going Back to Houston*” sent to crew – *Mission Commentary Tape 248, page 1 - Mission Commentary Tape 249, page 1*

71:52:11 –72:06:38 “*The Sound of Music*” by Julie Andrews from *Gemini XII Voice Communications (Air-to-Ground, Ground-to-Air, and Onboard Transcription)*

## APOLLO PROGRAM

### APOLLO 10 May 18-26, 1969

5/21/69 "On a Clear Day" by Robert Goulet  
5/22/69 "The Best Is Yet To Come" by Tony Bennett  
5/24/69 "It's Nice to Go Trav'ling" by Frank Sinatra  
5/25/69 "Come Fly With Me" wakeup from crew to Mission Control  
5/25/69 "Zippity-do-da"  
5/26/69 Bugle call for reveille.

### APOLLO 12 November 14-24, 1969

11/16/69 Bugle & Boatswain's Pipe  
02 05 05 09 "First Call to Formation" (trumpet)  
07 19 39 33 "The Yankee Clipper, Apollo 12" (chorus)  
07 19 40 08 "The Second Time Around" (chorus)  
08 15 38 21 to 08 14 40 41 "The Yankee Clipper, Apollo 12" (chorus)

### APOLLO 15 July 26-August 7, 1971

8/2/71 "Tijuana Taxi" by Tijuana Brass  
8/4/71 - Theme From "2001: A Space Odyssey" Spacecraft communicator Karl Henize  
8/6/71 - "Anchors Aweigh" For Jim Irwin.  
8/7/71 - Al Kealoha Perry - "Hawaiian War Chant" from record "Hawaii Calls."

### APOLLO 17 December 7-19, 1972

*Gene and Jack had a total of thirteen wake-up calls during the mission. Ten times Houston picked out appropriate musical selections, albeit none of them "Hail Purdue" in honor of Gene's alma mater, Purdue University. There was no music for their first two wake-up calls in space. For the third morning, Houston picked "The Jayhawk Fight Song" in honor of Ron Evans' alma mater, Kansas University. There was no music again for the fourth morning but, for the fifth call, on the day that Gene and Jack made their landing, Houston played John Denver's version of "The City of New Orleans" which features the phrase "Good morning, America, how are you?" in the chorus. "America" is, of course, the name of the Apollo 17 Command Module. For Gene and Jack's first wake-up call on the Moon, Houston picked Wagner's "The Ride of the Valkyries", a tune regularly played on mornings of final exams at Caltech, which was Jack's undergraduate school. (Gordon Fullerton and Journal Editor Eric Jones were also Caltech undergrads.) Flight Director Gerry Griffin's alma mater, Texas A&M, was honored the next morning with a rendition of "The Aggie Fight Song". Strauss' "Thus Spake Zarathustra" is associated with space because of the Stanley Kubrick/Arthur C. Clarke film "2001: A Space Odyssey".]*

*[For the rest of the mission, the selections are: Roberta Flack's rendition of "If Ever I Saw Your Face", presumably a reference to the Moon below the orbiting spacecraft; the Doors' "Come on Baby Light My Fire", to be played on the day (December 17) that the Apollo 17 crew leaves lunar orbit for the trip home; "Home for the Holidays"; The Carpenters' "We've Only Just Begun", played in the belief that the end of Apollo is not the end of humanity's lunar adventure; and, for the morning of splashdown, a dual selection of the Navy's "Anchors Away" and the U.S. national anthem, "The Star Spangled Banner."]*

*[Journal Contributor Brian Lawrence notes that "the BBC used 'Also Sprach Zarathustra' to introduce their TV coverage of all the missions."]*

Apollo Lunar Surface Journal (after 183:33:55)

02 08 35 43 - 02 09 39 39 (TEC) (12/9/72) "Jayhawk Fight Song" in honor of Ron Evans' alma mater.

04 07 05 01 - 04 07 11 04 (TEC) (12/11/72) "City of New Orleans" - John Denver ("Good Morning, America" line in song refers to Command Module, America. The wake-up call for landing day was John Denver's version of the Steve Goodman song, "The City of New Orleans," with its chorus of "Good morning, America, how are ya?" It was a happy song that had been suggested by people on the

night shift in the press room - a song that matched the mood of the crew and, indeed, country-music-fan Schmitt requested a replay while he and the others finished waking up.

From "Apollo Lunar Surface Journal"

05 14 15 05 (TEC) (12/12/72) "Ride of the Valkyries" by Wagner wake-up to Schmitt on Moon.

*"Jack Schmitt and Gordon Fullerton were both undergraduates at the California Institute of Technology. At 7:00a.m. it was traditional for students with hi-fi systems to tie them together and wake up everybody in the undergraduate dorms by playing 'The Ride' at full volume..." Bob Parker may have had the duty of choosing this piece. "In a February 1992 telephone conversation, Bob said that, if it was he who picked the piece, it was simply because he likes Wagner and can think of few things more stirring than the Ride. He also says that, in the Apollo era, the wake-up music was usually picked the night before and that they sometimes had trouble finding a recording in time."*

*From "Apollo Lunar Surface Journal"*

06 13 45 04 (TEC) (12/13/72) "Texas Aggie Fight Song" to lunar crew. Honors Flight Director's Gerry Griffin's alma mater, Texas A & M.

07 12 49 59 (TEC) (12/14/72) "Thus Spake Zarathustra" (Theme from "2001") by Richard Strauss to lunar crew

08 12 57 10 (TEC) (12/15/72) "The First Time Ever I Saw Your Face" by Roberta Flack to lunar crew. Presumably refers to face of the Moon below. Chosen by Neil Hutchinson.

09 09 30 51 - 09 09 38 54 (TEC) (Dec. 16, 1972) "Light My Fire" The Doors. Same day that crew ignites SPS and leaves lunar orbit.

10 07 50 01 (TEC) (12/17/72) "Home For the Holidays" by Jerry Vale.

11 08 20 01 (TEC) (12/18/72) "We've Only Just Begun" The Carpenters. "...played in the belief that the end of Apollo is not end of humanity's lunar adventure." From ALSJ. Followed by Christmas carol recorded by Ron Evans' neighbors. From MC.

12 07 20 02 (TEC) (12/19/72) "Anchors Aweigh" and "The Star Spangled Banner"

12 07 33 47 (TEC) (12/19/72) "Anchors Aweigh" again

## **SKYLAB**

### SKYLAB 2

6/21/73 Boatswain's Call and "Lonely Bull" by Herb Alpert & Tijuana Brass. The boatswain's pipe was directed to Pete Conrad by Paul Hand, probably because Conrad was Navy.

"You should have started doing that on about day 2," Conrad quipped.

"And the crew down here couldn't find a song for three bulls, it was only one," replied Capcom.

Conrad countered with, "Here's a little old song, love."

And then PAO filled in the background:

"That last song coming down from Skylab was out of Pete Conrad's repertoire of country-western music he has aboard."

From **Mission Commentary**

SL-II MC-1305/2

Time: 05:31 CDT, 28:10:31 GMT

### SKYLAB 3

8/21/73 "Girl from Ipanema" and "Anchors Aweigh"  
CAPCOM: Bob Crippen

8/22/73 "The Party's Over" by Julie London  
CAPCOM: Bob Crippen

8/23/73 Army Air Corps Song  
CAPCOM: Bob Crippen

8/24/73 "Come Fly With Me"

8/25/73 Selections from Julie London and Tijuana Brass  
CAPCOM: Bob Crippen

8/27/73 "My Skylab Home" written and performed by Chuck Morley of Cocoa Beach, Florida courtesy of Bill Cummings of Titusville radio station WRMF  
CAPCOM: Karl Henize

9/15/73 "Paralyzed" by Legendary Stardust Cowboy. *Sounded like Marine Close Order Drill to Owen Garriott*  
CAPCOM: Bob Crippen

9/17/73 Message from Mother Earth (the alter ego of Bob Crippen) followed by the instrumental, "Come Saturday Morning"

9/18/73 "String of Pearls" by Glenn Miller Orchestra

9/19/73 "Marine Corps Hymn" played for Jack Lousma. *Jack said Mission Control should be standing at attention.*

9/20/73 UNIDENTIFIED  
CAPCOM: Bob Crippen

9/25/73 “Going Back to Houston” (Sic), probably “Houston” by Dean Martin  
CAPCOM: Henry Hartsfield

#### SKYLAB 4

11/21/73 “The Lonely Bull” by [Herb Alpert & Tijuana Brass]?  
CAPCOM: Henry Hartsfield

11/22/73 “A Walk in the Black Forest” Symbolic of the fact that the crew of Skylab 4 will be taking a walk in the blackness of space to repair the control system for an Earth-scanning antenna.  
CAPCOM: Henry Hartsfield

11/24/73 “Paralyzed” by Legendary Stardust Cowboy  
CAPCOM: Bob Crippen

12/2/73 “Misty” by Julie London  
CAPCOM: Bob Crippen

12/3/73 Selection from “The Sea” by Rod McKuen  
CAPCOM: Bob Crippen

12/4/73 “Muskrat Ramble” by Firehouse Five Plus Two  
CAPCOM: Bob Crippen

12/5/73 UNIDENTIFIED

12/6/73 A message from the people of Germany followed by German Christmas songs. Santa Claus Day in Germany falls on this date.  
Also  
“Silent Night” by Barbra Streisand

12/7/73 “The Party’s Over” by Julie London

12/10/73 “Lonely Bull (El Solo Toro)” by Herb Alpert & Tijuana Brass

12/11/73 “Peanut Vendor” by Chet Atkins  
CAPCOM: Henry Hartsfield

12/13/73 “Eli’s Coming” by Three Dog Night

12/14/73 “Blue Tail Fly” by Burl Ives  
CAPCOM: Richard Truly

12/23/73 Christmas music “The Little Drummer Boy”

12/24/73 “The Twelve Days of Christmas”, “The Little Drummer Boy”

12/25/73 “Ring Christmas Bells”

12/28/73 UNIDENTIFIED  
CAPCOM: Bob Crippen

12/29/73 “Joy to the World” by Three Dog Night  
CAPCOM: Bob Crippen

12/30/73 “On Top of the World” by “The Carpenters”



CAPCOM: Bob Crippen

- 12/31/73 “*Come Back My Love*” by Brigitte Bardot
- 1/1/74 “*Auld Lang Syne*” Guy Lombardo  
“*Paralyzed*” by Legendary Stardust Cowboy
- 1/2/74 UNIDENTIFIED  
CAPCOM: Bruce McCandless
- 1/3/74 *Peter, Paul, and Mary medley*  
CAPCOM: Henry Hartsfield
- 1/4/74 *Chet Atkins medley*
- 1/5/74 “*Strawberry Roan*” and “*El Paso*” by Marty Robbins  
*Commander Gerald P. Carr commented: “Gene Autry, eat your heart out.”*  
CAPCOM: Henry Hartsfield
- 1/6/74 *Herb Alpert & Tijuana Brass medley*  
CAPCOM: Henry Hartsfield
- 1/12/74 “*Come Saturday Morning*”  
CAPCOM: Bruce McCandless
- 1/13/74 “*Light My Fire*” by The Lettermen (sic)  
CAPCOM: Bruce McCandless
- 1/14/74 Neil Diamond vocal  
CAPCOM: Bruce McCandless
- 1/15/74 “*The First Time Ever I Saw Your Face*”  
CAPCOM: Bruce McCandless
- 1/16/74 “*Spiders and Snakes*”  
CAPCOM: Bruce McCandless
- 1/17/74 “*O What a Beautiful Morning*”  
CAPCOM: Bob Crippen
- 1/19/74 *The Air Force Song (“Off We Go Into the Wild Blue Yonder”), “Anchors Aweigh” & “Ear Splitting Louder Boomer”* by Steppenwolf. *The last for lone civilian of crew, pilot Ed Gibson*  
CAPCOM: Bob Crippen
- 1/20/74 “*Marines Hymn*”, “*Quiet Village*”, “*Hawaiian War Chant*”  
CAPCOM: Bob Crippen
- 1/21/74 “*The Party’s Over*” by Julie London  
“*Misty*” by Julie London  
CAPCOM: William Thornton
- 1/22/74 “*Spiders and Snakes*”  
CAPCOM: Richard Truly
- 1/23/74 “*Happy Birthday*” “*For He’s a Jolly Good Fellow*” by Pogue family

*In honor of Bill Pogue*  
CAPCOM: Richard Truly

- 1/24/74 “Misty”  
CAPCOM: Richard Truly
- 1/25/74 “On Top of the World” by The Carpenters  
CAPCOM: Richard Truly
- 1/26/74 “In the Wee Small Hours of the Morning” by Julie London  
CAPCOM: Richard Truly
- 1/27/74 “El Manicero” Herb Alpert & Tijuana Brass?
- 1/28/74 “A medley of soft music...”  
CAPCOM: Henry Hartsfield
- 1/29/74 “If” by Bread;  
“Gypsies, Tramps, and Thieves” by Cher; and  
“Sensuous Woman” by Mystic Moods  
CAPCOM: Henry Hartsfield
- 1/30/74 “Ghost Riders in the Sky”  
CAPCOM: Henry Hartsfield
- 1/31/74 “Burning Love” by Elvis Presley  
CAPCOM: Henry Hartsfield
- 2/3/74 “Walk Through the Black Forest” by Herb Alpert & Tijuana Brass
- 2/4/74 "Rachmaninoff Concerto No. 3" played by Van Cliburn
- 2/5/74 “Out in the Country” by Three Dog Night” and “I Feel the Earth Move” by Carole King.  
CAPCOM: Henry Hartsfield
- 2/6/74 “Soul of Spain” by 101 Strings
- 2/7/74 “Carmen” by Bizet and “Shaft” by Isaac Hayes  
CAPCOM: Bruce McCandless
- 2/8/74 “Goin’ Back to Houston” by Dean Martin

### **APOLLO-SOYUZ TEST PROJECT (ASTP)**

July 15-24, 1975

- 7/16/75 “Good Morning Sunshine” Chicago - (Apollo crew)
- 7/18/75 “Midnight in Moscow” - (Apollo crew)
- 7/19/75 “Tenderness” Maya Kristalinskaya. Crew did not wake until later in morning - (Apollo crew)
- 7/20/75 “Tenderness” Maya Kristalinskaya . This time the crew heard it. (Apollo crew)
- 7/24/75 “Redneck Mother” Jerry Jeff Walker (Apollo crew)

## SPACE SHUTTLE

... the wakeup music is selected by the astronauts working as CAPsule COM municators (CAPCOM) for the mission. Traditionally, the music relates to mission objectives or to specific crew members. The speaker units onboard the Shuttle were designed to annunciate alarm tones, so they do not reproduce music very well. Therefore, songs chosen for wakeup must be very recognizable to the crew. Special greetings, or songs which provide commercial gain or profit cannot be used. Selected from recordings widely available to the public, the wakeup song list is reviewed and approved preflight. Within the highly structured environment of a Shuttle flight the morning wakeup presents an opportunity for levity and a bit of shared camaraderie. It tends to stand out as a human element in an otherwise complex technical enterprise.

*Kay Hire, spacecraft communicator on STS-79 in answer to a Mission Control Web question*

On shuttle, at the appropriate time, mission controllers in Houston send wake-up music to the crew. Mission control picks the songs, with suggestions from astronauts' loved ones. Sometimes a family member will request a favorite song for a loved one. The station crew wakes up the "old-fashioned" way: the buzz of an alarm clock.

“How do astronauts sleep in space?” - *FLORIDA TODAY* By Chris Kridler 12/17/02

"Some missions have two shifts, so there is someone awake 24 hours a day," he [NASA spokesman Kelly Humphries] said. "On those missions, we don't do wake-up calls. On missions when the crew is on the same shift, we send up one when they're supposed to get out of bed." The wake-up calls are orchestrated before the mission, Humphries said. "A [crew-member's] family will say, 'I'd like to send this song up to my dad, because he's on orbit and he likes this song.'" Some songs fostered team spirit, Humphries said.

“Astronauts Get Baha Men, AC/DC Wake-Up Calls” – MTV News 2/20/2001

(Please note: On-line audio links to Space Shuttle wakeup calls exists for missions STS-81 to present with the exceptions of STS-82, STS-83, STS-84, STS-94, STS-86, and STS-89. See hyperlinks provided below the text list for each applicable mission. However, there are no links for mission STS-80 and earlier missions)

### **STS-1** April 12-14, 1981

4/13/81

“Blast-Off Columbia” Roy McCall

4/14/81

Comic tape with voices of Houston DJs Hudson and Harrigan kidding Young and Crippen followed by “Reveille”.

### **STS-2** November 12-14, 1981

11/13/81

“Pigs in Space” comedy routine #1 by The Muppets.

11/14/81

“Pigs in Space” comedy routine #2 by The Muppets, preceded by rendition of “Columbia, Gem of the Ocean” by the Flight Operations Directorate group “Contraband.”

- STS-3**                    March 22-30, 1982
- 3/23/82                    "On the Road Again" by Willie Nelson
- 3/24/82                    "Marine Corps Hymn"
- 3/25/82                    The Air Force Song ("Off We Go Into the Wild Blue Yonder") for the benefit of pilot C. Gordon Fullerton, an Air Force colonel, who commented: "That will get us off to a fast start."
- 3/26/82                    "Sail Away" by Christopher Cross while over Madrid.
- 3/27/82                    Exchange of music between the ground and the *Columbia*, the *Columbia* playing for the flight control team, "I'm Sitting On Top of the World" and the flight team transmitting up "Those Magnificent Men and Their Flying Machines."
- 3/28/82                    "Six Days on the Road and I'm Gonna Make It Home Tonight" by Dave Dudley  
*NASA stretched the lyrics to make it eight days instead of six... "OK, that's good music, Houston," Lousma told capsule communicator Brewster Shaw, who had a radio station make a change in the tape.*
- 3/29/82                    CAPCOM Steve Nagil uplinked "This is My Country" to the crew and the crew responded with downlink medley of the "The Air Force Song ("Off We Go Into the Wild Blue Yonder")" and the "Marine Corps Hymn."
- STS-4**                    June 27-July 4, 1982
- 6/28/82                    "Up, Up and Away"
- 6/29/82                    "Hold That Tiger" by Auburn University Band
- 6/30/82                    Hank Hartfield's wedding anniversary and on this first air/ground pass of the day, he received taped messages from his two daughters and his wife.
- 7/2/82                    Theme from "Chariots of Fire"
- 7/3/82                    College fraternity songs, the Delta Tau Delta Fraternity for TK Mattingly, and Delta Chi for Hank Hartsfield.
- 7/4/82                    "This is My Country"
- STS-5**                    November 11-16, 1982
- 11/12/82                    "76 Trombones" from the "Music Man"
- 11/13/82                    "Cottoneye Joe"
- 11/14/82                    Marine's Hymn "Halls of Montezuma" in honor of two Marines onboard: Columbia pilot Bob Overmyer, active duty Marine Corps colonel, and Vance Brand who began his career as a Marine aviator
- 11/15/82                    "The Stroll"
- 11/16/82                    "Take Me Home, Country Roads" by John Denver
- STS-6**                    April 4-9, 1983
- 4/5/83                    "Cadets on Parade" and The Air Force Song ("Off We Go Into the Wild Blue Yonder") by the United States Air Force Academy Band
- 4/6/83                    "Teach Me Tiger" by April Stevens
- 4/7/83                    "Theme from F-Troop"  
*The significance of that being referring to this crew as the F-crew for the purposes of training documents the crews have been listed alphabetically. A-crew was the STS-1 crew –John Young, Bob Crippen. B-crew was the STS-2 crew - Dick Truly and Joe Engle. Of course, now up to STS-6. This is the F-crew and in a jocular vein they refer to themselves not as the F-crew but the F-Troop and accordingly the significance of this mornings wake up call.*  
From STS-6 AIR/GROUND TRANSCRIPT
- 4/8/83                    "The Poor Co-pilot," a tune from Korean War flying days sung by Oscar Brand and the Roger Wilco 4
- 4/9/83                    "Ode to the Lions" as rendered by Rusty Gordon. This is a Penn State song referring to the Nittany Lions, of Penn State University which is Paul Weitz alma mater. He earned his Bachelor in Aeronautical Engineering at Penn State in 1954.  
From STS-6 AIR/GROUND TRANSCRIPT

- STS-7**                    June 18-24, 1983
- 6/19/83                    *The University of Texas Fight Song, of course, a tribute to the Mission Commander, Bob Crippen who is a UT graduate. It was preceded by the Texas A&M, Texas "Aggie", Fight Song which was a greeting card to Crip from Jerry Griffin, the Center Director at JSC, who is a Texas A&M graduate.*  
From STS-7 AIR/GROUND TRANSCRIPT
- 6/20/83                    "A&M, Texas A&M Aggie War Hymn" followed by "Tufts Tonia's Day" as rendered by the Tufts University Beelzebubs, which is a student acappella group at Tufts University, Rick Hauck's alma mater.
- 6/21/83                    "Texas Aggie War Hymn" followed by "Reveille" followed by "When You're Smiling", as rendered by Mary Cleave's father, Mary Cleave, the CAPCOM for this crew, and in response, Challenger down linked some music of its own, some version of "Tequila Sunrise."
- 6/22/83                    "Texas A&M Aggie War Hymn" and the "Washington State University Cougar Fight Song", from which John Fabian is a graduate.
- 6/23/83                    The uplink music was the "Texas A&M, Texas Aggie War Hymn," followed by the incomparable Leeland Stanford Junior University Marching Band, playing the "Stanford Hymn," which of course is the alma mater of Dr. Sally Ride and it sounded like the crew down linked a Beatles' song, "A Hard Day's Night".  
From STS-7 AIR/GROUND TRANSCRIPT
- 6/24/83                    The usual few opening bars of the "Texas Aggie War Hymn;" that was followed by the "Florida State University Fight Song" played by the Florida State University Marching Chiefs. Norm Thagard is an alumnus of FSU.  
From STS-7 AIR/GROUND TRANSCRIPT

- STS-8**                    August 30-September 5, 1983
- Mission events reversed with night launch and night-day activities.
- 8/31/83                    "Georgia Tech Fight Song" for the alma mater of Commander Richard Truly.
- 9/1/83                    "Illinois Fight Song" for Mission Specialist Dale Gardner's alma mater.
- 9/2/83                    "Penn State Fight Song" for Guy Bluford's Alma Mater
- 9/3/83                    "University of North Carolina Fight Song" for alumnus Bill Thornton.
- 9/4/83                    "Tala Sawari" performed by sitar player Ravi Shankar in honor of release of Indian INSAT satellite.
- 9/5/83                    "Semper Fidelis" by John Philip Sousa. CAPCOM Brian O'Connor was a Marine Corps officer.

