

CHRONOLOGY OF WAKEUP CALLS

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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 (sic) crew, whose spacecraft was named "America," [This is a mistake. "America" was actually the name of the Apollo 17 command module and this letter meant to refer to the Apollo 17 wakeup call. Also, the formal tradition actually began with Apollo 10.] 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>

There were no formal wakeup calls sent to the crews of Mercury and Gemini. The missions in the early years of the human space program were relatively short. It was not until Gemini 7 that long term endurance really began to be tested since it lasted almost two weeks. During this mission and during Gemini 9 and 12 Mission Control piped the crew music during periods of relative inactivity, often in batches. Only some of it was sent at the end of the sleep period. I have included anything that I have found since it is the genesis of the concept, a concept not fully realized until the Apollo Program . The wakeup tradition seemed to begin in earnest and be sent on a regular basis only after Apollo 10. Specifically why this mission was selected is undetermined. Of course, you will ask why Apollo 11 is missing. Actually wakeup calls were sent on Apollo 11, but they were not music, they consisted of news and sports. I have usually only included music in this chronology, the exceptions being some interesting examples during the Space Shuttle Program.

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 6th 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 Fantastics, “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 "Moonlight Becomes You"

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 No wakeup call sent. Crew awakened by their alarm.
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

Short excerpt from an old Spike Jones record followed by a comic tape with voices of Houston DJs Hudson and Harrigan kidding Young and Crippen, then “Reveille”. “It's splashdown, and Crip, you could both use a shower,” said one member of the radio team. “You've waited for this for 12 years and if you don't wake up you're going to miss the whole darn thing.” “Crip,” said one voice, “get out of the rack.” “No, no, no,” said the other. “If he wakes up he'll spill coffee all over the controls.” “Get to work, you guys. You've got 300 government agencies out there to support.” Then Mission Control came back on the line. “Now hear this, now hear this, reveille, reveille, up all idlers. And that last wakeup call, we'd like you to scratch out ‘splashdown’ and insert ‘touchdown,’” said Mission Control.

STS-2 November 12-14, 1981

11/13/81

“Pigs in Space” comedy routine #1 by The Muppets (arranged by Sally Ride).

11/14/81

“Pigs in Space” comedy routine #2 by The Muppets (arranged by Sally Ride), 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 Nagel 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.
Mattingly responded: "Good afternoon, we love that tune." He added, "Found out something up here though, you can't stomp your feet to it." Both astronauts are graduates of Auburn University.
- 6/30/82 Pilot Henry (Hank) Hartsfield's 25th wedding anniversary and on this first air/ground pass of the day, he received taped messages from his two daughters and his wife.
- 7/1/82 The astronauts got a wake-up call at 1:10 a.m. today from Houston control as the ship was passing over the Dakar, Senegal, tracking station. *Columbia* was making its 59th orbit at the time. There was no response at first from the crewmen, but mission control reported that engineering data showed the pilots were operating their food warmer for breakfast. Mattingly finally responded with a cheerful, "Good morning."
- 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 "Cotton-eyed 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"
- 9/1/84 "Telstar" by The Ventures
- 9/2/84 "Top of the World"
- 9/3/84 Unidentified
- 9/4/84 Unidentified
- 9/5/84 No wakeup call sent because crew woke early to handle a cryo leak.

STS-41-G October 5-13, 1984
 10/6/84 “Flashdance - What A Feeling” Irene Cara
 10/7/84 Unidentified
 10/8/84 Unidentified
 10/9/84 Theme from the film “Rocky”
 10/10/84 “Navy Wings are Made of Gold”
 10/11/84 “Take Me Home, Country Roads” John Denver
 10/12/84 Theme from film “Star Wars”
 10/13/84 “Boomer Sooner” the Oklahoma Fight Song

STS-51-A November 8-16, 1984
 11/9/84 “Good Morning Starshine”
 11/10/84 “Marine Corps Hymn” for the 209th birthday of the U.S. Marine Corps
 CAPCOM: Dave Hilmers
 11/11/84 Theme from film “Victory at Sea” Followed by crew playing “Who Will
 Buy?” by Barbra Streisand
 11/12/84 “The Eagle and the Hawk” by John Denver. Crew responds with “Entry of
 the Gladiators” by composer Julius Fucik
 11/13/84 Crew did not get wakeup call. They play “Listen to the Music” for Houston
 Mission Control
 11/14/84 Theme from the movie, “For a Few Dollars More” followed by “Stars and
 Stripes Forever”