- STS-9**                    November 28-December 8, 1983
- The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

- STS-41-B** February 3-11, 1984
- 2/4/84 *Wake-up music had been planned to be a selection from the "Contraband," that group of NASA employees and would have featured Ron McNair, astronaut Ron McNair on the tenor sax, but that somehow got garbled in the translation going up.*  
From STS-41-B AIR/GROUND TRANSCRIPT
- 2/5/84 "A Train" by "Contraband" which features as its tenor sax player, Dr. Ron McNair
- 2/6/84 "Glory, Glory, Colorado" by the University of Colorado Band. That's the fight song of that institution which is Vance Brand's alma mater followed by "Ride High You Mustangs" the Cal Poly State University fight song which is Pilot Robert Gibson's alma mater.
- 2/7/84 *Wake up music was an armed forces medley which covered three of the services. The Marine Corp., of course is Vance Brand's alma mater. He's now a civilian but was originally trained as a Marine Corps pilot. The Navy hymn in honor of Mission Specialist, Bruce McCandless and Challenger Pilot, Hoot Gibson, both Naval Officers. And the Army song honoring the nation's first United States Army Astronaut, Bob Stewart. And the music was performed by guess who, the U.S. Air Force Academy Chorale.*  
From STS-41-B AIR/GROUND TRANSCRIPT
- 2/8/84 *North Carolina A&T University alma mater of which Mission Specialist Ron McNair is an alumnus and "Southern to the Top", the fight song from the University of Southern Mississippi, the alma mater of Mission Specialist Bob Stewart.*  
From STS-41-B AIR/GROUND TRANSCRIPT
- 2/9/84 "Theme from 'The Greatest American Hero'" in honor of that day's EVA. With some changed verses
- 2/10/84 A live rendition of The Air Force Song ("Off We Go Into the Wild Blue Yonder") from all the Air Force CAPCOMs.
- 2/11/84 "In the Mood" by "Contraband", a musical group composed of JSC employees.
- STS-41-C** April 6-13, 1984
- 4/7/84 "A Boy Named Sue" by Johnny Cash.
- 4/8/84 Fight song of the University of California at Berkeley" followed by the Lehigh University Fight Song. The first in honor of Ox van Hoften, the second in honor of T. J. Hart.
- 4/9/84 Unidentified  
*SPACECRAFT Morning, John, and that's exactly the way we feel, like we're walking on air. (Response to unidentified wakeup call)* From STS-41-C AIR/GROUND TRANSCRIPT
- 4/10/84 Theme from "Rocky"
- 4/11/84 No wakeup music sent
- 4/12/84 Unidentified  
*Mission Control Houston, that harmonious wake up music performed by CAPCOM's Guy Gardner, and John Blaha with the aid of planning team Payload Officer Rob Kelso.*  
From STS-41-C AIR/GROUND TRANSCRIPT
- 4/13/84 Fight songs from the University of Texas, for mission commander, Bob Crippen, and the University of Arizona for Pilot, Dick Scobee.
- STS-41-D** August 30-September 5, 1984
- 8/31/84 "Anchors Aweigh"
- STS-41-G** October 5-13, 1984
- 10/6/84 "Flashdance - What A Feeling" Irene Cara
- 10/9/84 Theme from the film "Rocky"
- 10/11/84 "Take Me Home, Country Roads" John Denver

- STS-51-A**      November 8-16, 1984
- 11/10/84      “Marine Corps Hymn” for the 209<sup>th</sup> birthday of the U.S. Marine Corps  
CAPCOM: Dave Hilmers
- 11/14/84      Theme from the movie, “For a Few Dollars More”  
*Bob Springer told the crew, “It’s a tribute to the day’s activities.” Springer referred to the fact that originally one group of insurance companies had agreed to pay NASA \$4.8 million to retrieve only the Palapa payload. But two months ago, another group of underwriters signed up for the Westar salvage and NASA said it would do both jobs for a total of \$5.5 million.*  
*Chicago Tribune 11/15/84*  
CAPCOM: Bob Springer
- 11/15/84      Composite tape of one line from several songs put together by Kevin Mathews, LAV FM97 in Grand Rapids, Michigan.
- STS-51-C**      January 24-27, 1985  
DoD Classified Mission with news blackout - NOTHING FOUND
- STS-51-D**      April 12-19, 1985
- 4/16/84      “Top of the World” by The Carpenters
- 4/17/84      “Rescue Aid Society” from the Disney film, “The Rescuers”.
- STS-51-B**      April 29-May 6, 1985  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-51-G**      June 17-24, 1985
- 6/18/85      “I Feel the Earth Move” by Carole King  
CAPCOM: Bob Springer
- 6/21/85      “Proud Mary” by Creedence Clearwater Revival  
CAPCOM: David Leetsma
- 6/22/85      “Sailing” by Christopher Cross  
CAPCOM: David Leetsma
- 6/23/85      **First Wakeup:** Untitled Saudi Arabian music; Theme from movie, “Jonathan Livingston Seagull” by Neil Diamond.  
CAPCOM: David Leetsma  
**Second Wakeup:** “Happy Talk” from movie “South Pacific”.  
CAPCOM: Bob Springer
- 6/24/85      1. “William Tell Overture” by Rossini  
2. “Wedding March” by Felix Mendelssohn  
3. “Get Me to the Church on Time” from “My Fair Lady” by Lerner and Loewe.  
In honor of pilot John Creighton’s upcoming marriage  
CAPCOM: David Leetsma
- STS-51-F**      July 29-August 6, 1985  
NOTHING FOUND

- STS-51-I** August 27-September 3, 1985
- 8/28/85 "Waltzing Matilda" awakened the crew as they passed over Australia.  
CAPCOM: David Leetsma
  - 8/29/85 "Over the Rainbow" – Judy Garland  
CAPCOM: David Leetsma
  - 8/30/85 "I Saw the Light" by Willie Nelson  
CAPCOM: David Leetsma
  - 8/31/85 "I Get Around" by Beach Boys  
CAPCOM: James D. Wetherbee
  - 9/1/85 "Lucky Old Sun" by Willie Nelson
  - 9/2/85 "Stormy Weather" by Willie Nelson. It was chosen due to the powerful Gulf Coast hurricane Elena observed from the Discovery.  
CAPCOMS: James D. Wetherbee/Joe Engle
  - 9/3/85 "Living in the USA" by Linda Ronstadt  
CAPCOMS: James D. Wetherbee/Joe Engle
- STS-51-J** October 3-7, 1985  
DoD Classified Mission with news blackout - NOTHING FOUND
- STS-61A** October 30-November 6, 1985  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-61-B** November 26-December 3, 1985
- 11/26/85 The Air Force Hymn for first Air Force space shuttle commander, Brewster H. Shaw, Jr.
  - 11/29/85 "America the Beautiful"
  - 11/30/85 "Marine Corps Hymn" for pilot Bryan O'Connor
  - 12/2/85 "Notre Dame Fight Song" or "Notre Dame Victory March", a joke played on Jerry Ross, a graduate of Purdue, one of Notre Dame's rivals by Jim Wetherbee.  
CAPCOM: James Wetherbee
  - 12/3/85 "Born in the U.S.A." Bruce Springsteen
- STS-61-C** January 12-18, 1986
- 1/12/86 Opening theme from "Monty Python's Flying Circus" TV show ("Liberty Bell March" by John Philip Sousa).  
CAPCOM: Shannon Lucid
  - 1/14/86 "Heart of Gold" by Neil Young
  - 1/18/86 "Stars and Stripes Forever"
- STS-51-L** January 28, 1986  
DID NOT ACHIEVE ORBIT



- STS-26**                      September 29-October 3, 1988
- 9/30/88                      Robin Williams opened with “Goooooooood Morning Discovery!!!” in “Good Morning Vietnam” style. The original recording produced by Houston area DJ from KKBQ, Mike Cahill, also included original lyrics recorded to the theme music of the TV show “Green Acres”. Robin Williams was approached by Cahill about doing the tape. NASA knew nothing of the tape until it was offered as a gift by Cahill.
- Mike Cahill, writer, producer for KKBQ Radio, Houston and a part-time on-call tour guide at JSC, said he had listened to some wake-up calls a year and a half ago and some of them were, "You know, kind of awful. So what I did was thought gee it would be nice to write, produce and custom design songs for the astronauts. I picked three tunes that were pretty catchy, that were very short and upbeat. Green Acres was the first one. I thought gosh that would be the last thing they'll expect to hear." Pat Mattingly, who works in Mission Control, found out Cahill was doing them and said they were looking for new stuff. She gave a tape to CAPCOM Kathy Sullivan.*
- Mike wrote the lyrics in early 1987. Threw in Discovery because knew it would be next Orbiter to fly. He collaborated with Mark Richardson, the leader of a band named "Eclipse." Mike and Mark worked on putting the music together. Richardson played keyboard, guitars, drum machine. Mike called on Patrick Brennan who used to be with now-defunct group "Popkorn" that played in clubs around Clear Lake to do the vocals. Mike and Mark helped out on the chorus for Green Acres.*
- Green Acres was Mike's favorite. "It was as dopey and stupid and corny as I had hoped it would be." He said he wanted to show that NASA people have a sense of humor.*
- "It's the closest I'll ever get to going to space."  
From JSC Query Book*
- 10/1/88                      Parody of Beach Boys “I Get Around” with lyrics “We orbit ‘round” was provided by radio disc jockey Mike Cahill.
- 10/2/88                      Harvey Mudd College (Claremont, CA) “Fight Song”, sung to tune of “Mickey Mouse Club” by eight HMC students with intro by Robin Williams. Harvey Mudd is the alma mater of mission specialist Pinky Nelson. He commented afterwards: “There isn’t a dry eye in the house.”
- 10/3/88                      “Fun, Fun, Fun...” Beach Boys parody with original lyrics.
- STS-27**                      December 2-6, 1988
- 12/3/88                      Army “Fight Song” and Navy “Fight Song” because “Hoot” Gibson and Bill Shepherd were Navy grads and Mike Mullane graduated from West Point.
- 12/4/88                      Theme from TV show “Rawhide” with satirical lyrics based on an inside joke between the Atlantis crew and CAPCOM members of the astronaut class of 1984.
- 12/5/88                      Using “Star Wars” theme music as background, Darth Vader’s voice awoke the crew with a message followed by satirical lyrics sung to The Beatles tune, “Do You Want to Know a Secret?” The recording was produced by Houston radio station KKBQ’s Mike Cahill, Pat Brennan, and Mark Richardson.

**STS-29**

March 13-18, 1989

*Discovery's astronauts generally toed the line on a new NASA edict to cut the comedy, at least for public viewing, but they showed some flashes of fun in space, mainly in the battle of wakeup songs. When Discovery made the first post-Challenger flight last September, the five astronauts awoke to Beach Boys music parodies and clowned for television cameras in bright Hawaiian shirts. And even though the December flight of Atlantis was a classified military mission, word leaked of special wakeup music not particularly flattering to the Pentagon. And both crews videotaped themselves playing in the weightlessness of orbit, turning somersaults, throwing a football and feeding each other candy. The tapes were shown at public gatherings. The astronauts' wacky wakeup calls and zany acrobatics got attention, which upset NASA because it felt the reports made the flights look like all play and no work.*

*"We've learned that if you crack a joke or show somebody doing something funny, that's the 10 seconds that gets on the evening news, and not the two hours of work you just showed," Discovery commander Michael Coats said in a pre-launch interview.*

*So space agency officials told Discovery's crew to cool it when the cameras or microphones were on.*

*"NASA has no official sense of humor anymore," said Bob Springer, one of Coats' crewmates. "So we're somewhat restricted now on what we can do."*

*Discovery's flight started out strictly following the policy, with wakeup calls played by Mission Control limited to presentations like the Marine Hymn, for the two crewmen who are Marines. But on Day 3, things loosened up.*

From AP-NY-03-19-89

- 3/14/89 "I Got You (I Feel Good)" James Brown  
CAPCOM: David Low
- 3/15/89 "Marine Corps Hymn" - tribute to mission specialists Bob Springer and Jim Buchli  
CAPCOM: Ken Cameron
- 3/16/89 Discovery crew woke Mission Control with theme from "Star Trek" followed by congratulatory comments from William Shatner. Mission Control responded with a medley of school songs from crew members' alma maters: "Anchors Aweigh", The Air Force Song ("Off We Go Into the Wild Blue Yonder"), and Drexel University "Fight Song"  
CAPCOM: G. David Low. He responded with ad lib: "Discovery, Houston - Beam Me Up, Scotty."
- 3/17/89 Discovery crew woke up Mission Control with "Heigh-Ho, Heigh-Ho, It's Off To Work We Go" from movie "Snow White." Mission Control replied with "Stars and Stripes Forever".  
CAPCOM: G. David Low
- 3/18/89 Mission Control sent recordings of astronauts' children shouting such things as "Get up, Dad, get out of bed and get to work" and "Hi, daddy, this is your darling daughter telling you to wake up." This was followed by "What a Wonderful World" by Louis Armstrong. The crew responded with "Homeward Bound" by Simon and Garfunkel.

**STS-30**

May 4-8, 1989

- 5/5/89 Theme music from the film, "Superman"
- 5/6/89 Crew members awakened with medley from their respective alma maters: "Anchors Aweigh", played for STS-30 commander Dave Walker - Navy "The Wild Blue Yonder" for pilot Ron Grabe and Mark Lee - Air Force Colorado State University fight song for Mission Specialist Mary Cleave; and Florida State University fight song for Mission Specialist Norm Thagard
- 5/7/89 Theme music from the film, "Rocky"
- 5/8/89 "A Hard Day's Night" The Beatles

**STS-28**

August 8-13, 1989

DoD Mission - NOTHING FOUND

- STS-34**            October 18-23, 1989
- 10/19/89            Medley: 1. "Hail Purdue", 2. "Reveille", 3. "Anchors Aweigh" as tribute to commander Don Williams and pilot Mike McCulley who were both Purdue and Naval Academy graduates.  
CAPCOM: Tammy Jernigan
- 10/20/89            University fight songs medley sent as a tribute to the Mission Specialists and their undergraduate schools: 1. University of Oklahoma for Shannon Lucid, 2. University of Connecticut for Franklin Chang-Diaz, 3. State University of New York at Buffalo for Ellen Baker.  
CAPCOM: Tammy Jernigan
- 10/21/89            "Bohemian Rhapsody" by Queen. Words "Galileo, Galileo" referring to primary payload "Galileo" were substituted for original words "Mama Mia, Mama Mia" by voice of Don McMonagle.  
CAPCOM: Tammy Jernigan
- 10/22/89            "Centerfield" John Fogerty for sports fans onboard.  
CAPCOM: Tammy Jernigan
- 10/23/89            "Fly Like An Eagle" Steve Miller Band  
CAPCOM: Ken Cameron
- STS-33**            November 22-27, 1989  
DoD Mission - NOTHING FOUND
- STS-32**            January 9-20, 1990
- 1/9/90                "What's More American?" - Words and music by Kadish Millet. Sung by Bing Crosby
- 1/10/90              Parody kidding G. David Low based on tune of "The Banana Boat Song" originally sung by Harry Belafonte.
- 1/11/90              Parody set to the tune of "Let It Snow" - with a message to the crew in the lyrics of "Bring her home" meaning the Long Duration Exposure Facility (LDEF).  
Written and recorded by "The Prox Ops Boys", Dave Thompson, Mark Schrock, Brian Bertrand, Steve Walker, Ted Rickerl, and Greg Schrage.  
From the Mission Operations Directorate's Orbit Dynamics (aka Prox Ops) Office
- 1/12/90              Parody "Hello LDEF", sung to the tune of "Hello Dolly" intended as a tribute to the cargo which was retrieved on 1/12/90. Written and sung by James C. Martin and his friend Terry Radomski. (Martin is the son of Mrs. F. C. Martin, secretary to LDEF Chief Scientist Bill Kinard)
- 1/13/90              "Attack of the Killer Tomatoes" referring to the student (SEEDS) experiment, sending 12.5 million tomato seeds into orbit aboard LDEF.
- 1/13/90              "Notre Dame Victory March" for pilot Jim Wetherbee, graduate of Notre Dame. Sung by quartet of JSC Mission Operations Directorate personnel, all Notre Dame graduates ( Lead: Mark Ferring, class of '80. Tenor: Chris McKenna, class of '84. Baritone: Pete Hasbrook, class of '85. Bass: Fisher Reynolds, class of '82)  
CAPCOM: Ken Bowersox
- 1/14/90              "Bow Down to Washington", University of Washington's fight song for Mission Specialist Bonnie Dunbar. (from tape with a bunch of fight songs performed by USC band)
- 1/15/90              "Glory, Glory, Colorado", the University of Colorado fight song, in honor of Mission Specialist Marsha Ivins.
- 1/16/90              Three-part wakeup call in honor of Shuttle Commander Dan Brandenstein's 47<sup>th</sup> birthday including: a trombone and piano ensemble playing "Danny Boy" performed by Martin and Radomski; Boston Celtics basketball forward Larry Bird offering congratulations to the crew and birthday wishes to Brandenstein; and Astronaut Office personnel singing "Happy Birthday".
- 1/17/90              "Washington and Lee" the fight song of Washington and Lee University for David Low.
- 1/18/90              "Born to Be Wild" Steppenwolf
- 1/19/90              "Anchor's Aweigh" for Lt. Commander U.S. Navy Wetherbee; and University of Wisconsin-River Falls' fight song performed by the school's pep band in honor of graduate Brandenstein

- STS-36** February 28-March 4, 1990  
DoD Mission - NOTHING FOUND
- STS-31** April 24-29, 1990
- 4/25/90 "Crew members began their day at 2:43 a.m. when Capcom Kathy Thornton woke the crew with 'Space is Our World,' an original song written by the Houston band 'Private Numbers' with the help of the STS-31 flight training team."
- 4/26/90 "Shout" by Otis Day and the Knights from the soundtrack of the movie "Animal House"
- 4/27/90 "Kokomo" by Beach Boys  
CAPCOM: Kathryn Thornton
- 4/28/90 "Cosmos" by Frank Hays on album "Don't Ask" in honor of Hubble Telescope  
CAPCOM: Kathryn Thornton
- 4/29/90 "Rise and Shine" by Raffi with Ken Whiteley  
CAPCOM: Kathryn Thornton
- STS-41** October 6-10, 1990
- 10/7/90 "Rise and Shine, Discovery!" written and performed by Boeing Aerospace & Electronics Co. Employees as a tribute to the successful deployment of the Ulysses probe, using a Boeing built booster. Sung by the Boeing Employees Choir. Michael Kysar, Boeing Choir Director, and Gloria Ball, choir member, collaborated on words and music. It includes the refrain:  
*Sailing along, sailing along,  
flying to explore the galaxy*
- 10/8/90 The Coast Guard Hymn "Semper Paratus" (Always Ready) by The Coast Guard Band in honor of Bruce Melnick, the first Coast Guard member to fly in space.
- 10/9/90 "Fanfare for the Common Man" written by Aaron Copland, one of copilot Robert Cabana's favorites, followed by:  
The University of Missouri Fight Song, to pay homage to commander Richard Searfoss' alma mater.  
CAPCOM: Story Musgrave
- 10/10/90 "The Highwayman" by The Highwaymen (Kris Kristofferson, Willie Nelson, Waylon Jennings, and Johnny Cash). For Thomas Akers, a fan of country music.
- STS-38** November 15-20, 1990  
DoD Mission - NOTHING FOUND
- STS-35** December 2-10, 1990  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-37** April 5-11, 1991
- 4/6/91 Music by Marching Illini Band from the University of Illinois. Band members had a special message for one of their alumni STS-37 commander Steve Nagel. An Illinois native, Nagel graduated from the University of Illinois in 1969.
- 4/7/91 "The Marine Corp Hymn" performed by the U. S. Naval Academy band. The music was in honor of STS 37 pilot Ken Cameron who is a lieutenant colonel in the U.S.M.C.
- 4/8/91 "Hail Purdue" by Purdue University Band for alumni Jerry Ross.
- 4/9/91 "10,000 Men of Harvard Want Victory Today" sung by Harvard Glee Club, in honor of Jay Apt, a Harvard graduate. About five minutes after the wake up call, Apt played a recorded Scottish tune from Atlantis in honor of the highest and fastest Highlanders, Ross and Cameron.
- 4/10/91 "La Bamba" by the Brass Rhythm and Reeds for Linda Godwin who played saxophone in the band. Flight director Milt Heflin played Trombone in the same band.
- 4/11/91 "Magnum PI" Theme with a greeting by Tom Selleck for Mission Specialist Linda Godwin.

**STS-39** April 28-May 6, 1991  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

**STS-40** June 5-14, 1991

|         |  |
|---------|--|
| 6/6/91  | “Great Balls of Fire” Jerry Lee Lewis  |
| 6/7/91  | A “Military Medally” Marine Corps and Air Force music for O’Connor, a Colonel in USMC and Gutierrez, a Lt. Colonel in the Air Force. |
| 6/8/91  | “Yakety Yak” by The Coasters   |
| 6/9/91  | Greetings from crew’s children followed by “Somewhere Out There” from movie “An American Tail”                                       |
| 6/10/91 | “Cow Patty”, a humorous western ballad that is a favorite of mission specialist Tammy Jernigan.                                      |
| 6/11/91 | “Shout - The Faber College Theme” by Otis Day and the Knights from the movie “Animal House”  |
| 6/12/91 | “Twistin’ the Night Away” by Sam Cooke, from the movie, “Animal House”   |
| 6/13/91 | “Chain Gang” by Nylons.  |
| 6/14/91 | “What a Wonderful World” Louis Armstrong.  |

**STS-43** August 2-11, 1991

|         |  |
|---------|--|
| 8/3/91  | “Back in the High Life” by Steve Winwood   |
| 8/4/91  | Excerpt from “Dances With Wolves” soundtrack for James Adamson who is from Montana   |
| 8/5/91  | Custom music medley sung by friends of the STS-43 crew from Rockwell-Downey, in California.  |
| 8/6/91  | Music of the Clear Lake High School Orchestra playing selections from “Phantom of the Opera.” Commander John Blaha’s daughter, Caroline, plays in the orchestra. |
| 8/7/91  | “What a Wonderful World” Louis Armstrong   |
| 8/8/91  | “Cowboy in the Continental Suit” by Chris LeDoux for country and western fan James Adamson   |
| 8/9/91  | Washington and Lee University fight song for graduate G. David Low   |
| 8/10/91 | Sounds from Shannon Lucid’s backyard.  |

**STS-48** September 12-18, 1991

|         |   |
|---------|---|
| 9/13/91 | “Hound Dog” by Elvis Presley  |
| 9/14/91 | “Release Me” by Elvis Presley. In anticipation of deployment of Upper Atmosphere Research Satellite (UARS).   |
| 9/15/91 | “Bare Necessities” from film “Jungle Book”. Played for Ken Reightler’s daughters who were in Mission Control Center viewing room.                               |
| 9/16/91 | “Are You Lonesome Tonight?” by Elvis Presley. Chosen for its line “Are you sorry we drifted apart?” referring to Discovery’s separation from its payload (UARS) |
| 9/17/91 | “Return to Sender” by Elvis Presley. In honor of expected landing.  |

- STS-44** November 24-December 1, 1991
- 11/25/91 "Space - the final frontier.  
This is the voyage of the Space Shuttle Atlantis -  
Its ten-day mission:  
To explore new methods of remote sensing and observation of the planet Earth -  
To seek out new data on radiation in space, and a new understanding of  
the effects of microgravity on the human body -  
To boldly go where two hundred and fifty-five men and women have gone before.
- Hello - Fred, Tom, Story, Jim, Tom, and especially Mario -  
This is Patrick Stewart, choosing not to outrank you as Captain Jean-Luc Picard,  
saying that we are confident of a productive and successful mission.  
Make it so."
- All this to the theme music of "Star Trek - the Next Generation"  
*Capcom Marsha Ivins contacted actor Patrick Stewart to request the  
special wakeup call for Mario Runco, a big "Star Trek" fan.* PC
- 11/26/91 Reveille (bugle call) followed by gunfire preceding "This is the Army, Mr.  
Jones" by Irving Berlin from the movie, "This is the Army."
- 11/27/91 Unidentified James Brown song.
- 11/28/91 Recorded turkey gobbles followed by "Cheeseburger in Paradise" Jimmy  
Buffett
- 11/29/91 "Twist and Shout" from the movie "Ferris Bueller's Day Off"
- 11/30/91 University of Alabama and Auburn University fight songs. For football game that day  
between the schools and Auburn graduates Jim Voss and Jan Davis. *Voss was on Atlantis for  
his first spaceflight, Davis was the Capcom.* PC
- 12/1/91 "In the Mood".
- STS-42** January 22-30, 1992  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-45** March 24-April 2, 1992  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-49** May 7-16, 1992
- 5/8/92 "God Bless the U.S.A." by Lee Greenwood.
- 5/9/92 "Rescue Me" by Fontella Bass.
- 5/10/92 Theme song from the Disney animated feature "Winnie the Pooh" with  
taped messages from Kathy Thornton's children for Mother's Day.
- 5/11/92 Theme from the film, "Rocky."
- 5/12/92 "Kokomo" by The Beach Boys.
- 5/13/92 No wakeup call.
- 5/14/92 "I Wake Up Every Morning With a Smile on My Face" by Boxcar Willie.
- 5/15/92 "Son of a Son of a Sailor" by Jimmy Buffett
- STS-50** June 25-July 9, 1992  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-46** July 31-August 8, 1992  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-47** September 12-20, 1992  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

- STS-52**            October 22-November 1, 1992
- 10/23/92            “Wake Up Columbia” an original composition by Crow Carroll
- 10/24/92            “Shake, Rattle, and Roll” by Big Joe Turner, in honor of deployment of Laser Geodynamics Satellite-II which will help measure the shake, rattle, and roll of the Earth’s crust
- 10/26/92            “The World is Waiting for the Sunrise” written by Gene Lockhart and performed by Les Paul and Mary Ford.  
CAPCOM: Don Thomas
- 10/27/92            Birthday wishes to STS-52 Pilot Mike Baker woke Columbia's crew
- 10/28/92            Hawaiian music set the tone for today's planned discussion between the STS-52 crew, students at the University of Hawaii and the Polynesian sailing canoe "Hokulea" located somewhere in the South Pacific.
- 10/29/92            “Mack the Knife” Bobby Darin
- 10/30/92            “Bang the Drum” Todd Rundgren, in honor of Max-Q drummer and Mission Commander Jim Wetherbee.
- 10/31/92            “Monster Mash” Bobby “Boris” Pickett
- 11/1/92             “Notre Dame Victory March” sung by JSC employees and Notre Dame grads, Chris McKenna, Mark Ferring, Pete Hasbrook, and Fisher Reynolds. Notre Dame is also the alma mater of Wetherbee.
- STS-53**            December 2-9, 1992 (Dog Crew I)
- 12/3/92             “Jingle Bells” by the Singing Dogs.
- 12/4/92             “I Want to Be a Dog”, a children’s song by Nancy Cassidy
- 12/5/92             Bagpipe medley by Houston Highlanders Pipe Band. (Medley: Bonnie Dundee, Gary Green, and The Eyes of Texas).
- 12/7/92             “Anchor’s Aweigh” played for crew members Dave Walker and Bob Cabana
- 12/8/92             “Caissons Go Rolling Along” by Bob Sharples and His Military Band in honor of Army Lieutenant Colonels Jim Voss and Rich Clifford.
- STS-54**            January 13-19, 1993
- 1/14/93             The Air Force Song (“Off We Go Into the Wild Blue Yonder”).
- 1/15/93             “Hail Purdue” by Purdue Band and Glee Club. For Greg Harbaugh, a Purdue alumnus.
- 1/16/93             No wakeup call sent.
- 1/17/93             “Centerfield” by John Fogerty.
- 1/18/93             “Stardust” by Willie Nelson
- 1/19/93             “Ain’t Misbehavin’” by Eddie Higgins and Rebecca Parris
- STS-56**            April 8-17, 1993
- The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-55**            April 26-May 6, 1993
- The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

**STS-57**            June 21-July 1, 1993

6/22/93            "Sitting on Top of the World" by Les Paul and Mary Ford

6/23/93            "The Smurfs" in honor of Mission Specialist Nancy Sherlock, nicknamed "Smurf".

6/24/93            "Rendezvous" by The Hudson Brothers

6/25/93            "The Walk of Life" by Dire Straits in honor of upcoming space walk

6/26/93            "Holiday" by Madonna ... "to suggest the crew take some time to celebrate the success of their mission."

6/27/93            "I Got You (I Feel Good)" by James Brown, "...a favorite tune of Payload Commander David Low.

6/28/93            "Catch a Falling Star" by Perry Como.

7/1/93              "I'll Be Home For Christmas"  
*The mission was extended twice to wait for acceptable landing weather in Florida. On July 1st if the weather was acceptable it would land in Florida, otherwise it would be sent to California. So it wasn't a question of whether they would land that day but where. Of course after that many delays the crew may have wondered when they would finally make it home... Capcom Susan Helms played "I'll Be Home For Christmas". Given that it was July 1st they presumably did make it home in time. PC*

**STS-51**            September 12-22, 1993

9/13/93            "Please Release Me" by Elvis Presley. In preparation for deployment of ORFEUS-SPAS payload. *The singer was actually well known Elvis impersonator Carl Walz on his maiden spaceflight. He had the unusual distinction of hearing his own voice singing for his first wakeup in space. PC*

9/14/93            "Changes in Attitudes, Changes in Latitudes" by Jimmy Buffett

9/15/93            "Don't Let the Stars Get in Your Eyes" by Perry Como

9/16/93            "Walk, Don't Run"

9/17/93            Videotape views of Earth with "Theme for the Common Man" by crew beat Mission Control's wakeup call. *Of course the videotape views of the Earth are just on the flight day highlights. On the shuttle they just hear the music. PC*

9/18/93            Crew played "A Whole New World" for Mission Control followed by "Star Wars Theme" sent to Discovery.

9/19/93            "Rendezvous" by Hudson Brothers

9/20/93            "Heartbreak Hotel" by astronaut band Max-Q.

9/21/93            "Surfin' Safari" by The Beach Boys



**STS-58**            October 18-November 1, 1993

10/19/93            No music, just greeting, "Good morning, how are you?" from Linda Ham, Flight Director.

10/20/93            "Theme From the Movie 2001, a Space Odyssey"

10/21/93            No wakeup call sent.

10/22/93            "Jump In the Line" by Harry Belafonte; and "Doctor! Doctor!" by Thompson Twins.

10/23/93            "I Know You're Out There, Somewhere" by The Moody Blues

10/24/93            "Back Home in Indiana" by Jim Nabors for Mission Specialist David Wolf, who hails from Indianapolis.

10/25/93            "Shiny Happy People" by R.E.M.

10/26/93            "Happy Trails" by Roy Rogers

10/27/93            "Look At Us Now" by Joe Walsh

10/28/93            No wakeup call sent.

10/29/93            "From A Distance" by Bette Midler

10/30/93            Theme from "St.Elsewhere" by Mike Post

10/31/93            "Monster Mash" by Bobby "Boris" Pickett

**STS-61**            December 2-13, 1993

12/2/93            "Cosmos" by Frank Hayes (6:57 p.m.)

12/3/93            "Get Ready" by Rare Earth

12/4/93            "Fanfare for the Common Man" by Aaron Copland

12/5/93            "With a Little Help From My Friends" by The Beatles

12/6/93            "Doctor My Eyes" by Jackson Browne

12/7/93            "I Can See Clearly Now" by Johnny Nash

12/8/93            A traditional Swiss Alpine song chosen by Mission Specialist Claude Nicollier

12/9/93            "A Hard Day's Night" by The Beatles

12/10/93            "Mamas Don't Let Your Babies Grow Up to Be Cowboys" by Willie Nelson

12/11/93            "My Heroes Have Always Been Cowboys" by Willie Nelson

12/12/93            "I Can See For Miles" by The Who

**STS-60**            February 3-11, 1994

2/4/94            "Early Morning Riser" by Pure Prairie League

2/5/94            "Rawhide" sung by the STS-60 simulation and training team

2/6/94            "The Bug" by Mary Chapin Carpenter

2/7/94            "Let There Be Peace on Earth" sung by the fourth graders of the Armand Bayou Elementary School in Clear Lake. One of the singers was Emily Reightler, the daughter of shuttle pilot Ken Reightler. She was celebrating her tenth birthday.

2/8/94            "Sweet Home Alabama" by Lynyrd Skynyrd in honor of astronaut Jan Davis of Huntsville.

2/9/94            Russian folk tunes in honor of Mission Specialist Sergei Krikalev, the first Russian cosmonaut to fly aboard a U.S. spacecraft.

2/10/94            "I Get Around" by The Beach Boys.

2/11/94            "Homeward Bound" by Simon and Garfunkel.

**STS-62**            March 4-18, 1994

3/5/94            "I Got You (I Feel Good)" by James Brown

3/6/94            "Picky, Picky Head" by Wailing Souls from movie, "Cool Runnings".  
*A favorite movie of John Casper's children.* PC

3/7/94            Medley of Armed Forces anthems sung by the U.S. Military Glee Club: The Air Force Song ("Off We Go Into the Wild Blue Yonder"), "Anchors Aweigh", U.S. Army Anthem, "The Caissons Go Rolling Along" and The Marine Corps Hymn "Halls of Montezuma". *The five person crew included Air Force -- Casper, Marine -- Allen, Army -- Gemar, Navy -- Thuot, and civilian Ivins. This is the first time all of the major Armed Forces were represented on once space mission, hence the medley.* PC

3/8/94            "Space Shuttle Boogie" written by Cindy and Michael Rosenbaum

3/9/94            "Wake the World" by The Beach Boys

3/10/94           Marine Corps Hymn "Halls of Montezuma"

3/11/94           "Takin' Care of Business" by Bachman-Turner Overdrive.

3/12/94           "Be Our Guest" from movie "Beauty and the Beast" soundtrack.

3/13/94           Crew with ½ day off beat MCC to wakeup call. They sent down "Surfin' USA" by The Beach Boys. MCC responded with "I Get Around" by The Beach Boys.

3/14/94           "Starship Trooper" by Yes.

3/15/94           "View From Above" written and performed by Allison Brown, who was inspired to write the song by Mission Specialist Marsha Ivins.

3/16/94           "Travelin' Prayer" by Billy Joel.

3/17/94           "Living in Paradise" by Brothers Cazimero

3/18/94           "The Mermaid" by The Clancy Brothers.

**STS-59**            April 9-20, 1994

The crew worked two shifts around the clock. Due to the 24 hour coverage, only one wakeup call was sent.

4/18/94            **Blue Team:** "Freedom" performed by the White Elementary School 5<sup>th</sup> grade choir. Mission Specialist Rich Clifford's son, Brandon, was a student at White.

**STS-65**            July 8-23, 1994

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

**STS-64**            September 9-20, 1994

*The high number of Max Q songs was in honor of mission specialist Susan Helms, a keyboardist for the all-astronaut band.* PC

9/10/94           Parody of The Beach Boys song "Fun, Fun, Fun" called "We'll Have Fun, Fun, Fun on the Shuttle," sung by Max Q (from Mach 25 tape).

9/11/94           Parody of the song "My Girl" called "My World" by Max Q (from Mach 25 tape).

9/12/94           "Ace in the Hole" by George Strait.

9/13/94           Parody of The Beach Boys song "I Get Around" called "We Orbit Around" by Max Q (from Mach 25 tape).

9/14/94           Parody of the "Green Acres" TV theme by Max Q (from Mach 25 tape) called "On Orbit".

9/15/94           "Hound Dog" by Elvis Presley

9/16/95           "EVA" Surfing" by Max Q (from Mach 25 tape).

9/17/95           "Another Saturday Night" by Max Q (from Mach 25 tape).

9/18/94           "This Is the Time" by Billy Joel.

9/19/94           "Yakety Yak" by The Coasters.

9/20/94           Sounds of chirping birds and a crowing rooster and a medley of cartoon theme songs including Woody Woodpecker.

**STS-68**            September 30-October 11, 1994

The crew worked two shifts around the clock but Mission Control did include one wakeup call.

10/11/94 "Tiny Bubbles" *There was a problem with the galley water system putting bubbles into the crew's drinking water. So Capcom Bill McArthur sent the song to the Blue shift.* PC

**STS-66** November 3-14, 1994  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent. (*JSC Query Book*).

**STS-63** February 3-11, 1995  
*The high number of Max Q songs was in honor of commander Jim Wetherbee, the drummer for the band.* PC

2/4/95 "On Orbit is the Place to Be" by Max Q (from Mach 25 tape).  
2/5/95 "Another Saturday Night" by Max Q (from Mach 25 tape).  
2/6/95 "Make New Friends" From a Girl Scout Brownie troop (the daughter of the people who send flowers to MCC each mission is in the troop)  
2/7/95 "Blue Danube Waltz" from soundtrack of "2001, A Space Odyssey"  
2/8/95 Opening sequence of "Time" from Pink Floyd's album, "Dark Side of the Moon"  
2/9/95 "Surfing EVA" by Max Q (from Mach 25 tape).  
2/10/95 "Liberty Bell March" better known as the theme from the TV show, "Monty Python's Flying Circus."  
2/11/95 "The End" by The Doors.

**STS-67** March 2-18, 1995  
The crew worked two shifts around the clock. Therefore, no wakeup calls were sent. (*JSC Query Book*).

**STS-71** June 27-July 7, 1995  
6/28/95 "I Got You Babe" by Sonny and Cher.  
6/29/95 "From a Distance" by Nancy Griffith. It was preceded by special birthday greetings to Pilot Charlie Precourt from his wife and daughters.  
6/30/95 "Your Wildest Dreams" by The Moody Blues.  
7/1/95 Russian pop song "Kuca, Kuca, Kuca" (pronounced Keesa Keesa Keesa)  
7/2/95 "Changes in Latitudes, Changes in Attitudes" by Jimmy Buffett  
7/3/95 The Florida State Seminole Fight Song "...in honor of former Seminole Norm Thagard...celebrating his 52<sup>nd</sup> birthday today".  
7/4/95 "America the Beautiful" by Whitney Houston was sent to wakeup Atlantis' crew just before the undocking with the Mir space station.  
7/5/95 "Flying solo and ahead of the Mir space station by about 120 nautical miles, the crew on board Atlantis awoke to a children's song, 'I Love My Moon,' a special dedication to Commander Hoot Gibson from his 26-day old daughter Emilee Louise." *Query Book* has singer as Tonja Weimer.  
7/6/95 Parodies of the Beatles' "Hello, Goodbye" and Paul Anka's "Lay Your Head on My Shoulder".  
7/7/95 "Take the Long Way Home" by Supertramp.

- STS-70** July 13-22, 1995
- 7/14/95 “The crew of STS-70 was awakened shortly after three this morning Central time to the theme from ‘Woody Woodpecker,’ a cartoon character adopted as the mascot for the mission when real woodpeckers plucked holes in protective insulation on Discovery’s external fuel tank last month causing a delay in the mission.” *MCC Status Report*
- 7/15/95 “The workday began shortly after two o’clock this morning with a wakeup call from Kate Smith singing ‘Beautiful Ohio’ in honor of four of the five crewmembers being from that state.” *MCC Status Report*
- 7/16/95 “The crew was awakened at 1:11 a.m. CDT to the sounds of Mission Specialist Nancy Currie’s 8-year-old daughter, Stephanie, and her Ferguson Elementary School second-grade classmates singing ‘God Bless the USA.’ ” *MCC Status Report. JSC Query Book* has song as “God Bless America.”
- 7/17/95 Fight song for the Cleveland Indians, “Talkin’ Tribe.” “Mission Specialist Mary Ellen Weber responded with ‘Good mornin’ Houston, how ‘bout then Indians?’” *MCC Status Report*
- 7/18/95 “Beer Barrel Polka” by Gene Hackemack – because Cleveland is the polka capital of the world. Mission Control sent the theme from the movie “Starman” as a good night call.
- 7/19/95 Unknown.
- 7/20/95 “Eyes of Texas”, a UT song. Randy Stone switched from an Aggie song to a UT song.
- STS-69** September 7-18, 1995 (Dog Crew II)
- 9/8/95 “Hound Dog” by Elvis Presley.
- 9/9/95 Theme from “Scooby Doo.”
- 9/10/95 “Bingo” sung by Madeline Cockrell’s (Pilot Kenneth Cockrell’s five-year-old daughter) kindergarten class.
- 9/11/95 Theme from “Rin Tin Tin”.
- 9/12/95 “A Hard Day’s Night” by The Beatles.
- 9/13/95 Theme from the film “Patton”, a tribute to Jim Voss who was promoted to the rank of Colonel in the U.S. Army.
- 9/14/95 Theme from cartoon TV show, “Underdog”, attribute to Mike Gernhardt who has the same nickname.
- 9/15/95 “He’s A Tramp” from the cartoon movie “Lady and the Tramp”.
- 9/16/95 “Walk Like a Man” by Frankie Valli and The Four Seasons.
- 9/17/95 “Snoopy’s Theme” from animated cartoon TV show, “Peanuts.”
- STS-73** October 20-November 5, 1995
- The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-74** November 12-20, 1995
- 11/13/95 “Dance of the Flowers” by Tchaikovsky. Referring to orbital ballet Atlantis will perform to dock with Mir.
- 11/14/95 “Yeager’s Triumph” from “The Right Stuff” by Bill Conti.
- 11/15/95 “Somewhere Over the Rainbow” by Arlen, Harburg, and Stothart from the film, “The Wizard of Oz”. Sung by Judy Garland.
- 11/16/95 “Blue Danube” by Johann Strauss.
- 11/17/95 “Northwest Passage” by Stan Rogers.
- 11/18/95 “Do Wah Diddy Diddy” performed as as a drill team chant cadence.
- 11/19/95 Theme from the IMAX film, “The Dream is Alive.”