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. Crew responded
 with “Rocket Man” and “Chariots of Fire”
 11/16/84 Theme from TV show “Peter Gunn”

STS-51-C January 24-27, 1985
 DoD Classified Mission with news blackout - NOTHING FOUND

STS-51-D April 12-19, 1985
 4/13/85 “Top of the World” by The Carpenters
 4/14/85 “Stargazer” by Neil Diamond
 4/15/85 “Skybird” by Neil Diamond
 4/16/85 “Rescue Aid Society” from the Disney film, “The Rescuers”
 4/17/85 “Ride of the Valkyries” by Richard Wagner
 4/18/85 “Rocket Man” by Elton John
 4/19/85 “America” by Neil Diamond

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 “Eye in the Sky” by Alan Parsons Project

6/19/85 “I Feel the Earth Move” by Carole King
CAPCOM: Bob Springer

6/20/85 “Oklahoma”

6/21/85 “Proud Mary” by Creedence Clearwater Revival
CAPCOM: David Leestma

6/22/85 “Sailing” by Christopher Cross
CAPCOM: David Leestma

6/23/85 **First Wakeup:** Untitled Saudi Arabian music; Theme from movie,
“Jonathan Livingston Seagull” by Neil Diamond.
CAPCOM: David Leestma
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 Leestma

STS-51-F July 29-August 6, 1985
The flight crew was divided into a *red and blue team*. Each *team* worked 12-hour shifts for 24-hour-a-day operation. Therefore, no wakeup calls were sent.

STS-51-I August 27-September 3, 1985

8/28/85 “Waltzing Matilda” awakened the crew as they passed over Australia.
CAPCOM: David Leestma

8/29/85 “Over the Rainbow” from “The Wizard of Oz” by Judy Garland. When
a high-pitched voice from mission control said, “Joe Henry, I don’t think
we’re in Kansas anymore,” Engle laughed and replied: “I think you’re right.”
CAPCOM: David Leestma

8/30/85 “I Saw the Light” by Willie Nelson
CAPCOM: David Leestma

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.

11/27/85 Unidentified

11/28/85 Unidentified

11/29/85 “America the Beautiful”

11/30/85 Unidentified

- 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
- 1/13/86 Unidentified
- 1/14/86 "Heart of Gold" by Neil Young
- 1/15/86 Unidentified
- 1/16/86 Unidentified
- 1/17/86 Unidentified
- 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 Brass band rendition of the "Marine Corps Hymn" - tribute to mission specialists Bob Springer and Jim Buchli. "We got two Marines standing at attention up here," said Captain Coats.
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 Classified 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 Classified 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). It was a reminder that Columbia originally was to have been in orbit at Christmastime and that the astronauts had promised to bring the satellite back as a holiday gift to all those with experiments on board.
Written and recorded by "The Prox Ops Boys", Dave Thompson, Mark Schrock, Brian Bertrand, Steve Walker, Ted Rickerl, and Greg Schrage.
- 1/12/90 From the Mission Operations Directorate's Orbit Dynamics (aka Prox Ops) Office
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 The astronauts took time out for a little fun Saturday afternoon, playing the song "Attack of the Killer Tomatoes" from the movie of