- STS-72**            January 11-20, 1996
- 1/12/96            Theme from “Star Wars” by John Williams.
  - 1/13/96            “Sea in Springtime” (traditional Japanese song) for Koichi Wakata and SFU retrieval.
  - 1/14/96            Theme from the original “Godzilla” film.
  - 1/15/96            “Star Trek Next Generation” theme by James Horner.
  - 1/16/96            “Smallest Astronaut” by The Royal Guardsmen.
  - 1/17/96            “Heigh-Ho, Heigh-Ho, It’s Off To Work We Go” from movie “Snow White.”
  - 1/18/96            “All I Wanna Do” by Sheryl Crow.
  - 1/19/96            “Darth Vader’s Theme” from “Star Wars” film.
  - 1/20/96            Theme from the IMAX film, “The Dream is Alive.”
- STS-75**            February 22-March 9, 1996
- The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.
- STS-76**            March 22-31, 1996
- 3/23/96            “Anywhere is…” by Enya for Rick Searfoss.
  - 3/24/96            “When the Roll is Called Up Yonder” referring to Shannon Lucid’s arrival the next day.
  - 3/25/96            “Awake, the Harp” by Haydn, recorded by the Houston Choral Society for Mission Specialist Ron Sega.
  - 3/26/96            “Another Saturday Night” by Max Q
  - 3/27/96            “Free Flying” written by Brandon and Richard Clifford for father Michael Clifford’s spacewalk that day.
  - 3/28/96            “Jumpin’ at the Woodside” by Brass, Rhythm and Reed.
  - 3/29/96            “Stars and Stripes Forever” by John Philip Sousa.
- STS-77**            May 19-29, 1996
- 5/20/96            The Air Force Song (“Off We Go Into the Wild Blue Yonder”) in honor of Commander John H. Casper, an Air Force Colonel, and pilot Curtis L. Brown, an Air Force Lieutenant Colonel.
  - 5/21/96            “Up, Up and Away” by The Fifth Dimension in honor of the Inflatable Antenna Experiment conducted yesterday as part of the Spartan mission.
  - 5/22/96            “Anchors Aweigh”
  - 5/23/96            “Milky Way”, a children’s song provided by Casper’s wife, Chris.
  - 5/24/96            “Hold Me, Thrill Me, Kiss Me” by Gloria Estefan requested by Curt Brown’s fiancée.
  - 5/25/96            “Down Under” by Men At Work, in honor of Australian-born Mission Specialist Andy Thomas
  - 5/26/96            “Up Down, and Touch the Ground” Tigger and his friends from “Winnie the Pooh” sing-a-long
  - 5/27/96            “Light My Fire” by The Doors. (Pre-sleep music: “Good Night Sweetheart” by The Spaniels.
  - 5/28/96            “Start Me Up” by The Rolling Stones
  - 5/29/96            “I Can See Clearly Now” by Jimmy Cliff

**STS-78**

June 20-July 7, 1996

- 6/21/96 "Free Fallin'" by Tom Petty.  
CAPCOM: Kay Hire
- 6/22/96 "Bad to the Bone" by George Thorogood & the Destroyers referring to musculoskeletal science experiments.  
CAPCOM: Kay Hire
- 6/23/96 "Flight of the Bumblebee" performed by the 1980 U.S. Air Force Academy Drum and Bugle Corps. Payload commander Susan Helms played xylophone on the recording.  
CAPCOM: Kay Hire
- 6/24/96 "Space Oddity" by David Bowie. The "Major Tom" reference is to Tom Henricks.  
CAPCOM: Kay Hire
- 6/25/96 "She Blinded Me With Science" by Thomas Dolby  
CAPCOM: Kay Hire
- 6/26/96 "Back on the Chain Gang" by The Pretenders. The crew went back to work after a day off.  
CAPCOM: Bill McArthur
- 6/27/96 "Every Breath You Take" by The Police. Refers to lung function experiment.  
CAPCOM: Bill McArthur
- 6/28/96 "Carolina in My Mind" by James Taylor. Charles Brady considers Robbins, NC his home.  
CAPCOM: Bill McArthur
- 6/29/96 "Another Saturday Night" by Max Q, the all-astronaut band, with Susan Helms on keyboards  
CAPCOM: Bill McArthur
- 6/30/96 "Les Murs De Poussiere (Dusty Walls)" by Francis Cabrel for Favier.  
CAPCOM: Bill McArthur
- 7/1/96 "O, Canada" the Canadian National Anthem for Brent Thirsk  
CAPCOM: Bill McArthur
- 7/2/96 "Closer to Free" by The BoDeans for Linnehan.  
CAPCOM: Bill Gregory
- 7/3/96 "Wake Up Little Susie" by The Everly Brothers for Helms.  
CAPCOM: Bill Gregory
- 7/4/96 "God Bless the U.S.A." by Lee Greenwood; "Born in the USA" by Bruce Springsteen for the 4<sup>th</sup> of July.  
CAPCOM: Blaine Hammond
- 7/5/96 "Birthday" by The Beatles for Henricks 44<sup>th</sup> birthday.  
CAPCOM: Blaine Hammond
- 7/6/96 "Don't Bring Me Down" by The Electric Light Orchestra  
CAPCOM: Blaine Hammond
- 7/7/96 "Time For Me to Fly" by REO Speedwagon.

**STS-79**            September 16-26, 1996

9/16/96            "Duke of Earl" by Gene Chandler.  
*"Song was up linked in honor of Carl Walz's 20th anniversary. The song is one he performed for his wife, Pam, before they were married while he was a member of an Ohio band called "The Blue Moons". This is the second time Walz has spent his anniversary in orbit."*

9/17/96            CAPCOM: Kay Hire  
 "Rescue Me" by Fontella Bass.  
*"Capcom Kay Hire called the wakeup music "a message from Shannon," referring to U.S. astronaut Dr. Shannon Lucid who has spent approximately six months aboard Mir."*

9/18/96            CAPCOM: Kay Hire  
 "Hold On (I'm Coming)" performed by Sam and Dave referring to the return of Shannon Lucid.

9/19/96            "Whole Lotta Shakin' Goin' On" by Jerry Lee Lewis referring to the ARIS experiment. *ARIS = Active Rack Isolation System, a set of sensors and actuators which dampen out vibrations for ultra-sensitive microgravity experiments.* PC

9/20/96            "Cheeseburger in Paradise" by Jimmy Buffett referring to Shannon Lucid's thoughts of her diet after returning to Earth.

9/21/96            "Another Saturday Night" By Max Q. Carl Walz is a member.

9/22/96            "Got Me Under Pressure" by ZZ Top referring to the raising of cabin pressure to 15.5 psi to transfer oxygen and nitrogen to Mir.

9/23/96            "Please Don't Leave Me" by Fats Domino. Some music for undocking day

9/24/96            "Only Wanna Be With You" by Hootie and the Blowfish referring to the impending return of Lucid to her family.

9/25/96            "Danger Zone" by Kenny Loggins. Played in honor of the two Navy crewmen on board, Bill Readdy and Terrence Wilcutt. *Wilcutt's a Marine, not Navy. (The Navy trains the Marine pilots so it's still a valid connection.)*  
 PC

**STS-80** November 19-December 7, 1996

11/20/96 "I Can See For Miles" by The Who  
CAPCOM: Bill McArthur

11/21/96 "Theme From Fireball XL5"  
CAPCOM: Bill McArthur

11/22/96 "Roll With the Changes" by REO Speedwagon; Some Phil Collins/Genesis  
CAPCOM: Bill McArthur

11/23/96 "Reelin' and Rockin'" by Chuck Berry  
CAPCOM: Bill McArthur

11/24/96 "Roll With It" by Steve Winwood  
CAPCOM: Bill McArthur

11/25/96 "Good Times Roll" by The Cars  
CAPCOM: Bill McArthur

11/26/96 "Red Rubber Ball" by Cyrkle  
CAPCOM: Chris Hadfield

11/27/96 "Alice's Restaurant" by Arlo Guthrie  
CAPCOM: Dom Gorie

11/28/96 "Some Guys Have All the Luck" by Robert Palmer  
CAPCOM: Dom Gorie

11/29/96 "Changes" by David Bowie  
CAPCOM: Dom Gorie

11/30/96 "Break On Through" by The Doors  
CAPCOM: Dom Gorie

12/1/96 "Shooting Star" by Bad Company  
CAPCOM: Dom Gorie

12/2/96 "Stay" by Jackson Browne  
CAPCOM: Marc Garneau

12/3/96 "Return to Sender" by Elvis Presley  
CAPCOM: Marc Garneau

12/4/96 "Should I Stay or Should I Go" by The Clash  
CAPCOM: Marc Garneau

12/5/96 "Nobody Does It Better" by Carly Simon  
CAPCOM: Marc Garneau

12/6/96 "Please Come Home For Christmas" by Sawyer Brown  
CAPCOM: Marc Garneau

**STS-81** January 12-22, 1997

1/13/97 "Free Ride" by The Edgar Winter Group  
CAPCOM: Kay Hire

1/14/97 "It Keeps You Runnin' " by The Doobie Brothers  
CAPCOM: Kay Hire

1/15/97 "Hitchin' a Ride" by Vanity Fare  
CAPCOM: Kay Hire

1/16/97 "Celebration" by Kool and the Gang  
CAPCOM: Kay Hire

1/17/97 "I Got You (I Feel Good)" by James Brown  
CAPCOM: Kay Hire

1/18/97 "Mack the Knife" by Bobby Darin

1/19/97 "Ticket to Ride" by The Beatles (1:27 GMT)

1/19/97 "So Long, Farewell" from "The Sound of Music" (23:27 GMT)

1/21/97 "My Favorite Marcia" by The Allison Brown Quartet

1/22/97 "Day-O, The Banana Boat Song" - Harry Belafonte

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-81/wakeup.html>



**STS-82** February 11-21, 1997

2/12/97 "Magic Carpet Ride" by Steppenwolf  
CAPCOM: Chris Hadfield

2/13/97 "These Are Days" by 10,000 Maniacs  
CAPCOM: Chris Hadfield

2/14/97 "Two Princes" by Spin Doctors  
CAPCOM: Chris Hadfield

2/15/97 "Higher Love" by Steve Winwood  
CAPCOM: Chris Hadfield

2/16/97 "The Packerena" For Mark Lee  
CAPCOM: Chris Hadfield

2/17/97 "Shiny Happy People" by R.E.M.  
CAPCOM: Chris Hadfield

2/18/97 "Dreams" by The Cranberries  
CAPCOM: Chris Hadfield

2/19/97 "That Thing You Do!" Theme from the motion picture  
CAPCOM: Chris Hadfield

2/20/97 "Five Hundred Miles Away From Home" by Reba McEntire  
CAPCOM: Chris Hadfield

2/21/97 "Sloop John B." by The Beach Boys (down linked by crew)  
"Born to Be Wild" by Steppenwolf  
CAPCOM: Chris Hadfield

**STS-83** April 4-8, 1997

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

**STS-84** May 15-24, 1997

*This particular mission set a record for the number of different countries where people were born, Precourt, Collins, and Lu in the United States, Kondakova in Russia, Clervoy in France (representing ESA), and Foale in England and Noreiga in Peru. Of course, Foale and Noriega are both naturalized U.S. citizens and didn't represent their birth countries. Hence the large number of national anthems. PC*

5/16/97 "Those Magnificent Men in Their Flying Machines" by The American Military Band  
CAPCOM: Bill McArthur

5/17/97 "Hold On, I'm Coming" by Sam and Dave  
CAPCOM: Bill McArthur

5/18/97 "British National Anthem – God Save the Queen"  
CAPCOM: Bill McArthur

5/19/97 "French National Anthem - La Marseillaise"  
CAPCOM: Bill McArthur

5/20/97 "Peruvian National Anthem"  
CAPCOM: Bill McArthur

5/21/97 "Russian National Anthem"  
CAPCOM: Bill McArthur

5/22/97 "Triste et Bleu (Sad and Blue)" - Michel Jonasz  
CAPCOM: Bill McArthur

5/23/97 "Anchors Aweigh/ The Air Force Song ("Off We Go Into the Wild Blue Yonder") USAF  
Theme/Marine Hymn" by The West Point Cadet Glee Club  
CAPCOM: Bill McArthur

5/24/97 "U.S. National Anthem"  
CAPCOM: Bill McArthur

**STS-94** July 1-17, 1997

The crew worked two shifts around the clock. Therefore, no wakeup calls were sent.

**STS-85** August 7-19, 1997

8/8/97 "To the Moon and Back" by Savage Garden  
CAPCOM: Bill McArthur

8/9/97 "Don't Look Down" by Lindsay Buckingham  
CAPCOM: Bill McArthur

8/10/97 "My Home's In Alabama" by Alabama  
CAPCOM: Bill McArthur

8/11/97 "Chances Are" by Johnny Mathis  
CAPCOM: Bill McArthur

8/12/97 "The House is Rockin'" by Stevie Ray Vaughn  
CAPCOM: Marc Garneau

8/13/97 "Good Vibrations" by The Beach Boys  
CAPCOM: Marc Garneau

8/14/97 "You Will Go to the Moon" by Moxy Fruvous  
CAPCOM: Marc Garneau

8/15/97 "Stay" by Jackson Browne  
CAPCOM: Marc Garneau

8/16/97 "Mighty Iron Arm Atom" or "Atom Boy" Theme song to Japanese cartoon.  
*There was no Japanese crewmember on this mission, but one of the experiments was a Japanese robot arm, a prototype for the ISS's Japanese Experiment Module, hence this very appropriate music.* PC  
CAPCOM: Marc Garneau

8/17/97 "You're Not From Texas" by Lyle Lovett  
CAPCOM: Marc Garneau

8/18/97 "So Far Away" by Dire Straits  
CAPCOM: Marc Garneau

8/19/97 "Running On Empty" by Jackson Browne  
CAPCOM: Marc Garneau

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-85/wakeup.html>

**STS-86** September 25-October 6, 1997

9/26/97 "Roll on Down the Highway" by Bachman-Turner Overdrive  
CAPCOM: Chris Hadfield

9/27/97 "Dancing in the Dark" by Bruce Springsteen  
CAPCOM: Chris Hadfield

9/28/97 "Takin' Care of Business" by Bachman-Turner Overdrive  
CAPCOM: Chris Hadfield

9/29/97 "What I Like About You" by The Romantics  
CAPCOM: Chris Hadfield

9/30/97 "Grand Ol' Flag" as played on the piano by Wetherbee's daughter Jenny  
Wetherbee  
CAPCOM: Chris Hadfield

10/1/97 "What a Wonderful World" by Louis Armstrong  
CAPCOM: Chris Hadfield

10/2/97 "Impression That I Get" by The Mighty Mighty Bosstones  
CAPCOM: Chris Hadfield

10/3/97 "Fanfare For the Common Man" by The Orlando Pops  
CAPCOM: Chris Hadfield

10/4/97 "Let It Ride" by Bachman-Turner Overdrive  
CAPCOM: Chris Hadfield

10/5/97 "Shake, Rattle and Roll" by Huey Lewis and the News  
CAPCOM: Chris Hadfield

10/6/97 "Homeward Bound" by Simon and Garfunkel

**STS-87**            November 19-December 5, 1997

- 11/20/97            “Hitchin’ a Ride” by Vanity Fare  
                         CAPCOM: Bill McArthur
- 11/21/97            “Theme from New York, New York” by Frank Sinatra  
                         CAPCOM: Bill McArthur
- 11/22/97            “Ginga Shounen Tai” (Galaxy Boys) Theme from a Japanese science fiction puppet show  
                         CAPCOM: Bill McArthur
- 11/23/97            The Air Force Song (“Off We Go Into the Wild Blue Yonder”) by Air Force Academy Cadet Chorus  
                         CAPCOM: Bill McArthur
- 11/24/97            “Walk of Life” by Dire Straits  
                         CAPCOM: Ellen Ochoa
- 11/25/97            “Mishra Piloo” by Ravi Shankar  
                         CAPCOM: Ellen Ochoa
- 11/26/97            “Ukrainian National Anthem”  
                         CAPCOM: Ellen Ochoa
- 11/27/97            “America the Beautiful” by the U.S. Air Force Academy Cadet Chorale  
                         CAPCOM: Ellen Ochoa
- 11/28/97            “Florida State University Seminoles Fight Song”  
                         CAPCOM: Bill McArthur
- 11/29/97            “California Dreamin’ ” by The Mamas and the Papas  
                         CAPCOM: Chris Hadfield
- 11/30/97            “This Island Earth” by The Nylons  
                         CAPCOM: Chris Hadfield
- 12/1/97             “Ultraman” Theme from Japanese TV science fiction cartoon show  
                         CAPCOM: Chris Hadfield
- 12/2/97             “Centerfield” by John Fogerty  
                         CAPCOM: Chris Hadfield
- 12/3/97             “Flight of the Bumble Bee” Rimsky-Korsakov  
                         CAPCOM: Marc Garneau
- 12/4/97             “Should I Stay or Should I Go” by The Clash  
                         CAPCOM: Marc Garneau
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-87/wakeup.html>

**STS-89**            January 22-31, 1998

1/23/98 "It's Not Unusual" by Tom Jones  
CAPCOM: Marc Garneau

1/24/98 "Calypso" by John Denver  
CAPCOM: Marc Garneau

1/25/98 "Friends, We Are Migrant Birds" An old Russian pilots' song  
CAPCOM: Marc Garneau

1/26/98 "Singer From Down Under" by Slim Dusty  
CAPCOM: Marc Garneau

1/27/98 "Clap For the Wolfman" by Burton Cummings in honor of astronaut David Wolf who joined the crew after 120 days aboard Mir.  
CAPCOM: Marc Garneau

1/28/98 "Hide Away" by Stanley Clarke. *For Mike Anderson* PC  
CAPCOM: Marc Garneau

1/29/98 "Here We Go Loopty-Loo" ("Lupe de Lue") by Little Richard and The Disney Kids  
CAPCOM: Marc Garneau

1/30/98 "Bad To the Bone" by George Thorogood and the Destroyers  
CAPCOM: Marc Garneau

1/31/98 "Breakfast Blues" by Trout Fishing in America  
CAPCOM: Marc Garneau

**STS-90** April 17-May 3, 1998

4/18/98 "Think" by Aretha Franklin  
CAPCOM: Chris Hadfield

4/19/98 "Take Me Out to the Ball Game" sung by Harry Carey  
CAPCOM: Chris Hadfield

4/20/98 "Doctor My Eyes" by Jackson Browne  
CAPCOM: Chris Hadfield

4/21/98 "Bad To the Bone" by George Thorogood and the Destroyers  
CAPCOM: Chris Hadfield

4/22/98 "Bad Case of Loving You" by Robert Palmer  
CAPCOM: Chris Hadfield

4/23/98 "I Got You (I Feel Good)" by James Brown  
CAPCOM: Chris Hadfield

4/23/98 "This Land Is Your Land" by Rod Taylor  
CAPCOM: Bill McArthur

4/24/98 "She Drives Me Crazy" by The Fine Young Cannibals  
CAPCOM: Bill McArthur

4/25/98 "Every Breath You Take" by The Police  
CAPCOM: Bill McArthur

4/26/98 "Fight On, State" Fight Song for Penn State University  
CAPCOM: Bill McArthur

4/27/98 "Turn, Turn, Turn" by The Byrds  
CAPCOM: Bill McArthur

4/28/98 "Take a Chance on Me" by Abba  
CAPCOM: Bill McArthur

4/29/98 "Round and Round" by Ratt  
CAPCOM: Bill McArthur

4/30/98 "Cruise Control" by Bruce Hornsby  
CAPCOM: Bill McArthur

5/1/98 "If I Only Had a Brain" from "The Wizard of Oz"  
CAPCOM: Bob Curbeam

5/2/98 "Stir It Up" by Bob Marley and the Wailers  
CAPCOM: Bob Curbeam

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-90/wakeup.html>

**STS-91** June 2-12, 1998

6/3/98 "Shake, Rattle, and Roll" by Huey Lewis and the News in honor of the flawless liftoff  
CAPCOM: Marc Garneau

6/4/98 "Come Go With Me" by the Del Vikings in honor of Andrew Thomas' return from Mir  
CAPCOM: Marc Garneau

6/5/98 "South Australia" by The Sundowners  
CAPCOM: Chris Hadfield

6/6/98 "You Really Got Me" by The Kinks  
CAPCOM: Chris Hadfield

6/7/98 "Travelin' Band" by Creedence Clearwater Revival  
CAPCOM: Chris Hadfield

6/8/98 "Manic Monday" by The Bangles in honor of an historic Monday for the U.S. and Russian  
space programs ending the three year Shuttle/Mir program  
CAPCOM: Chris Hadfield

6/9/98 "How Bizarre" by O.M.C  
CAPCOM: Chris Hadfield

6/10/98 "Superman" - TV Theme Song played in honor of Franklin Chang-Diaz's record-breaking  
time in orbit aboard a Space Shuttle, a total of more than 51 days spent in orbit during six  
shuttle flights.  
CAPCOM: Chris Hadfield

6/11/98 "Interplanet Janet" Song from the "Schoolhouse Rock" educational videotape series played in  
honor of Janet Kavandi  
CAPCOM: Chris Hadfield

6/12/98 "Homeward Bound" by Simon and Garfunkel  
CAPCOM: Chris Hadfield

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-91/wakeup.html>

**STS-95** October 29-November 7, 1998

10/30/98 "What a Wonderful World" Louis Armstrong. Played for Mission Specialist  
Scott Parazynski from his wife, Gail.  
CAPCOM: Mike Gernhardt

10/31/98 "Cachito" Nat King Cole. This song about parenthood was directed to  
Pedro Duque and his wife, Consuelo, who recently has a baby.  
CAPCOM: Mike Gernhardt

11/1/98 "This Pretty Planet" Tom Chapin requested by pilot Steve Lindsay's wife  
Diane And/or "Hallelujahs" by Chris Rice.  
CAPCOM: Mike Gernhardt

11/2/98 "Moon River" Andy Williams. Annie Glenn requested it as a tribute to the  
friendship between Williams and her husband.  
CAPCOM: Chris Hadfield

11/3/98 "The House is Rockin'" Stevie Ray Vaughn. In honor of Mission Specialist  
Steve Robinson known as "Stevie Ray Robinson" by other members of his  
astronaut band, "Max Q"  
CAPCOM: Chris Hadfield

11/4/98 "Wakaki Chi," ("Young Spirit") a cheering song from Keio University  
where Payload Specialist Chiaki Mukai received her medical degree.  
CAPCOM: Chris Hadfield

11/5/98 "I Know You're Out There Somewhere" The Moody Blues. Chosen by  
Commander Curt Brown's family.  
CAPCOM: Scott Horowitz

11/6/98 "Voyage Into Space", an original composition written for John Glenn by  
composer and pianist Peter Nero, a long-time friend of the Glenns.  
CAPCOM: Scott Horowitz

11/7/98 "La Cucaracha". Played for Pedro Duque at request of his wife, Consuelo.  
CAPCOM: Scott Horowitz

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-95/html/ndexpage.html>

**STS-88**

December 4-15, 1998

- 12/4/98 "Get Ready" by the Temptations, an appropriate description of the full slate of activities the crew will be involved with as they get ready for the important events of the flight by checking out the equipment and tools that will be utilized during rendezvous, docking and space walking activities.  
CAPCOM: Chris Hadfield
- 12/5/98 "Anchors Aweigh"  
CAPCOM: Chris Hadfield
- 12/6/98 "Somewhere Over the Rainbow" - Judy Garland. Requested by Bob Cabana's daughter, Judy  
CAPCOM: Bob Curbeam
- 12/7/98 "Jerry the Rigger," an old Celtic song. In honor of Mission Specialist Jerry Ross, who with fellow Mission Specialist Jim Newman, will conduct more than 18 hours of space walks during this flight.  
CAPCOM: Bob Curbeam
- 12/8/98 "Streets of Bakersfield" - Dwight Yoakum. Requested by the wife of Pilot Rick Sturckow, a California native.  
CAPCOM: Janet Kavandi
- 12/9/98 "Floating in the Bathtub" selected for Mission Specialist Jim Newman by his wife, Mary Lee.  
CAPCOM: Jim Newman
- 12/10/98 "God Bless the USA"- Lee Greenwood. Played for Mission Specialist -2, Nancy Currie at the request of her husband, David.  
CAPCOM: Bob Curbeam
- 12/11/98 "Trepak" a Russian dance from Tchaikovsky's "The Nutcracker" in honor of cosmonaut and Mission Specialist Sergei Krikalev.  
CAPCOM: Bob Curbeam
- 12/12/98 "Hound Dog" - Elvis Presley  
CAPCOM: Bob Curbeam
- 12/13/98 "Goodnight Sweetheart, Goodnight" - The Spaniels. As the crew prepare to say "goodnight" to the space station.  
CAPCOM: Bob Curbeam
- 12/14/98 "I Got You (I Feel Good)" - James Brown. In honor of the good feelings evoked by this successful first International Space Station Assembly mission.  
CAPCOM: Bob Curbeam
- 12/15/98 "Ride of the Valkyries" - Richard Wagner  
CAPCOM: Bob Curbeam
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-88/html/ndexpage.html>

**STS-96**

May 27-June 6, 1999

5/27/99 "California Dreamin'" – Mamas and the Papas -- played for Mission Specialist Tammy Jernigan

5/28/99 "Danger Zone" – Kenny Loggins played in honor of Commander Kent Rominger, an alumnus of the Naval Fighter Weapons School of "Top Gun" fame

5/29/99 Themes from "Star Wars" by the Space Center Intermediate Band. Mission Specialist Dan Barry's daughter Jenny plays flute in that band.

5/30/99 "Morning Colors" – U.S. Coast Guard Band or "Morning Call" by USMC Band.

5/31/99 "Amarillo by Morning" by George Strait. Played in honor of Pilot Rick Husband, who is from Amarillo, Texas.

6/1/99 "Exultate Jubilate" by Mozart. This is a favorite of Canadian Space Agency astronaut Julie Payette.

6/2/99 "Vasha Blagarodye", a Russian song, followed by "The Charleston". Played for cosmonaut Valery Tokarev and Mission Specialist Ellen Ochoa.

6/3/99 "Free Bird" by Lynyrd Skynyrd in anticipation of the Discovery's departure from the ISS.

6/4/99 "Good Morning Starshine" in recognition of the deployment of the Starshine satellite.

6/5/99 "The Longest Day" – Theme from the movie to commemorate what spacecraft communicator in Mission Control Mario Runco called a "landing of a different kind" referring to D-Day on June 6, 1944.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-96/html/ndexpage.html>

**STS-93** July 22-July 27, 1999

7/23/99 "Beep Beep" – Louis Prima; music for Eileen Collins provided by her family.

7/24/99 "Brave New Girls" – Teresa

7/25/99 "Someday Soon" written by Judy Collins and performed by Suzy Boguss chosen in honor of Pilot Jeff Ashby

7/26/99 "The Sounds of Silence" – Simon and Garfunkel

7/27/99 "A Little Traveling Music" – Barry Manilow requested by Hawley's wife Eileen, and The Air Force Song ("Off We Go Into the Wild Blue Yonder") played for Collins and Coleman.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-93/html/ndexpage.html>

**STS-103** December 19 - 27, 1999

12/20/99 Bachman-Turner Overdrive's "Taking Care of Business"

12/21/99 "Rendezvous" by Bruce Springsteen

12/22/99 "Hucklebuck" performed by Beau Jocque and the Zydeco Hi-Rollers, a tune that the spacewalkers heard many times while training hundreds of hours for the mission in the 6.5-million gallon water tank at the Johnson Space Center in Houston.

12/23/99 Traditional Swiss music was played for Nicollier and the song "Only When I Sleep" by The Corrs was played for Foale.

12/24/99 Steppenwolf's "Magic Carpet Ride" was played for Smith and the children's song "Skinnamarink" by Kimbo for Grunsfeld.

12/25/99 Bing Crosby's "I'll Be Home for Christmas."

12/26/99 "We're So Good Together" by Reba McEntyre, played for Pilot Scott Kelly at the request of his wife.

12/27/99 "The Cup of Life," sung by Ricky Martin. The music was the official song of France '98 World Cup Soccer and was played for Mission Specialist #2, Jean-Francois Clervoy of the European Space Agency at the request of his son.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-103/html/ndexpage.html>

**STS-99** February 11 - 22, 2000

The crew worked two shifts around the clock but Mission Control sent wakeup calls anyway.

2/11/2000 "Time for Me to Fly" - REO Speedwagon (Blue Team wakeup call)  
2/12/2000 "Some Guys Have All The Luck" - Robert Palmer (Red Team wakeup call)  
2/12/2000 "Eye in the Sky" - Alan Parsons Project (Blue Team wakeup call)  
2/13/2000 "Jumpin' Jive" - Cab Calloway as performed by Joe Jackson (Red Team wakeup call)  
2/13/2000 "Linus and Lucy" by Vince Guaraldi (Blue Team wakeup call)  
2/14/2000 "Journey to the Stars" theme song to the popular Japanese anime Galaxy Express - performed by Godiego (Blue Team wakeup call)  
2/14/2000 "Radar Love" - performed by Golden Earring (Red Team wakeup call)  
2/15/2000 "New York, New York" - performed by Frank Sinatra (Red Team wakeup call)  
2/15/2000 "Canon in D" by Johann Pachebel - as performed by George Winston (Blue Team wakeup call)  
2/16/2000 "We Saw the Sea" - performed by The Naval Academy Glee Club (Blue Team wakeup call)  
2/16/2000 "Smack Dab in the Middle" - performed by Ray Charles (Red Team wakeup call)  
2/17/2000 "Die Moldau" - performed by The Boston Symphony Orchestra (Red Team wakeup call)  
2/17/2000 "Take a Little Less" - performed by Barton and Sweeney (Blue Team wakeup call)  
2/18/2000 "Magic Carpet Ride" - performed by Steppenwolf (Red Team wakeup call)  
2/18/2000 "Rawhide" - performed by Frankie Laine (Blue Team wakeup call)  
2/19/2000 "One after 909" - performed by The Beatles (Blue Team wakeup call)  
2/19/2000 "Catch the Moments As They Fly By" - Traditional Celtic Music – Shannon River Dance (Red Team wakeup call)  
2/20/2000 "Walk Don't Run" - California Guitar Trio (Red Team wakeup call)  
2/21/2000 "Stay" Frankie Valli & Four Seasons (Blue Team wakeup call)  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-99/html/ndexpage.html>

**STS-101** May 19 - 29, 2000

2/19/2000 "Free Fallin'" - Tom Petty, played for Mission Specialist Susan Helms  
2/20/2000 "Shining Brightly" by Bob Seger in honor of the upcoming evening rendezvous with the International Space Station.  
2/21/2000 "Lookin' Out the Window" by Stevie Ray Vaughan  
2/22/2000 "Haunted House" by Roy Buchanan since the opening lyrics say "I just moved into a new house today...." in honor of the STS-101 crew entering what will be a new home for astronauts and cosmonauts later this year.  
2/23/2000 "I Only Have Eyes for You" by Flamingos -- a long distance dedication from Kathy Halsell to her husband, Mission Commander Jim Halsell  
2/24/2000 "I'm Gonna Fly" by Amy Grant which was requested by Pilot Scott Horowitz's wife  
2/25/2000 "Don't It Make You Wanna Dance" by Jerry Jeff Walker -- was played at the request of Williams' son and family.  
2/26/2000 Untitled Russian song, author unknown  
2/27/2000 "25 or 6 to 4" - Chicago  
2/28/2000 "El Capitan" - John Philip Sousa  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-101/html/ndexpage.html>



**STS-106**      September 8 - 20, 2000

9/8/2000      "I'll Be" - Edwin McCain  
9/9/2000      " I Say a Little Prayer" by Diana King, which was played for Wilcutt  
9/10/2000      "All Star" by the band Smash Mouth. The song was played for the two space walkers at the request of the EVA training and flight control teams to celebrate what will be the sixth space walk in support of station assembly and the 50th space walk in Space Shuttle history.  
9/11/2000      "The Hukilau Song" by Big Kahuna and the Copa Cat Pack, was played for Lu at the request of his sister.  
9/12/2000      "Brown-Eyed Girl" by Van Morrison - was played for Mastracchio at the request of his wife.  
9/13/2000      "Kombaht" by the group called Loobeh, played for Mission Specialist Boris Morukov of the Russian Aviation and Space Agency.  
9/14/2000      "Haze Has Melted Away" - Konstantin Nikolsky's Group  
9/15/2000      "University of Connecticut Fight Song" - University of Connecticut Band  
9/16/2000      U.S. Coast Guard Hymn "Semper Paratus" (Always Ready), played for Burbank, a Lieutenant Commander in the Coast Guard.  
9/17/2000      "YMCA" was played for Scott Altman at the request of his wife.  
9/18/2000      "Home in the Islands" by The Brothers Cazimero, played for Lu who considers Honolulu a hometown.  
9/19/2000      "Houston" performed by Dean Martin (played by crew as well as ground).  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-106/html/ndexpage.html>

**STS-92**      October 11-24, 2000

10/12/2000      "Incense and Peppermints" – Strawberry Alarm Clock. The tune is part of the "Austin Powers: International Man of Mystery" movie soundtrack and was played for the crew members, who are fans of the film.  
10/13/2000      "Girls Just Want to Have Fun" – Cyndi Lauper  
10/14/2000      "Eikan wa kimi mi Kagayku" or "You're the Winner" or literally "The Glory is Coming to you", a Japanese High School Baseball Association Inspirational Marching Song performed by Daisuke Kaga.  
10/15/2000      "Camelot" from the movie "Monty Python and the Holy Grail"  
10/16/2000      "Je t'aimais, Je t'aime, J'taimerai" - A French love song by Francis Cabrel.  
10/17/2000      "The Army Goes Rolling Along", performed by the United States Military Academy Band and its field musical group The Hellcats.  
10/18/2000      The theme from the movie "Mission Impossible."  
10/19/2000      "Anchors Away – Fanfare Version" as performed by the United States Naval Academy Band.  
10/20/2000      "The River" - Garth Brooks  
10/21/2000      "Saturday Night" - Bay City Rollers  
10/22/2000      The Air Force Song ("Off We Go Into the Wild Blue Yonder").  
10/23/2000      "Bad Bad Leroy Brown" by Jim Croce  
10/24/2000      "Deja Vu" by Crosby, Stills, Nash, and Young  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-92/html/ndexpage.html>



**STS-102**

March 8-21, 2001

- 3/8/2001 "Living the Life" performed by Rokit Scientists a group of training division instructors with whom shuttle Commander Jim Wetherbee plays drums from time to time.
- 3/9/2001 "Vashe Blagorodiye" a song from a movie entitled "White Sun of the Desert" that is traditionally watched by cosmonauts the night before a launch from the Baikonur Cosmodrome in Kazakhstan. The song was played for Expedition Two Commander Yuri Usachev, who is spending his last day aboard Discovery before beginning a handover of station command with Expedition One crewmember Yuri Gidzenko.
- 3/10/2001 "Nothing's Gonna Stop Us Now" by Starship and played in anticipation of the planned Extravehicular Activity (EVA).
- 3/11/2001 "Blast Off" from the animated feature Scooby Doo and the Alien Invaders, played for astronaut Paul Richards as a selection from his children.
- 3/12/2001 "From A Distance" performed by Nanci Griffith awakened Discovery's crew, and astronauts Paul Richards and Andy Thomas quickly began preparing for a planned six and a half hour space walk.
- 3/13/2001 "Free Fallin'" by Tom Petty -- a favorite of astronaut Susan Helms who today will take up official residence on the station as a member of the outpost's second crew.
- 3/14/2001 "Should I Stay or Should I Go" by The Clash played for returning International Space Station Expedition One Commander Bill Shepherd from his wife, Beth.
- 3/15/2001 "She Blinded Me With Science" by Thomas Dolby played in recognition of the laboratory outfitting and initial station scientific work enabled by Discovery's flight.
- 3/16/2001 "The Rising of the Moon" by The Clancy Brothers with Tommy Makem selected for Discovery's Pilot Jim Kelly by his family in honor of St. Patrick's Day tomorrow.
- 3/17/2001 "Notre Dame Victory March" by "Flight Room Singers" Four Flight Controllers - Chris McKenna, Mark Ferring, Pete Hasbrook and Fisher Reynolds
- 3/18/2001 "Moscow Windows" – Folk song
- 3/19/2001 "Just What I Needed," performed by The Cars and played for returning International Space Station Commander Bill Shepherd, who, along with crew mates Yuri Gidzenko and Sergei Krikalev, is riding home aboard Discovery after four and a half months in orbit.
- 3/20/2001 "Wipe Out" – Surfariis
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-102/html/ndxpage1.html>

**STS-100**      April 19-May 1, 2001

- 4/20/2001      “Then the Morning Comes” by the musical group Smash Mouth. It was chosen for Phillips, making his first spaceflight.
- 4/21/2001      “Danger Zone” - Kenny Loggins from the soundtrack to Top Gun.
- 4/22/2001      “Take It From Day to Day” by Canadian Stan Rogers -- played for Hadfield in honor of the space walk – the first ever by a Canadian.
- 4/23/2001      "Both Sides Now" - Judy Collins
- 4/24/2001      “What A Wonderful World” by Louis Armstrong. The song was played for Parazynski in honor of today’s spacewalk.
- 4/25/2001      “Con te Partiro” (“With You I Will Go”), sung by Italian opera singer Andrea Bocelli. It was played for Guidoni who is from Italy.
- 4/26/2001      Russian folk song, "Behind the Fog." That song was played for Endeavour crewmember Russian cosmonaut Yuri Lonchakov.
- 4/27/2001      "Buckaroo," sung by Don Cain of Dubuque, Iowa, father of STS-100 Ascent and Entry Flight Director Leroy Cain.
- 4/28/2001      "Dangerous," sung by C'est Cheese, played for Canadian Astronaut Chris Hadfield at the request of his wife.
- 4/29/2001      "Miles from Nowhere," performed by Cat Stevens and played for Ashby in anticipation of today's undocking.
- 4/30/2001      Soundtrack to the movie “Gladiator” (5:41 GMT)
- 4/30/2001      "Big Arm on His Ship" - Robinson, etc.
- 5/1/2001      "True" performed by Spandau Ballet. The wakeup music was for Rominger, requested by his family.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-100/html/ndxpage1.html>

**STS-104**      July 12 – July 24, 2001

7/12/2001      "Wallace Courts Murron" - from the soundtrack to the movie "Braveheart." The song, by James Horner, was played for Atlantis Pilot Charlie Hobaugh.

7/13/2001      "God of Wonders" by Caedmon's Call

7/14/2001      "Space Cowboy" by N'Sync for Mission Specialist Janet Kavandi.

7/15/2001      "No Woman, No Cry" by Bob Marley for Mission Specialist Mike Gernhardt.

7/16/2001      "Nobody Does it Better" by Carly Simon, from the soundtrack to the movie "The Spy Who Loved Me" for Mission Specialist Jim Reilly.

7/17/2001      "Happy Birthday, Darlin'" by Conway Twitty for Atlantis Mission Specialist Janet Kavandi who was celebrating a birthday.

7/18/2001      "All I Wanna Do" by Sheryl Crow for the entire crew from their training team.

7/19/2001      "A Time to Dance" by Janet Giroux played by the Space Center Intermediate School Symphonic Band. The band was directed by Giroux and the song was played for Reilly.

7/20/2001      "I Could Write a Book" by Harry Connick Jr., from the soundtrack to the movie "When Harry Met Sally" for Lindsey.

7/21/2001      "Who Let the Dogs Out?" by the Baha Men for Hobaugh.

7/22/2001      "Orinoco Flow" by Enya for Mike Gernhardt.

7/23/2001      "Honey, I'm Home" by Shania Twain for Kavandi.

7/24/2001      "Hold Back the Rain" by Duran Duran

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-104/html/ndxpage1.html>

**STS-105**      August 10 – 22, 2001

8/11/2001      "Back in the Saddle Again" by Gene Autry. It was played for Culbertson, making his third flight into space, eight years after he last flew.

8/12/2001      "The White Eagle," a traditional Russian folk song played for Expedition Three Pilot Vladimir Dezhurov.

8/13/2001      Overture from "The Barber of Seville" by Rossini, a tribute to Expedition Three Flight Engineer Mikhail Tyurin.

8/14/2001      Theme from the movie, "Arthur" or "Arthur's Theme (Best That You Can Do)" by Christopher Cross.

8/15/2001      "Big Boy Toys", a country and western tune by Aaron Tippin, selected for Pilot Rick Sturckow by his wife.

8/16/2001      "The Marvelous Toy" by Tom Paxton for Mission Specialist Dan Barry from his wife.

8/17/2001      "Time Bomb", a song performed for Forrester by his sons, Patrick and Andrew.

8/18/2001      "Hotel California," performed by the Eagles. It was requested for Expedition Two Commander Yury Usachev by his wife.

8/19/2001      "Under the Boardwalk" by the Drifters, played for Jim Voss by his wife Suzan.

8/20/2001      "Brand New Day," played by Sting. The song was for Helms, requested by her family and friends.

8/21/2001      "East Bound and Down" by Jerry Reed, at the request of their Houston-based training team.

8/22/2001      "Again" by Lenny Kravitz

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-105/html/ndxpage1.html>

**STS-108**

December 5 - 17, 2001

- 12/6/2001 "Soul Spirit" and "Put a Little Love in Your Life," sung by Bursch's daughter and her second-grade classmates.
- 12/7/2001 "God of Wonders" performed by 95:1, a worship band from St. Thomas Episcopal Church. Commander Dom Gorie's daughter Kim sings.
- 12/8/2001 "Wade Into the Water" performed by Clear Creek Mighty Wildcat Marching Band. Mission Specialist Carl Walz's son Aaron plays percussion.
- 12/9/2001 "It's A Grand Ol' Flag" performed by the Fire Department of New York Emerald Society Pipes & Drums. A New York firefighter presented Pilot Mark Kelly with today's wakeup music when Kelly visited the World Trade Center site with former NASA Administrator Dan Goldin shortly after the September 11 attacks.
- 12/10/2001 "Jumpin' at the Woodside," performed by Mission Specialist Linda Godwin's own band, Brass, Rhythm and Reeds composed mostly of NASA and NASA contractor personnel. Godwin plays tenor sax in this 18-piece big band recording.
- 12/11/2001 "Let There Be Peace on Earth," performed by Vince and Jenny Gill from the Vince Gill album "Let There be Peace on Earth" awakened Endeavour's crew this morning at 6:19 a.m. CST. The song was played for Expedition Three Commander Frank Culbertson from his wife for his years of dedicated pursuit of peace on Earth through service to his country, and in tribute to a special anniversary today.
- 12/12/2001 "Fly Me to the Moon", sung by Oliver "Ollie" O'Regin for Dan Tani.
- 12/13/2001 "Here Comes the Sun", in memory of former Beatle George Harrison, who recently died of cancer. The instrumental was from the IMAX movie, "Everest". The song was played for the Expedition Three Crewmembers, Commander Frank Culbertson, Pilot Vladimir Dezhurov and Flight Engineer Mikhail Tyurin.
- 12/14/2001 Traditional Russian song, "My Sweetheart," played for Onufrienko, Dezhurov and Tyurin. The Expedition Four crew was awakened about a half-hour later with a wakeup tone on board the station.
- 12/15/2001 "Where I Come From," by Alan Jackson, for Pilot Mark Kelly from his family.
- 12/16/2001 "I'll Be Home For Christmas," sung by Bing Crosby.
- 12/17/2001 "Please Come Home For Christmas" sung by Jon Bon Jovi.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-108/html/ndxpage1.html>

**STS-109**

March 1-12, 2001

- 3/1/2002 "Blue Telescope" - John Hiatt
- 3/2/2002 "Theme from Mission: Impossible"
- 3/3/2002 Mozart's "Five Variations on Twinkle, Twinkle Little Star" performed by Jenö Jando
- 3/4/2002 The children's song "Floating in the Bathtub," by Tonya Evetts Weimer. It was played for Jim Newman.
- 3/5/2002 "Carmen Ohio," performed by the Ohio State University marching band and played for Ohio State alumni Nancy Currie and Rick Linnehan aboard Columbia.
- 3/6/2002 The original song "Sittin on Top of the World," Les Paul and Mary Ford. Dedication following was recorded the week before for the STS-109 crew by Les Paul, a music pioneer and space enthusiast.
- 3/7/2002 The Mission Impossible: II theme song, performed by Limp Bizkit.
- 3/8/2002 "Who Made Who" by AC DC. The song was played for pilot Duane Carey.
- 3/9/2002 "Fly Me to the Moon" by Frank Sinatra. The song was played for Commander Scott "Scooter" Altman.
- 3/10/2002 "Floating" by the Moody Blues dedicated to first-time fliers, pilot "Digger" and spacewalker Massimino.
- 3/11/2002 "Countdown" -- Rush

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-109/html/ndxpage1.html>

**STS-110**

April 8-22, 2002

- 4/9/2002 "The Best Years of Our Lives" by the Baha Men.
- 4/10/2002 "Rapunzel Got a Mohawk," performed by Joe Scruggs. The song was played for Ochoa, at the request of her family.
- 4/11/2002 University of California-Berkeley fight song performed by the school band and "All Right Now," performed by the Stanford University band. Ochoa requested the songs be played for crewmates Walheim and Smith who attended the rival schools. *Ochoa's also a Stanford graduate.* PC
- 4/12/2002 "Testify to Love," by Wynonna Judd played for Bloomfield from his family.
- 4/13/2002 "Voodoo Chile," by Jimi Hendrix. It was played for Morin, who will be making his first spacewalk, at the request of his wife.
- 4/14/2002 "All Star," performed by Smash Mouth from the Shrek movie soundtrack. The song was played for Walheim by his family.
- 4/15/2002 "Magic Carpet Ride" by Steppenwolf, dedicated to Smith.
- 4/16/2002 "I Am an American," performed by the Purdue University Marching band. It was dedicated to Purdue graduate Ross.
- 4/17/2002 "Noah," performed by Steve Frick when he was a teen-ager.
- 4/18/2002 "Somewhere Over the Rainbow" - STS-110 Commander Mike Bloomfield's daughter, Courtney.
- 4/19/2002 "Message in a Bottle," by The Police.
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-110/html/ndxpage1.html>

**STS-111**

June 5 -19, 2002

- 6/6/2002 "Gettin' Jiggy Wit It," by Will Smith. The song was played for Valery Korzun, who will soon take command of the space station.
- 6/7/2002 "American Woman," by Lenny Kravitz, a song selected for Peggy Whitson.
- 6/8/2002 "I Have a Dream," by ABBA, a song selected for Sergei Treschev.
- 6/9/2002 "Drops of Jupiter" by Train, a tune selected for Ken Cockrell.
- 6/10/2002 "I Only Have Eyes for You" by the Flamingos, from the American Graffiti soundtrack which was selected for Paul Lockhart. *Selected by his wife Mary. The two danced to the song at their wedding.* PC
- 6/11/2002 "Mi PC" by Juan Luis Guerra, selected for Chang-Díaz by his family.
- 6/12/2002 "Chasing Sheep is Best Left to Shepherds," by Peter Greenaway, selected for Philippe Perrin by his family.
- 6/13/2002 "On the Road Again," by Willie Nelson, selected for Carl Walz by his family.
- 6/14/2002 "The Star Spangled Banner" in honor of Flag Day.
- 6/15/2002 "Hello to All the Children of the World" prepared by Expedition Four Flight Engineer Dan Bursch's son and his classmates.
- 6/16/2002 "Where My Heart Will Take Me," the theme song from TV series, "Star Trek: Enterprise," performed by Russell Watson. (see STS-114, Flight Day 8/2/2005)
- 6/17/2002 "The Eyes of Texas," performed by the University of Texas Marching Band. Cockrell and Lockhart hold degrees from that university.
- 6/18/2002 "Sojourner" by Matt Gast, the flight's lead timeliner or scheduler of crew activities.
- 6/19/2002 "I Got You Babe" by Sonny and Cher from the "Groundhog Day" movie soundtrack. *"Groundhog Day's "I Got You Babe" is a recurring theme for wakeup calls on missions which have been extended an additional two days, with the astronauts having to repeat their deorbit activities each day only to be told that because of bad weather they're going to go through the same tasks again the next day. For commander Ken Cockrell this was his third mission in a row where he's stayed in orbit for an additional two days in the hopes of good weather in Florida. On STS-80 the landing finally cooperated and he landed in Florida, for STS-98 and STS-111 he landed at the alternate site in California.* PC

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-111/html/ndxpage1.html>

**STS-112**

October 7-18, 2002

10/8/2002 "Venus and Mars" by Paul McCartney and Wings. It was for David Wolf, requested by his wife, Tammy.