- the same name as they showed Mission Control a drawing of LDEF wildly entwined in tomato vines. It referred 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) "That was provided by local alumni of a school you know pretty well," said Mission Control's Ken Bowersox.
"Yeah, there's a lot of Damers down there," said Wetherbee, a 1974 graduate of the school in aerospace engineering.
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 47th 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". "Hi Dan. This is Larry Bird. Congratulations to you and the crew on the slam dunk with LDEF," referring to its rescue last week. He ended with, "Happy birthday and have a safe landing." Astronaut Kenneth Bowersox in mission control then said: "Good morning, Columbia, and a happy birthday to Danny boy."
- 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. "We're ready to rock and roll!" Wetherbee radioed referring to the return to Earth.
- 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 Classified 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 Classified 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. She is a big Selleck fan. "Good morning, and a special wakeup to Linda," the message said. "This is Tom Selleck and I hope you had a nice night's sleep, but it's time to get up and go to work."
- 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 (frogs, crickets, etc.)
- 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 "It's Time to Love (Put a Little Love in Your Heart)" by James Brown
- 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
- 10/25/92 Unidentified
- 10/26/92 "The World is Waiting for the Sunrise" written by Gene Lockhart and performed by Les Paul and Mary Ford. "His daughter June -- who needs no introduction, I'm sure -- is in the (Mission Control) viewing room this morning and sends her best wishes," Mission Control said. "Well, great. Thanks a lot. We'll have to see if we can learn that song" shuttle commander James Wetherbee replied. June Lockhart was one of the stars of the TV show, "Lost in Space."
CAPCOM: Don Thomas
- 10/27/92 "Birthday" by The Beatles in honor of Pilot Mike Baker's 39th birthday
- 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. In honor of Halloween Mission Control included a pattern for a cutout mask in flight plans radioed to the shuttle. The mask was of Moe of the Three Stooges.
- 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. The astronauts, who nicknamed themselves "the dogs of war" because their flight supposedly is the last shuttle mission devoted to Defense Department work, were roused by a canine rendition of "Jingle Bells."
"Crew dogs, wake up. We got work to do," Mission Control's Carl Meade said. "Good morning, Carl. Dogs of war are wide awake," commander David Walker replied.
- 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).
- 12/6/92 The Air Force Song ("Off We Go Into the Wild Blue Yonder")

- 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.
 12/9/92 "From the Halls of Montezuma".
- 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.
 6/29/93 No wakeup call sent.
 6/30/93 No wakeup call sent.
 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 by five minutes. "We didn't mean to preempt your music, just precede it," Discovery commander Frank Culbertson Jr. told Mission Control's Susan Helms. *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. Carl Walz, nicknamed Elvis, is lead singer in the band.
 9/21/93 "Surfin' Safari" by The Beach Boys
 9/22/93 No wakeup call sent

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
 11/1/93 No wakeup call sent.

STS-61 December 2-13, 1993

12/2/93 "Cosmos" by Frank Hayes (6:57 p.m.) outside, "Hey, good morning, Houston. It can't be morning -- It's still dark outside," shuttle pilot Ken Bowersox told mission control. "No. You're confused again, Sox. Good morning," a Houston flight controller prodded him.
 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 in honor of the commander's two children
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 5th 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
9/16/94 "EVA" Surfing" by Max Q (from Mach 25 tape).
9/17/94 "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 52nd 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 "Oh, Canada" the Canadian National Anthem by Vienna State Opera Orchestra 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 4th of July.
CAPCOM: Blaine Hammond
- 7/5/96 "Birthday" by The Beatles for Henricks 44th 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.
"Good morning, and thanks for the magnificent music from the magnificent crew at Houston," Atlantis pilot Eileen Collins said after Houston mission control congratulated the crew again for the near flawless start to their 10-day trip.
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 chosen by NASA to
honor Australia Day and astronaut Andy Thomas, a naturalized U.S. citizen
born in Adelaide, Australia.
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. "I was sleeping very, very soundly this morning when the wake up call came in," Glenn said.
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”. "That's what I call wake-up music. Good day to go get a satellite," he told Mission Control.
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. "We really feel terrific," Nancy Currie said in replying to ground controllers in Houston, who broadcast the song into space. "We're ready to start packing and come home to see our families just in time for Christmas."
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 Pachelbel - 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 "Kombacht" 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-97 November 30-December 11, 2000

12/1/2000 "Stardust" by Willie Nelson, played for Canadian Space Agency astronaut Garneau

12/2/2000 "I Believe I Can Fly," by R. Kelly

12/3/2000 "Sunshine of Your Love" - Cream

12/4/2000 "Lovin' You Lots & Lots" from the movie "That Thing You Do" by Norm Wooster Singers sent up to Bloomfield from his wife

12/5/2000 "Fight On" (Trojan Fight Song) - University of Southern California fight song for Noriega by USC Marching Band

12/6/2000 "O Mio Babbino Caro" - Puccini opera aria for Garneau

12/7/2000 "Here Comes the Sun" – The Beatles. For Joe Tanner

12/8/2000 "Rattled" – The Traveling Wilburys

12/9/2000 "Back in the Saddle Again" – Gene Autry. In honor of Bloomfield, who is making his second space flight and his second fly-around of a space station.