10/9/2002 "The Best" by Tina Turner for Commander Jeff Ashby from his wife, Paige.

10/10/2002 The "medley of childhood songs" including "(Theme from) The Monkees" - The Monkees, "Rocket Man" - Elton John, "Space Oddity" - David Bowie and "I Am Woman" - Helen Reddy was played for Sandra Magnus from her family.

10/11/2002 "Oh Thou Tupelo," performed by the Wellesley College Choir, was for Pamela Melroy, a 1983 graduate.

10/12/2002 "Push It," performed by the group Garbage. It was for Piers Sellers, requested by his family.

10/13/2002 The "Aviation March," composed by Isaac Dunaevsky, is the hymn of the Moscow Aviation Institute, Yurchikhin's alma mater.

10/14/2002 "You Gave Me The Answer," by Paul McCartney and Wings for Dave Wolf from his wife Tammy.

10/15/2002 "Only an Ocean Away," performed by Sarah Brightman. It was requested for Sandy Magnus by her jogging friends.

10/16/2002 "Prime Time" by The Alan Parsons Project was played for Pilot Pam Melroy, requested by her husband, Chris.

10/17/2002 "These are the Days" performed by 10,000 Maniacs was played for Sellers at the request of his wife.

10/18/2002 "Someday Soon," performed by Suzy Bogguss. It was for Ashby, requested by his wife.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-112/html/ndxpage1.html>



- 11/24/2002 The Wind Ensemble -- Music for Wetherbee, provided by his daughter
- 11/25/2002 "I Need You Like a Hole in My Head" by Sting
- 11/26/2002 "Gimme All Your Lovin'" by ZZ Top
- 11/27/2002 "Copperhead Road" by Steve Earle
- 11/28/2002 "Figaro's Wedding" from the movie "Trading Places"
- 11/29/2002 "Quiet Flame" by Leap Year
- 11/30/2002 "Walkin' on Sunshine" by Kylie Minogue *Selected by Paul Lockhart's daughters. Capcom Joan Higgenbotham radioed up the music and said "Good morning Endeavour. Welcome to EVA (Spacewalk) 3 day. We're looking forward to some more incredible views provided courtesy of our two spacewalkers. Paco (Lockhart's nickname), this morning's wakeup music is 'Walking on Sunshine' which is what Mary and the girls will be doing once your safely back home."*
- "Good morning Miss Joanie and to everyone down there in mission control. It's great to hear your voice this morning," Lockhart replied. "Walking on sunshine? I think that's what John (Herrington) and Mike (Lopez-Alegria) are going to be doing for several hours today... I'd like to say thank you to my wife and my daughters for thinking about me the last few days and I'm looking forward to seeing them too."* PC
- 12/1/2002 "Roll With It" by Steve Winwood
- 12/2/2002 "Cheesty Proody" (phonetic spelling), which means "Clear Ponds" in Russian, by Igor Talkov
- 12/3/2002 "Flot" (phonetic spelling), which means "Raft" in Russian, by Yuri Loza
- 12/4/2002 "Aserejé," also known as "The Ketchup Song (Hey Hah)," by Las Ketchup
- 12/5/2002 "Hotel California" by The Eagles
- 12/6/2002 Clips from the movie "Groundhog Day" ("I Got You Babe") and the television game show "Jeopardy"
- The "Groundhog Day" was a reference to the multiple landing attempts. At this point STS-113 tied the previous record of two additional extensions waiting for good weather. With the additional day beyond that, they set a new record for the number of landing tries. The Jeopardy theme music was a running gag between Mike Lopez-Alegria and the Capcoms where he would pose various questions about the mission's status as quizzes. At one point the Capcom answered one of L-A's queries, and he replied "But you forgot to phrase it in the form of a question."*
- The evening before when MCC said goodnight a Capcom cautioned "the wakeup music may sound familiar." Wetherbee replied "How will we know?"*
- (a reference to the repeating cycle in the movie "Groundhog Day".* PC
- 12/7/2002 "I'll Be Home for Christmas" by Perry Como
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-113/html/ndxpage1.html>

**STS-107** January 16—February 1, 2003

The crew worked two shifts around the clock but Mission Control sent wakeup calls anyway.

- 1/16/2003 Blue Team - "EMA EMA" *Dedicated to Dave Brown.* PC  
Red Team - "America, the Beautiful" by the Texas Elementary Honors Choir, with Rick Husband's daughter, Laura
- 1/17/2003 Blue Team - "Coming Back to Life" by Pink Floyd. *Dedicated to Willie McCool.* PC  
Red Team - "Space Truckin'" by Deep Purple. *Dedicated to Kalpana Chawla.* PC
- 1/18/2003 Blue Team - "Cultural Exchange" *Dedicated to Dave Brown.* PC  
Red Team - "Hatishma Koli" by Hachalonot Hgvohim. *Dedicated to Ilan Ramon.* PC
- 1/19/2003 Blue Team - "Fake Plastic Trees" by Radiohead. *Dedicated to Willie McCool.* PC  
Red Team - "Amazing Grace" by Black Watch and 51 Band of Highland Brigade. *Dedicated to Laurel Clark - The same song on bagpipes was played at her wedding, for the wakeup in space, and at her funeral.* PC
- 1/20/2003 Blue Team - "Texan 60" *Dedicated to Dave Brown.* PC  
Red Team - "God of Wonders" by Steve Green. *Dedicated to Rick Husband.* PC
- 1/21/2003 Blue Team - "The Wedding Song" by Paul Stookey for Pilot Willie McCool  
Red Team - "Prabhati" by Ravi Shankar. *Dedicated to Kalpana Chawla.* PC
- 1/22/2003 Blue Team - "Hakuna Matata" by The Baha Men for Anderson from his two kids.  
*From the movie "Lion King"* PC  
Red Team - "Ma ata oshah kesheata kam baboker?" by Arik Einstein. *Dedicated to Ilan Ramon.* PC
- 1/23/2003 Blue Team - "Burning Down the House" by Talking Heads in honor of combustion experiments on this flight  
Red Team - "Kung Fu Fighting" by Carl Douglas.  
*The crew had a stuffed hamster toy which played that song. It was their 'mascot' and they took it everywhere during their training.* PC
- 1/24/2003 Blue Team - "Hotel California" performed by Pilot William McCool's family (Josie McCool, Shawn McCool)  
*The family members were Sean McCool on the guitar, his former girlfriend (but still friend) Josee Julian, and Josee's father Frank also on guitar. (Reference - an email to me from Lani McCool)* PC  
Red Team - "The Prayer" by Celine Dion. *Dedicated to Rick Husband.* PC
- 1/25/2003 Blue Team - "I Say a Little Prayer" by Dionne Warwick played for Anderson from his wife  
Red Team - "Drops of Jupiter" by Train. *Dedicated to Kalpana Chawla.* PC
- 1/26/2003 Blue Team - "When Day is Done" by Django Reinhardt and Stephane Grappelli. *Dedicated to Dave Brown. Capcom Charlie Hobaugh said, "We're doing great down here, and I feel cultured." Dave replied, "It's about time."* PC  
Red Team - "Love of My Life" by Queen. *Dedicated to Ilan Ramon.*  
*A videotape of the wakeup activities survived the accident.* PC
- 1/27/2003 Blue Team - "Slow Boat to Rio" by Earl Klugh. *Dedicated to Mike Anderson.* PC  
Red Team - "Running to the Light" by Runrig. *Dedicated to Laurel Clark* PC
- 1/28/2003 Blue Team - "I Get Around" by The Beach Boys. *Dedicated to Dave Brown.* PC  
Red Team - "Up on the Roof" by James Taylor. *Dedicated to Rick Husband.* PC
- 1/29/2003 Blue Team - "Imagine" by John Lennon. McCool and Ramon said their observations from orbit reveal no borders on the Earth below and reiterated in both English and Hebrew their hopes for peace in the world.  
*Dedicated to Willie McCool.* PC  
Red Team - "Yaar ko hamne ja ba ja dekha" by Abita Parveen.  
*Dedicated to Kalpana Chawla. A videotape of the crew activities during this wakeup call survived the accident.* PC

1/30/2003

Blue Team - "Silver Inches" by Enya. *Dedicated to Dave Brown.* PC

Red Team - "Shalom lach erez nehederet" by Yehoram Gaon.

*Dedicated to Ilan Ramon - The tune is the same as Arlo Guthrie's*

*"City of New Orleans." Ilan said, "Good morning, Stephanie, it was*

*wonderful to hear your voice in Hebrew. It was perfect timing while*

*we flew over Israel to hear this song, which says I've been to the*

*North Pole and to everywhere but there's no place better than Israel." PC*

1/31/2003

Blue Team - "If You've Been Delivered" by Kirk Franklin. *Dedicated to Mike Anderson.* PC

Red Team - "Scotland the Brave" by The Black Watch and the band of the 51st Highland

Brigade. *Dedicated to Laurel Clark* PC

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-107/html/ndxpage1.html>

**STS-114**

July 26 – August 9, 2005

- 7/26/2005 Excerpts from the movie "Groundhog Day" (including the repeating "I Got You Babe" by Sonny and Cher) which was for the entire crew to commemorate its first day out of quarantine.
- 7/27/2005 "What a Wonderful World" by Louis Armstrong. The Station crew was awakened at the same time by a tone onboard.
- 7/28/2005 "Vertigo" by U2 played for Pilot Jim Kelly. Capcom Shannon Lucid noted during the wakeup call that Kelly, whose nickname is "Vegas," was promoted to Colonel in the U.S. Air Force recently. The Station crew was awakened at 11:09 p.m. CDT by a tone onboard.
- 7/29/2005 "Sanpo," performed by the chorus from the Japanese School of Houston. It is made up of a group of children, including Noguchi's. The Station crew was awakened at 11:09 p.m. CDT by a tone onboard.
- 7/30/2005 "I'm Goin' Up" by Claire Lynch for Mission Specialist Wendy Lawrence. The Space Station crew was awakened about the same time by a tone onboard.
- 7/31/2005 "Walk of Life" by Dire Straits for Steve Robinson. The Space Station crew was awakened at 10:39 p.m. CDT by a tone onboard. *CAPsule COMMunicator (CAPCOM) Shannon Lucid radioed the crew with Dire Straits' "Walk of Life," in honor of the duo's upcoming repair work on the International Space Station. "What a great day to go do a walk of life," said Robinson, who happens to play guitar in the astronaut rock band, Max-Q. "I like that line in there: 'You got the action, and you got the motion.'" From Music to Wake Up By 8/10/05 [http://www.nasa.gov/vision/space/features/wakeup\\_calls.html](http://www.nasa.gov/vision/space/features/wakeup_calls.html)*
- 8/1/2005 "Big Rock Candy Mountain" by Harry McClintock for Mission Specialist Andy Thomas.
- 8/2/2005 "Where My Heart Will Take Me," the theme song from "Star Trek: Enterprise." This song, , was selected for the crew as a surprise dedication from the Deputy Shuttle Program Manager Wayne Hale. *(This selection was identified as composed by Dennis McCarthy in **STS-114 MCC Status Report #16**. Though McCarthy did write the orchestral suites for the "Star Trek" TV series he did not write this. It was written by Diane Warren originally as "Faith of the Heart" for the soundtrack of the film, "Patch Adams" and sung by Rod Stewart. Then, virtually the identical song was renamed and used as the theme for "Enterprise" -- this time sung by British tenor, Russell Watson - CAF)*
- 8/3/2005 "Amarillo by Morning" by George Strait. Expedition 11 crew of Commander Sergei Krikalev and Flight Engineer and NASA ISS Science Officer John Phillips, woke up 30 minutes later. *"Amarillo By Morning" was dedicated not to the crew in space, but to the Columbia STS-107 crew commanded by Amarillo Native Rick Husband. The day included a dedication to the Columbia crew and other space explorers who died during their missions. When the wakeup was sent it was Husband's son, Matthew's birthday. PC*
- 8/4/2005 "Anchors Aweigh" dedicated to Mission Specialist Wendy Lawrence at the request of Commander Eileen Collins. Space Station Expedition 11 crewmates John Phillips and Sergei Krikalev woke 30 minutes later.
- 8/5/2005 "The Air Force Song" dedicated to Pilot Jim Kelly, a colonel in the U.S. Air Force, at the request of Commander Eileen Collins. Space Station Expedition 11 crewmates John Phillips and Sergei Krikalev woke 30 minutes later.
- 8/6/2005 "The One and Only Flower in the World" sung by the Japanese group SMAP. It was played for Mission Specialist Soichi Noguchi of the Japan Aerospace Exploration Agency (JAXA).
- 8/7/2005 "Come On Eileen" by Dexy's Midnight Runners. It was played for Discovery's Commander Eileen Collins from the Mission Control Team.
- 8/8/2005 "Good Day Sunshine" by The Beatles.
- <http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-114/html/ndxpage1.html>

"Well, you know, sometimes we know ahead of time what the music is going to be and who it's for, and other times it's a complete surprise. You're just woken up by it and you've got to scramble out of your sleeping bag to try to make some profound statement about it," [Mark] Kelly said. "And you know, other times, that just doesn't happen." "The Flame Trench" Space Blog <http://www.floridatoday.com/floridatoday/blogs/spaceteam/> Posted by Todd Halvorson 7/11/2006

7/5/2005 "Lift Every Voice and Sing" by the New Galveston Chorale played for Mission Specialist Stephanie Wilson.  
7/6/2006 "Daniel" by Elton John played for Mission Specialist Thomas Reiter.  
7/7/2006 "Good Day Sunshine" by the Beatles played for Mission Specialist Lisa Nowak.  
7/8/2006 "God of Wonders" by Mark Byrd and Steve Hindalong played for Mission Specialist Mike Fossum. Selected by his family.  
7/9/2006 "I Had a Dream" by ABBA for Shuttle Pilot Mark Kelly. Requested by his children "Hey, that was Mark's kids favorite, and I used to be an ABBA fan," Sellers said today in a space-to-ground interview with Mike Schneider, an Associated Press writer based at Cape Canaveral.  
"The Flame Trench" Space Blog 7/11/2006  
7/10/2006 "Clocks" by Coldplay for Mission Specialist Piers Sellers. Requested by his family.  
7/11/2006 "All Star" by Smashmouth for Mission Specialist Lisa Nowak. Requested by her family.  
7/12/2006 "I Believe I Can Fly" by R. Kelly for Mission Specialist Stephanie Wilson.  
7/13/2006 Theme from the television show "Charlies Angels" for the entire STS-121 crew from their training team.  
7/14/2006 "Aggie War Hymn" by the The Fightin' Texas Aggie Band for Mission Specialist Mike Fossum, a graduate of Texas A&M University.  
7/15/2006 "Beautiful Day" by U2 for Pilot Mark Kelly, on undocking day.  
7/16/2006 "Just Like Heaven" by The Cure for Mission Specialist Piers Sellers. It was requested by his family.  
7/17/2006 "The Astronaut" by Something Corporate for Commander Steve Lindsey.  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-121/html/ndxpage1.html>

**STS-115**

September 9 –21, 2006

7/10/2006 "Moon River," by Audrey Hepburn, for Brent Jett.  
7/11/2006 A solo cello performance for Mission Specialist Dan Burbank.  
7/12/2006 "My Friendly Epistle," a Ukrainian song by Taras Shevchenko. It was played for Heide Stefanyshyn-Piper.  
7/13/2006 "Takin' Care of Business" by Bachman-Turner Overdrive for Mission Specialist Steve MacLean.  
7/14/2006 "Wipe Out" by the Surfaris for Pilot Chris Ferguson.  
7/15/2006 "Hotel California" by the Eagles for Mission Specialist Joe Tanner.  
7/16/2006 "Twelve Volt Man" by Jimmy Buffett for Mission Specialist Dan Burbank.  
7/17/2006 "Danger Zone" by Kenny Loggins for Pilot Chris Ferguson.  
7/18/2006 "Rocky Mountain High" by John Denver for Mission Specialist Joe Tanner.  
7/19/2006 "Ne Partez Pas Sans Moi" (Don't Leave Without Me) by Celine Dion for Mission Specialist Steve MacLean.  
7/20/2006 "Beautiful Day" by U2 for Mission Specialist Heidemarie Stefanyshyn-Piper.  
7/21/2006 "WWOZ" by Better Than Ezra for Commander Brent Jett.  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-115/html/ndxpage1.html>

**STS-116**

December 9 –22, 2006

12/10/2006 "Here Comes the Sun" by the Beatles for Mark Polansky.  
12/11/2006 "Beep Beep," performed by Louis Prima for Sunita Williams.  
12/12/2006 "Waterloo," performed by ABBA for Christer Fuglesang who is from Sweden. "Nice music this morning," Fuglesang said from the Quest airlock, where he spent the night preparing for the spacewalk with Curbeam.  
12/13/2006 "Suavemente," performed by Elvis Crespo, played for Joan Higginbotham.  
12/14/2006 "Under Pressure," performed by Queen for Robert Curbeam.  
12/15/2006 "Low Rider," performed by War, and played for William Oefelein.  
12/16/2006 Aaron Copeland's "Fanfare for the Common Man," performed by the London Philharmonic Orchestra. The music was played for Nicholas Patrick.  
12/17/2006 "Beautiful Blue Danube" performed by the Vienna Philharmonic Orchestra for Christer Fuglesang.  
12/18/2006 "Good Vibrations," performed by the Beach Boys for the entire crew in honor of the vibrations the spacewalkers may create today to attempt to free the balky solar panels.  
12/19/2006 "The Zamboni Song," performed by the Gear Daddies. The song, dedicated to the entire crew, was requested by the training team who sent a message to Oefelein saying they had arranged for him to fly the shuttle half a lap around the station.  
12/20/2006 "Say You'll be Mine," performed by Christopher Cross for Thomas Reiter.  
12/21/2006 "The Road Less Traveled," performed by Joe Sample for Higginbotham.  
12/22/2006 "Home for the Holidays," sung by Perry Como for the crew, requested by the Mission Control Center.  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-116/html/ndxpage1.html>

**STS-117**

June 8-22, 2007

- 6/9/2007 "Big Boy Toys" by Aaron Tippin, sounded on board the orbiter at 9:10 a.m. CDT, played for Commander Rick Sturckow.
- 6/10/2007 "Riding the Sky," written and performed by Johnson Space Center employees David Kellendorf and Brad Loveall for Mission Specialist Clayton Anderson in honor of his move to the space station.
- 6/11/2007 "It Probably Always Will" by the Ozark Mountain Daredevils, played for Mission Specialist Steven Swanson.
- 6/12/2007 "What a Wonderful World" by Louis Armstrong, played for Mission Specialist Danny Olivas.
- 6/13/2007 "Questions 67 and 68" by Chicago, played for Pilot Lee Archambault.
- 6/14/2007 "Indescribable" by Chris Tomlin for Mission Specialist Patrick Forrester.
- 6/15/2007 "Radar Love" by Golden Earring, played for Mission Specialist Steve Swanson.
- 6/16/2007 University of Texas at El Paso Fight Song, performed by the UTEP Pep Band, was played for Mission Specialist (and UTEP alumnus) John "Danny" Olivas at 7:38 a.m. CDT.
- 6/17/2007 Theme song from "Band of Brothers," played for Mission Specialist Jim Reilly.
- 6/18/2007 "Redeemer" by Nicole C. Mullen, played for Mission Specialist Patrick Forrester.
- 6/19/2007 "Feelin' Stronger Every Day" by Chicago, played for Pilot Lee Archambault.
- 6/20/2007 "If I Had \$1000000" by Barenaked Ladies, played for Mission Specialist Suni Williams.
- 6/21/2007 "Makin' Good Time Coming Home" by John Arthur Martinez, was played for Commander Rick Sturckow and Mission Specialist Jim Reilly.
- 6/22/2007 "The Marines' Hymn," was played for the mission commander, Col. Rick Sturckow, USMC.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-117/html/ndxpage1.html>