12/10/2000 "Beyond the Sea" - Bobby Darin. A reference to the traditions observed on the station by Navy Commander Jett and Navy Captain Shepherd, including the ringing of the station's ship's bell when the shuttle crew departed Saturday.

12/11/2000 "I'll be Home for Christmas" – Bing Crosby

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-97/html/ndxpage1.html>

STS-98 February 7-20, 2001

2/8/2001 "Where You At", a jazz selection by Pilot Mark Polansky's late uncle, Zoot Sims

2/9/2001 "Who Let the Dogs Out" - Baha Men, played in honor of Commander Ken Cockrell, who previously flew on a Shuttle mission with astronauts dubbed the "Dog Crew"

2/10/2001 "Girl's Breakdown" - Alison Brown. Alison wrote the tune especially for mission specialist Marsha Ivins. Mission Control played the tune in honor of Ivins who had the critical task on Saturday of attaching the space lab Destiny to the International Space Station.

2/11/2001 "Blue Danube Waltz" - Johann Strauss, Jr. from the film "2001 – a Space Odyssey"

2/12/2001 "Fly Me to the Moon" - Frank Sinatra

2/13/2001 "For Those About to Rock" - AC/DC

2/14/2001 "To the Moon and Back" – Savage Garden

2/15/2001 "Sally Ann" - New Grange

2/16/2001 "The Trail We Blaze" - Elton John

2/17/2001 "Blue" - Eiffel 65

2/18/2001 "Fly Away" - Lenny Kravitz

2/19/2001 "Bad To the Bone" - George Thorogood and the Destroyers

2/20/2001 "Should I Stay or Should I Go" by the Clash, as the crew prepared for their return trip to Earth

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-98/html/ndxpage1.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" – Surfaris

<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 Murrin" - 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 Hobbaugh.
 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>

STS-113 November 23 – December 7, 2002

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 - "Prabhathi" 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 oshesh 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. "A special good morning to my wife, Rona, the love of my life," Ramon said. In Hebrew, he added that he loved and missed his wife and children. "So, here we come, for a wonderful day in space."

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.
 "Imagine" was played at Ilan Ramon's funeral as his funeral dirge. The mourners listened to the recording sent to the astronauts, which ended with Ilan's voice translating Lennon's words into Hebrew: "You may say I'm a dreamer, but I'm not the only one."
 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

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>

STS-121 July 4 –17, 2006

"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

A Spot On NASA's Playlist Gets A Song Heard Around The World (USAT)

By Traci Watson
[USA Today](#), July 13, 2006

Early Saturday morning, Discovery's crew cabin was flooded with I Have A Dream, a syrupy ballad from the Swedish pop megastars of the '70s and '80s. The song was the latest in an enduring NASA tradition: the personalized wake-up call.

In a ritual dating to the Gemini program of the mid-1960s, astronauts awake not to alarms but to music chosen by family or friends. I Have A Dream was picked by the 8- and 11-year-old daughters of astronaut and unlikely ABBA fan Mark Kelly, a former Navy test pilot.

The songs may seem frivolous, but the astronauts welcome them as moments of good cheer during their hectic assignments, says astronaut Mario Runco, who's not part of the Discovery crew. As construction of the International Space Station ramps up and the workload on shuttle flights gets heavier, wake-up songs will serve as a morale booster, says Runco, whose collection has supplied many of the recordings piped up to space.

"When you hear something that's special and directed at you ... you realize you have the support on the ground," he says.

Crewmembers' friends and family say they're happy for the chance to brighten the astronauts' day. When Kelly wakes up Friday to U2's Beautiful Day, girlfriend Gabrielle Giffords, who chose it for him, hopes he'll be inspired.

"Something that's got a nice, moving melody is better than a punk rock song," she says.

The playlist is organized by the astronaut at Mission Control who serves as the link to the crew in space. Most wake-up songs fall into one of four categories:

- College and military. Well over half of the astronauts serve or have served in the military.