**STS-118**

August 8-21, 2007

- 8/9/2007 "Where My Heart Will Take Me," performed by Russell Watson. It was played for Mission Specialist Rick Mastracchio.
- 8/10/2007 "Mr. Blue Sky," performed by Electric Light Orchestra. It was played for Commander Scott Kelly.
- 8/11/2007 "Gravity," performed by John Mayer. It was played for Pilot Charles Hobaugh.
- 8/12/2007 "Up!" performed by Shania Twain. It was played for Mission Specialist Dave Williams.
- 8/13/2007 "Outta Space" performed by Billy Preston. It was played for Mission Specialist Alvin Drew.
- 8/14/2007 "Happy Birthday Tracy," performed by children in an extended day care program run by Tracy Caldwell's mother, Mary Ellen Caldwell, at the Beaumont Cherry Valley Recreation and Park District's Noble Creek Community Center in recognition of the day's significance. "Thank you very much. This is one of the best places I could think of to spend my birthday," Tracy said after hearing the pre-recorded greeting.
- 8/15/2007 "Good Morning World." It was written and performed by Mission Specialist Barbara Morgan's son Adam.
- 8/16/2007 "Times Like These" by the Foo Fighters. It was for Mission Specialist Rick Mastracchio.
- 8/17/2007 "Black Horse and the Cherry Tree," performed by KT Tunstall, for Mission Specialist Tracy Caldwell.
- 8/18/2007 "Learn to Fly," performed by the Foo Fighters. It was played for Mission Specialist Alvin Drew.
- 8/19/2007 "Teacher, Teacher," performed by .38 Special. It was for Mission Specialist Barbara Morgan.
- 8/20/2007 "Flying," performed by the Long John Baldry Trio, a Canadian group. It was for Williams, a Canadian Space Agency astronaut.
- 8/21/2007 "Homeward Bound," performed by Simon & Garfunkel. It was for the entire crew.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-118/html/ndxpage1.html>

**STS-120**

October 23-November 7, 2007

- 10/24/2007 "Lord of the Dance," performed by John Langstaff, was played for Commander Pam Melroy.
- 10/25/2007 "Dancing in the Moonlight" by King Harvest for astronaut Dan Tani. "It's moving day for me and I can't wait to settle in my new home," said Tani.
- 10/26/2007 "Rocket Man" by Elton John, played for Mission Specialist Doug Wheelock on the day he performs the first spacewalk of his career.
- 10/27/2007 "Bellissime Stelle" (Beautiful Stars) by Andrea Bocelli was played for European Space Agency astronaut Paolo Nespoli of Italy, the country where the new node, Harmony, was built.
- 10/28/2007 "What a Wonderful World," by Louis Armstrong, was played for Mission Specialist Scott Parazynski on the day he makes his second spacewalk of the mission. "That's how you start the day in space," Parazynski said. "I can't think of a more beautiful way to begin the day than hear those words. It really describes the view from space."
- 10/29/2007 "One by One" by Wynton Marsalis, was played for Mission Specialist Stephanie Wilson, one of the robot arm operators for this morning's hand off of the P6 truss element between the shuttle and station robot arms.
- 10/30/2007 "Malaguena Salerosa" by Chingon, was played for Pilot George Zamka, who will be operating the shuttle robotic arm.
- 10/31/2007 "Nel Blu Dipinto di Blu" by Domenico Modugno, for Mission Specialist Paolo Nespoli. The song's title translates as "In the blue (sky), painted blue;" it is widely known as "Volare."
- 11/1/2007 "The Lion Sleeps Tonight" by Robert John. The song was chosen by the crew's training team. "That was a lot of fun," Discovery commander Pamela Melroy said. "That certainly gets you going first thing in the morning."
- 11/2/2007 "World" by Five for Fighting for Mission Specialist Doug Wheelock, who will be performing his third spacewalk on Saturday. Wheelock dedicated the song to the ground support team.
- 11/3/2007 The crews of Space Shuttle Discovery and the station were awakened this morning at 12:38 with composer John Williams' theme song from the original "Star Wars" movie trilogy. The song was played for Parazynski.
- 11/4/2007 The crews of Discovery and the International Space Station were awakened before the change from daylight to standard time. The crew was roused at 1:08 a.m. CDT with the song "The Presence of the Lord," written by gospel musician Kurt Carr, originally recorded by Byron Cage. Cage's rendition was played for Mission Specialist Stephanie Wilson. Crew member Stephanie Wilson says she appreciates the selection. She says being in space has made her "very thankful" for the support of family, friends and the shuttle ground control team.
- 11/5/2007 "Roll Me Away" by Bob Seger, played for Pilot George Zamka, who will be at the controls of Discovery when it undocks from the station. "That's a great song about a road trip and we've had a great one, but it's time to turn around and head for home," astronaut George Zamka said.
- 11/6/2007 "Space Truckin'" by Deep Purple, played for Expedition 15/16 Flight Engineer and Mission Specialist Clay Anderson, who will wrap up a five-month mission to the International Space Station when Discovery lands.
- 11/7/2007 "Chitty Chitty Bang Bang" by Sherman and Sherman, was played for Commander Pam Melroy.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-120/html/ndxpage1.html>



## Space Shuttle Atlantis Astronaut Chooses Quincy Jones' 1969 Recording 'Walking in Space' as His Wake-Up Music

CAPE CANAVERAL, Fla., Dec. 2 /PRNewswire/ -- When the Space Shuttle Atlantis launches from Cape Canaveral, Florida on Thursday, December 6th on its mission to deliver the European Space Agency's Columbus laboratory to the International Space Station, Astronaut Leland Melvin will have in tow a copy of Quincy Jones' 1969 Grammy Award winning recording "Walking in Space," which he will use as his wake-up music during the mission.

Commented Melvin, "Quincy Jones is someone who I have a great deal of respect and admiration for and I couldn't think of a more appropriate selection to use as my wake-up music."

Melvin's duties on the Shuttle Atlantis mission will be to support three space walks using the robotic arm and install the Columbus laboratory from Atlantis' payload bay to its permanent home on the International Space Station.

Commented Jones, "I am truly honored that Mr. Melvin has chosen one of my pieces of work for this momentous occasion. I was inspired to record the 'Walking in Space' album in 1969 after Buzz Aldrin told me that he had played my arrangement of Frank Sinatra's 'Fly Me To The Moon' during his space flight to the moon, so to have it come full circle like this is quite remarkable and very humbling."

A jazz-R&B-pop fusion album that helped usher in a new era in R&B music in the early 70's, "Walking in Space" won Jones a Grammy Award for Best Jazz Instrumental Performance By a Large Group. Citing his groundbreaking work on "Walking in Space," in 1998 Time Magazine named Quincy Jones one of the most influential jazz musicians of the 20th Century. In January, Jones will receive the nation's highest jazz honor when he is recognized as a Jazz Master by the National Endowment for the Arts.

SOURCE Quincy Jones

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### Lab Secured to Space Station

By LIZ AUSTIN PETERSON, Associated Press Writer

Tue Feb 12, 10:12 AM

...The astronauts also participated in a chat with music impresario Quincy Jones and radio talk show host Tavis Smiley. Astronaut Leland Melvin, a pianist, carried into orbit a recording of Jones' 1969 Grammy Award-winning "Walking in Space."

Melvin said he believes Jones' music inspires the kind of creativity that will one day lead astronauts to Mars and beyond.

"It has something that reaches into your soul and it makes you think," he said. "It makes you wonder. That's exactly what we need to do."...

- 2/8/2008 "The Book of Love" performed by Peter Gabriel, was played for European Space Agency astronaut Leopold Eyharts at 3:45 a.m. CST.
- 2/9/2008 "Tishomingo Blues," a Spencer Williams composition, is the theme song from Garrison Keillor's radio variety show *A Prairie Home Companion* with lyrics written especially for the show.
- 2/10/2008 "Maenner" by German musician Herbert Groenemeyer for astronaut Hans Schlegel. "Maenner" translated is "Men." Groenemeyer is also known for his portrayal of Lieutenant Werner in Wolfgang Petersen's movie *Das Boot*. Schlegel responded: "Thank you very much for this piece of music. It's a German song about the nature of man, it was selected by my dear wife, Heike. Greetings to everybody in America, in Europe and in Germany and especially, of course, to my close family and my lovely wife, Heike. Thank you very much, Shannon."
- 2/11/2008 "Fly Like an Eagle," written by Steve Miller, was played for Mission Specialist Leland Melvin on the day he will use the station's robotic arm to lift the Columbus research module from Atlantis' payload bay.
- 2/12/2008 "Dream Come True" by Jim Brickman, was played for Mission Specialist Rex Walheim. "Doing a spacewalk certainly is a dream come true," Walheim radioed down to Mission Control. "But the biggest dream come true is having a wonderful wife Margie and my two great little boys Alex and Jeffie."
- 2/13/2008 "Oysters and Pearls" by Jimmy Buffett, was played for Pilot Alan Poindexter.
- 2/14/2008 "Consider Yourself at Home." The song, which is from the musical *Oliver!*, was played for Mission Specialist Stanley Love. "That's a wonderful song, thanks so much for sending it," said Love, 42. He thanked his parents and family "and people who may be feeling there's one fewer Love on Earth this Valentine's Day. But I'd like to assure them that it's great to be up here, and I'll be home soon."
- 2/15/2008 Drafi Deutscher's song "Marmor Stein und Eisen Bricht." The song's title translates as "Marble Breaks and Iron Bends." It was played for Mission Specialist Hans Schlegel, a European Space Agency astronaut from Germany.
- 2/16/2008 "I Believe I Can Fly" performed by Yolanda Adams and Kenny G and played for Mission Specialist Leland Melvin.
- 2/17/2008 "Hail Thee, Harvey Mudd," the Harvey Mudd College anthem written by Amy Lewkovicz for Mission Specialist Stan Love. Love is a 1987 graduate of the Claremont, Calif., private math, science and engineering college.
- 2/18/2008 "Over the Rainbow/What a Wonderful World," sung by Hawaiian-Japanese vocalist Israel Kamakawiwo'ole, accompanied by his ukulele for crew member Dan Tani. The song was chosen for Tani by his wife Jane and their two young daughters, Keiko and Lilly. "I can't wait to get back home," Tani said after hearing the tune. "I've had such a wonderful time here, but it's time to get back to my family."
- 2/19/2008 The *Spamalot* rendition of "Always Look on the Bright Side" played for Commander Steve Frick.
- 2/20/2008 "Hail to the Spirit of Liberty" by John Philip Sousa, for Pilot Alan Poindexter.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-122/html/ndxpage1.html>

- 3/11/2008 "Linus & Lucy" by Vince Guaraldi Trio. The song, which is from the album "Charlie Brown Christmas" was played for Mission Specialist Mike Foreman. "Good morning, Endeavour. And a special good morning to you, Mike," astronaut Al Drew radioed from the Johnson Space Center. "Well good morning, Houston, we appreciate that song," Foreman replied. "We had an exciting trip to orbit yesterday morning and we're looking forward to our first full day in orbit."
- 3/12/2008 The wakeup call for the morning was a combination of fight scene music from the Japanese movie "Godzilla Versus Space Godzilla" and the Blue Oyster Cult song "Godzilla." The songs were played for Japanese Space Agency astronaut Takao Doi. "Good morning Endeavour. Doi san, ohayo gozaimasu," said Alvin Drew, shuttle spacecraft communicator, to Japanese astronaut Takao Doi from Mission Control here in Houston. "Take on today like a monster." "We are very happy to hear Godzilla," Doi responded. "We are ready to go and we'll have a great time today docking with the space station."
- 3/13/2008 "Saturday Night" by Bay City Rollers, was played for the station's newest crew member, Flight Engineer Garrett Reisman. "Just want to say that the song was an outstanding selection. Thank you very much," said Reisman, who flew up aboard Endeavour and replaced European Space Agency astronaut Leopold Eyharts as outpost Flight Engineer 2. "We're all pumped up, and we're ready to go out the hatch, and doing it all and having a ball in space on Saturday night!"
- 3/14/2008 "Turn! Turn! Turn! (To Everything There is a Season)" by The Byrds. The song was played for Mission Specialist Rick Linnehan.
- 3/15/2008 "We're Going to be Friends" by the White Stripes. The song was played for Mission Specialist Robert L. Behnken. "Thanks for that, Al," Robert Behnken replied. "Good morning to you as well, and thanks for that great wakeup music, that's one of my favorite songs. It always reminds me of all the great friends that I've met going to different schools, or through different training, just like the shuttle crew I'm with right now. Thanks again, Al, and a great good morning to you." "You bet. Have a fine day out there."
- 3/16/2008 "God of Wonders" by "Caedmon's Call". The song was played for Endeavour's commander, Dominic Gorie.
- 3/17/2008 "Sharing the World," a song written by Pilot Gregory H. Johnson's brother.
- 3/18/2008 Ayaka Hirahara's "Hoshi Tsumugi no Uta", a Japanese song that translates to "Song of Spinning Stars". The song was played for Mission Specialist Takao Doi, a Japan Aerospace Exploration Agency astronaut.
- 3/19/2008 "Burning Love" by Elvis Presley, played for Mission Specialist Mike Foreman.
- 3/20/2008 "Blue Sky" by Big Head Todd and the Monsters, was played for Mission Specialist Rick Linnehan, who will serve as the spacewalk coordinator for today's 6.5-hour-long excursion by Mission Specialists Robert L. Behnken and Mike Foreman.
- 3/21/2008 "Enter Sandman" performed by Metallica. The song was played for Mission Specialist Robert L. Behnken.
- 3/22/2008 Heartland's "I Loved Her First". The song was played for Endeavour Commander Dominic Gorie.

- 3/23/2008 Newsboys song, "I am Free." The song was played for Mission Specialist Mike Foreman and performed by the Friendswood United Methodist Church Praise Team at his church. "Good morning, Endeavour and Happy Easter to you Mike," NASA astronaut Alvin Drew radioed up from Mission Control. "Good morning, Houston and thanks Alvin, that's one of my favorite songs from church," Foreman said. "That was awesome, and how appropriate for this special day. It sounds just as good up here as it does down there. Happy Easter." Drew wished the rest of Endeavour's astronauts a Happy Easter as well, though they were busy at the time. "They're probably searching for their eggs," Foreman said.
- 3/24/2008 "Furusato," a Japanese folksong that translates to "home" in English. The song was performed by Yuko Doi, and played for Japan Aerospace Exploration Agency astronaut Takao Doi.
- 3/25/2008 "Con Te Partiro" an Italian song that translates to "I will go with you." The song was performed by Andrea Bocelli and played for French astronaut Leopold Eyharts. "I'd like to see everybody back on Earth," Eyharts told flight controllers. "Thanks a lot for the music and see you very soon."
- 3/26/2008 "Drops of Jupiter" by Train was played for Pilot Gregory H. Johnson.  
<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-123/html/ndxpage1.html>

## As Ariz. Congresswoman Watches, Husband Heads Into Orbit (AZREP)

By John Faherty

[Arizona Republic](#), June 1, 2008

...This will be [Space Shuttle Discovery Commander Mark] Kelly's third flight into space. On his second mission, in July 2006, when he piloted the space shuttle Discovery, Kelly and [Gabrielle] Giffords [U.S. representative from Arizona's 8th Congressional District] were dating but not yet engaged. During shuttle flights, the close friends and family of astronauts are allowed to choose the music that will wake the pilots from sleep in space.

In 2006, Giffords chose Beautiful Day. "I'm a big U2 fan, and he likes the band as well," Giffords said. That morning the music was a surprise, but marriages seemingly change everything.

For this flight, Giffords has selected songs to wake the crew on two days. "Crystal Frontier" by the Tucson-based band Calexico and the reveille, the bugle call used to wake students at the U.S. Merchant Marine Academy, where Kelly went to college.

He already knows what will be playing this time. "After you are married, it's hard to keep a secret," Giffords said with a laugh. "He didn't know about U2, but he knows this." ...

|           |  |
|-----------|--|
| 6/1/2008  | "Your Wildest Dreams" by the Moody Blues. The song was played for Pilot Ken Ham.   |
| 6/2/2008  | "Away from Home" performed by Jose Molina Serrano. The song was played for Mission Specialist Greg Chamitoff.  |
| 6/3/2008  | "Hold Me with the Robot Arm" performed by Yusuke Hanawa. The song was played for Japan Aerospace Exploration Agency astronaut Aki Hoshide.   |
| 6/4/2008  | "Have You Ever" performed by Brandi Carlile. The song was played for Mission Specialist Karen Nyberg.  |
| 6/5/2008  | "Fly Away" by Lenny Kravitz was played for Mission Specialist Ron Garan.   |
| 6/6/2008  | "Bright as Yellow" by Innocence Mission was played for Mission Specialist Karen Nyberg.  |
| 6/7/2008  | "Taking Off" by Godaigo was played for Mission Specialist Akihiko Hoshide.   |
| 6/8/2008  | The theme music from "The Mickey Mouse Club" was played for the STS-124 crew.  |
| 6/9/2008  | "The Spirit of Aggieland" performed by the Fightin' Texas Aggie Band was played for Mission Specialist Mike Fossum.  |
| 6/10/2008 | "All Because of You" by U2 was played for Mission Specialist Ron Garan.  |
| 6/11/2008 | "Centerfield" by John Fogerty was played for Pilot Ken Ham. Mission Control here roused the astronauts early Wednesday with the song "Centerfield" by John Fogerty, a tune selected for Ham by his wife Michelle. "Girl, you are my home, and all of us are going to start our journey home today," Ham told his wife via Mission Control as the shuttle and space station zipped around the planet at 17,500 mph (28,163 kph). "From my rough calculations, that's about a million miles, but we're going really fast so we're on our way." |
| 6/12/2008 | "Crystal Frontier" by Calexico was played for Commander Mark Kelly.  |
| 6/13/2008 | "Baby, Won't You Please Come Home" performed by Louis Prima and Keely Smith, selected by Mr. Reisman's wife, was played for Mission Specialist Garrett Reisman. Mr. Reisman thanked the people on the ground for the song, and said "A special good morning to Simone, my favorite earthling." He added, "Get ready, doll face: Discovery's coming home."  |

6/14/2008

“Life on an Ocean Wave” performed by the U.S. Merchant Marine Academy Band was played for Commander Mark Kelly and the entire crew.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-124/html/ndxpage1.html>

## INTERNATIONAL SPACE STATION (ISS)

...only a shuttle crew receives wake up music while a space station crew uses an alarm clock.

From: <http://spaceflight.nasa.gov/living/spacesleep/index.html>

"Crew members will be allowed to take a certain amount of personal gear up with them," said Lu. "So things like checkers or chess sets, CDs and tape players, and the like are allowed. You can listen to your favorite music if you like. DVD movies will also be available for viewing."

Edward Lu

From: [http://www.science.nasa.gov/headlines/y2000/ast29nov\\_1.htm](http://www.science.nasa.gov/headlines/y2000/ast29nov_1.htm)

The station's Russian-built crew quarters is outfitted with only two small "staterooms." About the size of broom closets, the so-called "kayudas" feature porthole windows that face Earth.

The temporary sleep station is a hollow lab rack outfitted with a ventilation system, radiation protection, lights and electrical outlets for laptop computers or CD and DVD players.

From: "Moving Van Mounted to Station, Change of Command Underway"

By Todd Halvorson , August 13, 2001 *Space.com*

And we actually can listen to music. We have speakers in the – in the service module, and also in the node where we can listen to whatever tunes we would like to listen to, and we also have a little CD players, private ones, that we can listen to with headphones in our little cabins...

Carl Walz

Interview of Dan Bursch, Yury Onufrienko, and Carl Walz, Astronauts

Leon Harris, Miles O'Brien January 3, 2002 *CNN: Live This Morning*

February 2, 2002 – Elvis, also known as Carl Walz, treated the teachers to a new version of "Heartbreak Hotel" during a live videoconference between teachers attending ISSEC and the Expedition Four Crew during ISS Educator Conference at Space Center Houston. "Well since I left my baby; I found a new place to dwell. It's 400 kilometers in the air. It's called space station Alpha. But baby it's lonely. Oh, it's so lonely. But I'll be back in May. Ohhhhhhh, yeah."

<http://www.greenbush.org/MSSWeb/Stargazer7.htm>

It turns out that music plays a big role. You know, of course, we have, CDs that we play when we work out, when we ride the bikes and exercise, or just to have on while we're living in space and of course we also brought along some musical instruments. It so happens that I have a small keyboard up here...And, so I can play that as well here, and we also have a guitar as well, so I've been learning how to play the guitar. I play the keyboard back home but the guitar is a new thing that I've picked up here in my free time.