- Chirpy and upbeat. James Brown's I Got You (I Feel Good) is a perennial favorite.
- Earnest. Some spouses choose love songs. Others choose Christian tunes, such as God of Wonders, played last week for Discovery astronaut Michael Fossum.
- Tongue-in-cheek. Sonny & Cher's I Got You Babe was featured in the movie Groundhog Day, about a man who wakes up to the same day over and over. It's often played for crews whose launch or landing is delayed repeatedly.

Anthony DeCurtis, a contributing editor to Rolling Stone, says some kinds of music are nearly absent from the playlist. There is no hip-hop, for example. "These are people in an extreme situation," he says. "I'm not sure it's realistic to expect aesthetic daring."

Any kind of music can have a positive effect on mood as long as it's something the listener likes, says Pennsylvania State University's Valerie Stratton, who has studied music and emotions. At the same time, a song that gives one person a boost could seriously annoy another person.

"I think they need to agree on what they play," she says.

When the crew was asked whether there had been any teasing over the ABBA song, Kelly backed away from the microphone.

"I used to be an ABBA fan," crewmate Piers Sellers said pointedly. "Hey, Mark, come back!"

Astronauts Rocked Awake By Recordings (AP)

By Seth Borenstein

[AP](#), July 15, 2006

HOUSTON - These are not your father's astronauts aboard the space shuttle Discovery - at least judging by the music that's been waking them up every morning.

So far in their two-week mission, the crew's wake-up calls have included songs by Coldplay, Smashmouth and R. Kelly.

What ever happened to "Anchors Aweigh"?

For decades, it's been a tradition for NASA's mission control to start astronauts' days with carefully chosen wake-up calls. In the case of the current Discovery mission, those days start at about 1 a.m. EDT, so it helps to play something that gets the blood flowing and the foot tapping. (Tapping on the ceiling? It is space, after all.)

Astronauts' tastes have come a long way from the early days, when "Hello Dolly" was the first wake-up call in 1965 for Gemini 6. The rest of that decade was full of military marches and songs, along with Frank Sinatra, Dean Martin, Herb Alpert and classical music.

Today's astronauts have music that they can rock to while they roll in zero gravity.

"I was impressed," Blender magazine associate editor Josh Eells said. "I had this notion of astronauts being a little bit square. There's a little bit of hip taste there."

But taste, of course, is in the ear of listener. Asked if everyone likes all the songs played up there, astronaut Piers Sellers just rolled his eyes and shook his head.

Back in Houston, the DJ job goes to the capcom - "capsule communicator" - the astronaut on the ground who radios to the ones in space.

Astronaut Mario Runco, the capcom for 16 flights between 1995 and 2002, likes to think of himself as a "senior editor" of the list of requests given to him by astronauts' families, friends and co-workers.

When Runco rolled his tape - NASA mission control only recently started using a CD player - he had a few rules: Don't step on the music. Play a full two minutes. Try to pick a good fade out point.

But no matter how hard Runco tries to do justice to the music, the shuttle isn't exactly a place to get good sound.

"The speakers are fine for voice communications but their dynamic range is awful for music," Runco said in an e-mail. "Bose speakers they're not."

But on one of Runco's own trips to space, sound quality wasn't a problem. 20

A huge Star Trek fan, Runco was awoken by a taped personal greeting from Patrick Stewart - Jean-Luc Picard himself, from "Star Trek: The Next Generation" - set to the show's theme music. In the greeting, Stewart said to Runco: "Make it so."

Getting a prerecorded call is one thing, but last November, International Space Station astronauts Bill McArthur and Valery Tokarev were treated to a live wake-up miniconcert by Paul McCartney - part of a performance he was giving in Anaheim, Calif.

"I can't believe that we're actually transmitting to space," McCartney said as McArthur did a zero-gravity flip.

McCartney played "English Tea" and "Good Day Sunshine," in what was the longest Earth-to-space wake-up call, clocking in at nearly 14 minutes.