Carl Walz from *E-Town* radio show broadcast May 9, 2002 – "ISS Interview"

*Astronaut Ellen Ochoa, a classical musician, brought her flute as one of her personal items on her first shuttle flight. She only got to play it once, though, and that was as part of an educational video for school kids. On short shuttle flights, she explains, astronauts are so busy that they really don't have much time to play an instrument. "For a shuttle flight, it's probably more of a sentimental thing, a memento for people who have had music as a serious hobby."*

*But on long duration stints onboard the station, "you do have a fair amount of free time," says Walz, "especially on Sundays." There's more opportunity to take out an instrument and play.*

*"It's a link to home," says Walz, who plays for his hometown church, sings in the astronaut band, is known for his Elvis imitations, and, during his time on station not only played the keyboard, but also found the time to teach himself some guitar. Walz thinks that link is important. "Some guys might disagree, and say, 'well, you know, you want to cut all those links.' But I prefer to have them." No matter how long an astronaut remains in space, he says, "we all know we're going back to Earth. We know we're going back to that life..."*

*"In long duration," says Ochoa, "you want to prepare yourself for being away a long time. One of the things you want to do is to carry on with activities that are important to you on the ground. A lot of those, you can't. But whenever you can--and playing a musical instrument is an example -- people sure like to do that."*

*"The strangest thing about playing music in space," says Carl Walz, "is that it's not strange. In most homes, there's a musical instrument or two. And I think it's fitting that in a home in space you have musical instruments as well. It's natural."*

*"Music makes it seem less like a space ship, and more like a home."*

*"Space Station Music" [http://science.nasa.gov/headlines/y2003/04sep\\_music.htm](http://science.nasa.gov/headlines/y2003/04sep_music.htm)*

*"We have a small piano up here. It's an electronic piano, and I like to play the piano in my spare time," Lu explained to the 124 space campers at Space Center Turkey in Izmir during a July 14 contact arranged as part of the Amateur Radio on the International Space Station program.*

*"Ed Lu is "The Piano Man" Aboard the ISS "*

*<http://www.arrl.org/news/stories/2003/07/23/1/?nc=1> July 23, 2003*

*This Sunday, the Expedition 12 crew aboard the international space station received a special treat -- a live musical wakeup call from Paul McCartney during a first-ever concert linkup. The wakeup call, during which McCartney performed "Good Day Sunshine" and "English Tea," came from McCartney's "US" Tour performance at the Anaheim, Calif., Arrowhead Pond. It was broadcast live on NASA TV.*

*NASA News 11/13/05*



*ANAHEIM, Calif. -- It was "Good Day Sunshine" for the international space station crew Sunday morning. NASA astronaut Bill McArthur and Russian cosmonaut Valery Tokarev were treated to a live wake-up call of the Beatles classic in a first-ever concert linkup to the space station.*

*On Earth, former Beatle Sir Paul McCartney performed the hit and another song, "English Tea," on Saturday night before a cheering crowd as part of his 11-week "US" tour.*

*The performance was beamed from the West Coast to the space station crew 220 miles above Earth and broadcast on NASA television, which showed live feeds from space.*

*McArthur and Tokarev bobbed up and down and sipped from squeeze pouches through the show, getting a rousing cheer from the audience.*

*"I can't believe that we're actually transmitting to space!" McCartney said. "This is sensational. I love it." McArthur, who did a couple flips, noted McCartney's creative achievements and thanked him for playing the songs.*

*"That was simply magnificent," McArthur said. "We consider you an explorer just as we are."*

*It is a tradition to wake astronauts up with recorded songs, but this marked the first time astronauts listened to live music from space.*

*The rock icon came up with the idea after learning that NASA's Mission Control used "Good Day Sunshine" to wake up the Space Shuttle Discovery astronauts in August with word that conditions were favorable to return to Earth.*

*The wake-up call marked the space station crew's 44th day of a planned six month mission in space.*

### **Paul McCartney Sings to Space Station Crew**

The Associated Press

Sunday, November 13, 2005

## MARS PATHFINDER & SOJOURNER ROVER

### Sol

- 4 “The Final Frontier” Paul Reiser, Don Was (Theme from “Mad About You”)  
*The team sent their "wake up call" to Mars as a joke (it's not like a spacecraft would need music) and the team enjoyed it enough that it became a tradition. The "Mad About You" production office was surprised by the choice and put out a press release noting the unusual use for their theme song. They even used a clip of the Mars team playing the music in the end credits of one of their shows. PC*
- 5 “Three Little Birds” Bob Marley
- 6 “In the Mood” Glenn Miller (with live accompaniment by Chief Engineer Rob Manning)
- 8 “Coisinha Do Pai” Brazilian Samba
- 12 “You’ve Got a Friend” Randy Newman
- 13 “Follow You, Follow Me” Genesis
- 14 “Also Sprach Zarathustra” Richard Strauss (Theme from “2001: A Space Odyssey”)
- 17 “Roll to Me” Del Amitri
- 18 “Let the Good Times Roll” Ray Charles
- 19 “So Far Away” Dire Straits
- 20 “Life in the Fast Lane” Eagles
- 21 “Ride of the Valkyries” Richard Wagner
- 22 “Wild, Wild Life” Talking Heads
- 23 “Theme from Rawhide” Blues Brothers
- 24 “Radar Love” Golden Earring
- 25 “Wise Up” Bim Skala Bim
- 26 “Dreams” Van Halen
- 27 “I’ll Be There For You” Rembrandts (Theme from “Friends”)
- 28 “Long Distance” Kinks
- 29 “Learning to Fly” Pink Floyd
- 30 “The Way You Look Tonight” Frank Sinatra  
“Fantastic, That’s You” Louis Armstrong
- 32 “Love Me Like a Rock” Paul Simon
- 33 “You’ve Made Me So Very Happy” Blood, Sweat and Tears
- 34 “Let Your Fingers Do the Walking” Sort Sol
- 35 “The World is Waiting for the Sunrise” Gene Lockhart (father of June Lockhart of “Lost in Space”)
- 36 “Obscured By Clouds” Pink Floyd
- 37 “Where the Streets Have No Name” U2
- 39 “Mars Rovin’” Tempus Fugit and the Time Travellers

## MARS SPIRIT AND OPPORTUNITY

*The function of the Wake-Up Music is as it would suggest, to 'wake-up' the mission team and get them focused on the days activities. As we will see the selection is often a little bit tongue-in-cheek. The music was originally played for the team around the time that the "sweep" was transmitted to the Rover shortly after it woke up. This sweeps the transmit frequency so the Rover's receiver can lock onto it. This occurs at around 8.45AM local time (at the landing site). However this meant the song was being played before many of the team members came-in, so the time was subsequently shifted to 10AM local time. By this time most of the crew are on station and ready to begin the Sol's activities. Sol is the term for a Martian 'Day'. One Martian Sol is 39.5 minutes longer than one Earth Day.*

*The song (sometimes songs) for each Sol are typically chosen by the Mission Managers, in the case of Spirit this is Dr. Mark Adler. The songs are chosen for a link they have with the planned activities for the day.*

**NASA Gets Into the Groove!** From **Above Top Secret News Network**, February 21, 2004

The eclectic playlist is Mars rover Spirit mission manager Mark Adler's way of waking exhausted engineers and scientists who are working and sleeping on Mars time and dealing with a sometimes temperamental rover millions of miles away... Below is the Spirit playlist, along with some explanations by Adler for why the songs were chosen. A sol is a Martian day, slightly longer than a day on Earth at 24 hours, 37 minutes. From: **Mars Rocks! Eclectic Music Moves Rover Mission.** By Robert Roy Britt February 26, 2004, **Space.com and Jet Propulsion Laboratory Rover Daily Updates.**

### Spirit's playlist:

- Sol 2: Good Morning, Good Morning, by the Beatles.
- Sol 3: Oh What a Beautiful Mornin', by Rodgers and Hammerstein.
- Sol 4: Hail to the Chief, by the Mormon Tabernacle Choir. (Presidential phone call.)
- Sol 5: Satisfaction, by the Rolling Stones. ("I can't get no ...", Air bags not cooperating.)
- Sol 6: Get Up, Stand Up, by Bob Marley. (Lift mechanism actuated.)
- Sol 7: Da Da Da, by Casaca. (Brazilian song suggested by investigator from Brazil, RRGTM student that week from Brazil.)
- Sol 8: Soak Up the Sun, by Cheryl Crow. (Laid-back sol.)
- Sol 9: I Can See Clearly Now, by Jimmy Cliff. (Picture taking sol.)
- Sol 10: Unchained, by Van Halen; Hit the Road Jack, by Buster Poindexter; Turn, Turn, Turn, by the Byrds. (Cable-cutting, backup on landing deck. start turn on deck.)
- Sol 11: I Get Around, by the Beach Boys; Round and Round, by Ratt; You Spin Me 'Round, by Thalía. (Rest of turn on landing deck.)
- Sol 12: Born to be Wild, by Steppenwolf; Rawhide, by Riders in the Sky; Who Let The Dogs Out?, by the Baha Men. (Egress.)
- Sol 13: Reach Out, by the Four Tops. (First robotic arm activity.)
- Sol 14: You've Got The Magic Touch, by the Platters. (Touching robotic arm down on Mars.)
- Sol 15: If You Love Somebody Set Them Free, by Sting; Roam, by The B-52's; Good Times Roll, by The Cars. (Last engineering activities, first drive on the surface.)
- Sol 16: After Midnight, by Eric Clapton; Trash Day, by Weird Al Yankovic. (Crew starts Mars day after California midnight, part of the sol dedicated to deleting contents of flash.)
- Sol 17: We Will Rock You, by Queen. (First arm activities and observations on a rock.)
- Sol 18: Sledgehammer, by Peter Gabriel. (Intended first [Rock Abrasion Tool] RAT sol, though ran into problems later, to put it mildly.)
- Sol 19: S.O.S., by Abba. (Objective was to regain contact with Spirit after a loss of communications. We did.)
- Sol 20: Baby, Talk to Me, from the musical Bye Bye Birdie. (Objective was to get Spirit to send data. She did.)
- Sol 21: Satellite, by The Hooters. (A rousing lullaby for when we were trying, and succeeded, to get the rover to go to sleep.)

Sol 22: We Can Work it Out, by The Beatles. (Beginning debugging activities to get Spirit back to normal.)

Sol 23: Start Me Up, by the Rolling Stones. (Booting in crippled mode.)

Sol 24: Flash, by Queen. (Clearly a flash problem, continuing to debug.)

Sol 25: (You're The) Devil In Disguise, by Elvis Presley, and With a Little Help From My Friends, by The Beatles. (Continuing debug, got picture!)

Sol 26: I Want a New Drug, by Huey Lewis & The News. (Trying yet another recipe for getting task trace, still didn't work.)

Sol 27: Anticipation, by Carly Simon. (Seeing if the file deletes will do the trick or not. They did.)

Sol 28: On the Road Again, by Willie Nelson. ("Can't wait to get back on ...", back to normal use of the flash file system, itching to get going.)

Sol 29: Here Comes the Sun, by The Beatles. (More normal operations, Mars Express coordinated overflight.)

Sol 30: Lean On Me, performed by Club Nouveau. (Intended RAT brush sol, pressing RAT on rock, though activities did not complete.)

Sol 31: I Wanna Be Sedated, by the Ramones. (Very low activity sol to get the rover rested and ready for surgery on the following sol.)

Sol 32: Wipe Out, by The Surfaris, and We're Not Gonna Take It, by Twisted Sister. (File system reformat.)

Sol 33: Back In the Saddle Again, by Gene Autry, and The Star Spangled Banner, performed by Beyoncé. (Back to normal operations, color flag picture on RAT.)

Sol 34: The Laundry Cycle: Pounded on a Rock, by The Bobs, and Bump N' Grind, by R. Kelly. (First RAT grinding.)

Sol 35: Up Around the Bend, by Creedence Clearwater Revival. (Intended drive around lander to begin drive to crater. Didn't get anywhere though.)

Sol 36: Stuck On You, by Elvis Presley. (Drive didn't work yestersol -- we've been stuck here for weeks. Drive did work later that sol.)

Sol 37: Proud Mary, performed by Tina Turner. ("And we're rolling, rolling, rolling on the river ...", first long drive, ended up being more than 20 meters.)

Sol 38: Runnin' With the Devil, by Van Halen. (HGA [High Gain Antenna] problem that sol, no activities, song played late in the sol.)

Sol 39: Hit the Road Jack, by Buster Poindexter. (Another long drive -- yes, this is a reuse of that song.)

Sol 40: What a Wonderful World, by Louis Armstrong. (Mars, that is.)

Sol 41: Open Road Song, by Eve 6. (Driving song, though only did several inches of driving to position in front of rock.)

Sol 42: Lift Up Every Stone, by John Hiatt. (Observations of the rock "Mimi".)

Sol 43: Livin' On a Prayer, by Bon Jovi. (Many sols tend to start with our fingers crossed.)

Sol 44: Way Over Yonder, by Carole King. (Heading for that crater.)

Sol 45: Touch Me in the Morning, by Diana Ross. (Touch and go sol.)

Sol 46: Wake Up Little Susie, by The Everly Brothers. (Generic wakeup song.)

Sol 47: Dig Down Deep, by Hot Soup. (Trenching sol.)

Sol 48: Working in the Coal Mine, by Devo. (Working in the trench.)

Sol 49: Coisinha Do Pai, by Beth Carvalho. (Brazilian song played on Mars Pathfinder, played again for Carnival weekend.)

Sol 50: Samba De Marte, by Beth Carvalho. (Brazilian song written by same artist inspired by use of previous song on MPF, this one is a "Mars Samba", also for Carnival weekend. Starts off "Hello NASA!".)

Sol 51: Chariots of Fire, by Vangelis. (Appropriate for slow-motion races.)

Sol 52: Cold as Ice by Foreigner.

Sol 53: Dust in the Wind by Kansas, with the anticipation of possibly capturing dust devils spinning across the Martian surface.

Sol 54: Big Rock in the Road by Pete Wernick as it made its final approach to the imposing rock called "Humphrey."

Sol 55: Brush Your Teeth by Cathy Fink and Marcy Marxer, and Knock Three Times by Tony Orlando and Dawn.

Sol 56: Walking On Sunshine performed by Jump 5.

Sol 58: I Still Haven't Found What I'm Looking For" by U2 to pay homage to its twin rover's amazing findings of water evidence at Meridiani Planum.

Sol 59: One More Time by The Real McCoy.

Sol 60: Pictures to Prove It by the Mighty Mighty Bosstones.

Sol 61: Motor Away by Guided by Voices.

Sol 62: My First Trip to Mars," by Atticus Fault.

Sol 66: Livin' on the Edge by Aerosmith since Spirit is at the edge of Bonneville crater.

Sol 67: On Top of the World by the Carpenters. The song was fitting, as yestersols's drive put Spirit at the rim of "Bonneville" crater, but it took some additional maneuvering to get the rover perfectly placed for the 360-degree panoramic camera images it will take on upcoming sols.

Sol 69: Watching the Wheels by John Lennon.

Sol 77: "One Step Closer" by the Doobie Brothers, since the rover was to make its final approach to the rock target named "Mazatzal" today.

Sol 80: "Open the Door" by Otis Redding.

Sol 81: "Boy from New York City" by The Manhattan Transfer, in honor of the grind on the New York target.

Sol 98: "Where Is My Mind?" by The Pixies in honor of its software transplant.

Sol 109: "(Take me) Riding in my Car" by Woody Guthrie.

### **Opportunity's playlist:**

- Sol 2: So Happy Together, by the Turtles (First full sol with both rovers on Mars.)
- Sol 3: The Spirit of Radio, by Rush (HGA release.)
- Sol 4: n/a
- Sol 5: Stand, by REM; I'm Still Standing, by Elton John (Standup.)
- Sol 6: Lookin' Out My Back Door, by Creedence Clearwater (Revival.); Release Me, by Elvis Presley (Middle wheel release); Born to Run, by Bruce Springsteen (Wake up.)
- Sol 7: I'm Free, by The Who (Cable Cut #3); Going Mobile, by The Who (Egress.)
- Sol 8: You Ain't Seen Nothing Yet, by Bachman-Turner Overdrive (First dual surface nominal rover operation.)
- Sol 9: I'm Coming Out, by Diana Ross (IDD release.)
- Sol 10: Pictures of You, by The Cure (First MI image.)
- Sol 11: Please Please Tell Me Know, by Depeche Mode (First MB data readout of soil.)
- Sol 12: I'm Leaving Here, by Motorhead (First drive since egress.)
- Sol 13: Little Honda (aka First Gear), by the Beach Boys (Jaunt away from lander.)
- Sol 14: Should I Stay or Should I Go, The Clash (We went.)
- Sol 15: The Flintstones Theme Song, end credits, Version 2 from 1962 (For the arrival at the "bedrock.")
- Sol 16: Slip Slidin' Away, by Paul Simon (Large slips along drive up to the outcrop.)
- Sol 17: Wake Me Up, by Wham (Touch and go.)
- Sol 18: Running Down a Dream, by Tom Petty and the Heartbreakers (Drive along the outcrop.)
- Sol 19: Here I Go Again, by Whitesnake (Repeat of sol 18 drive objective.)
- Sol 20: I Like Dirt, by Red Hot Chili Peppers; The Pioneers of Mars, by Landa/Linsley (MI/MB and drive.)
- Sol 21: Send Me On My Way, by Rusted Root; Desert Drive, by Tangerine Dream (Drive back to El Capitan.)
- Sol 22: Invisible Touch, by Genesis (MI-MB placement.)
- Sol 23: Spinning Wheel, by Blood, Sweat, and Tears (Right front trenching wheel.)
- Sol 24: Trench Town Rock, by Bob Marley (Make use of the trench.)
- Sol 25: Fascination, by Human League (Regarding the img return from the trench.)
- Sol 26: Body Movin', by the Beastie Boys (Every rover part exercised.)
- Sol 27: Touch and Go, by Emerson, Lake and Powell (Touch and go.)
- Sol 28: I am a Rock, by Simon and Garfunkel (El Capitan target assessment.)
- Sol 29: Riders on the Storm, by the Doors (Heavy weather at DSS-63 and DSS-14.)
- Sol 30: Rock 'n Me, by Steve Miller Band (1st RAT on opportunity.)
- Sol 31: Rock around the Clock, by Bill Haley and His Comets (APXS/MB.)
- Sol 32: Let It Be, by the Beatles (Long MB integration -- no IDD or mobility.)
- Sol 33: Blueberry Hill by Fats Domino, in honor of the hill in front of the rover.
- Sol 34: Dig In by Lenny Kravitz.
- Sol 35: I Can See Clearly Now by Jimmy Cliff.
- Sol 36: Rock Steady by Sting.
- Sol 37: Let's Go by the Cars.
- Sol 38: Have You Ever Seen the Rain? by Creedence Clearwater Revival in honor of the confirmation that liquid water once flowed through the rocks at Meridiani Planum.
- Sol 39: Bad Moon Rising" by Creedence Clearwater Revival in honor of the eclipse caused by the Martian moon Deimos.
- Sol 41: On the Road Again by Willie Nelson.
- Sol 43: "You Can Look (But You Better Not Touch)" by Bruce Springsteen in recognition of the fact that the rock abrasion tool grind did not touch the surface of its rock target on sol 42.
- Sol 44: "Try (Just a Little Bit Harder)" by Janis Joplin for the rock abrasion tool's second attempt at "Mojo 2," and "X-ray Eyes" by Kiss for the alpha particle X-ray spectrometer.

Sol 45: "Eclipse" by Pink Floyd in recognition of the transit of the martian moon, Phobos. A second song, "Meet Me Halfway" by Kenny Loggins, was played because Opportunity is halfway through its primary 90-sol surface mission.

Sol 46: The wakeup songs were "Berry Nice News" by Raffi and "Huckling the Berries" by Country Cooking in honor of researching the mysterious "blueberries" with the instruments on the robotic arm.

Sol 47: "No Particular Place to Go" by Chuck Berry in recognition of the stay at "Berry Bowl."

Sol 48: Jaws: Main Title and Fist Victim by John Williams.

Sol 50: The Dentist by Bill Cosby, in honor of the toothy targets in "Shark's Cage."

Sol 51: Song of the South by Alabama.

Sol 53: Ice Cream Man by John Brim woke Opportunity this sol to remind it of the possible sweet treats that await at targets referred to as "Chocolate Chip" and "Coconut" in the neighborhood dubbed "Mudpie."

Sol 54: I Feel The Earth Move" by Carole King.

Sol 56: Fly Like an Eagle by the Steve Miller Band.

Sol 57: "If You Don't Get it the First Time, Back Up and Try it Again" by the JB's and Fred Wesley.

Sol 58: "Come on Home" by Lambert, Hendricks and Ross beckoned Opportunity back toward its landing site crater to an area of bright material.

Sol 59: "59th Street Bridge Song (Feeling Groovy)" by Simon and Garfunkel.

Sol 60: "The Circle of Life" by Elton John in honor of the Lion King panorama.

Sol 64: "Stand" by REM.

Sol 65: "Back in the Saddle" by Aerosmith.

Sol 66: "Bounce" by Bon Jovi. Opportunity's rock abrasion tool ground into "Bounce" for just over two hours.

Sol 67: "Changes" by David Bowie.

Sol 68: "Got to Go Back" by Van Morrison.

Sol 69: "Little Maggie" by Tom Adams, chosen for the soil target named "Maggie."

Sol 70: "Truckin'" by The Grateful Dead.

Sol 72: "The Wanderer" by Dion and the Belmonts.

Sol 73: "Let the Good Times Roll" by B.B. King - a nod to Spirit's successful primary mission of 91 sols and a call for more good times during the coming sols.

Sol 79: "Teenage Lobotomy" by Ramones. Opportunity began operating with new flight software.

Sol 82: "I Would Walk 500 Miles," by Less Than Jake (originally by the Proclaimers).

Sol 85: "Take Me Out to the Ball Game!" by Jack Norworth in honor of all the baseball-related target names chosen this sol.

Sol 101-102: "Morning has Broken" by Cat Stevens; "Hallelujah Chorus" from George Frederic Handel's Messiah; and "Dazed and Confused" by Led Zeppelin.

## SOURCES

Ezell, Edward Clinton and Ezell, Linda Neuman, "The Partnership: A History of the Apollo-Soyuz Test Project", 1978, SP-4209.

Mars Pathfinder Sojourner Rover Wake-up Song

list:<http://mpfwww.jpl.nasa.gov/MPF/rover/roversongs.html>

JSC Space Shuttle Wakeup Calls Website: <http://spaceflight.nasa.gov/gallery/index.html>

MCC Status Reports

*The Mission Transcript Collection: U.S. Human Spaceflight Missions from Mercury Redstone 3 to Apollo 17* (SP-2000-4602, 2001).

Skylab and Space Shuttle Air-to-Ground Transcripts and PAO Commentary

NASA Headquarters *Current News*

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NASA Audio Highlights Tapes

JSC Audio Control Room

NASA Johnson Space Center Video Repository

Philip Chien, author of "Columbia - Final Voyage; The Last Flight of NASA's First Space Shuttle". <http://www.sts107.info>

(Philip Chien's contributions to the Chronology are italicized and followed by "PC".)

Space Shuttle Gallery Audio online