- 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 in honor of his son.
- 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 daughters, Claire and Claudia. Mark had a dream as a young boy-- he wanted to go to space and float with the stars. So, on the sixth day of the mission, he was coaxed from his sleeping bag on the ceiling by the music of ABBA. He responded by saying: "Sometimes it is like a dream up here. Floating is a big part of that. The view outside the window is incredible right now. I'm not sure what we're over, but we can see land down there."
- 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. According to Mission Control, the selection was sent by Fossum's wife. He is the first Texas A&M graduate in space .
"You know Mike, there are quite a few Aggies right here in Mission Control, and all throughout Texas, who have been watching you intently during this mission," said astronaut Steve Swanson from Mission Control in Houston. "I think we can say the eyes of Texas are upon you."
- 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

- 9/10/2006 "Moon River," by Audrey Hepburn, for Brent Jett, at request of commander Jett's wife. "It really is a beautiful day up here," Jett said after the wake-up greeting. "We're awake and ready to get to work with the inspection."
- 9/11/2006 A solo cello performance for Mission Specialist Dan Burbank.
- 9/12/2006 "My Friendly Epistle," a Ukrainian song by Taras Shevchenko. It was played for Heide Stefanyshyn-Piper.
- 9/13/2006 "Takin' Care of Business" by Bachman-Turner Overdrive for Mission Specialist Steve MacLean.
- 9/14/2006 "Wipe Out" by the Surfariis for Pilot Chris Ferguson.
- 9/15/2006 "Hotel California" by the Eagles for Mission Specialist Joe Tanner.
- 9/16/2006 "Twelve Volt Man" by Jimmy Buffett for Mission Specialist Dan Burbank.
- 9/17/2006 "Danger Zone" by Kenny Loggins for Pilot Chris Ferguson.
- 9/18/2006 "Rocky Mountain High" by John Denver for Mission Specialist Joe Tanner.
- 9/19/2006 "Ne Partez Pas Sans Moi" (Don't Leave Without Me) by Celine Dion for Mission Specialist Steve MacLean.

9/20/2006 "Beautiful Day" by U2 for Mission Specialist Heidemarie Stefanyshyn-Piper.
9/21/2006 "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 Kelldorf 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 Sunita 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>

STS-122 February 7-20, 2008

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."...

Have a listen:

<http://history.nasa.gov/quincy.mp3>

- | | |
|-----------|--|
| 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 <i>A Prairie Home Companion</i> 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 <i>Das Boot</i> . 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 <i>Oliver!</i> , 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 Lewkowicz 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>

STS-123 March 11-26, 2008

Excerpt from **THE ROCK AND ROLL HALL OF FAME GOES TO OUTERSPACE ON THE SHUTTLE ATLANTIS**

D: ... Now I know that once and a while you guys get awakened by music from Earth, who picks it and what was your first choice?

G: That's a good question. It's true, we have what we call wake up music and each crew member is allotted one or two days, (depending on how long your mission is on the Space Shuttle) for the whole crew to be awakened by that persons music that day. The music is not typically picked by the Astronauts, but by the Astronaut's family. Sometimes they tell you what they are picking and sometimes they don't. For me, on my first flight, it was the fourth day of the mission and that was when I was going outside to do a Space walk. It was a big day for me and it was my first Space Walk. My wife picked the music and unbeknown to me it was "Saturday Night" by the Bay City Rollers. The reason she picked that is when I go snowboarding – at least that season prior to the flight – I had the tendency to sing that song for myself before I would go into the Terrain Park and jump to try and get my courage up. She figured that would be appropriate to try and get me psyched up and get my courage up to go outside a little S-A-T-U-R-D-A-Y night.

May 15, 2010

http://rockhall.com/blog/post/4380_shuttle-atlantis/

- 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>

STS-124 June 1-14 , 2008

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>

STS-126	November 14-30, 2008
11/15/2008	“Shelter” by Xavier Rudd. It was played for Commander Christopher Ferguson.
11/16/2008	“Start Me Up” by the Rolling Stones. It was played for Mission Specialist Sandra Magnus. “I want to thank my family for that music and I’m looking forward to moving into my new home today,” Magnus radioed down to Mission Control in Houston.
11/17/2008	“London Calling” performed by The Clash. It was played for Mission Specialist Steven Bowen.
11/18/2008	“City of Blinding Lights” by U2. It was played for Mission Specialist Shane Kimbrough.
11/19/2008	“Fanfare for the Common Man” by Aaron Copeland. It was played for Pilot Eric Boe.
11/20/2008	“Summertime” played for Mission Specialist Donald Pettit. It was recorded by Bandella. Members of that group include singer Michi Pettit, Don Pettit’s wife, and astronauts Steve Robinson, Chris Hadfield and Cady Coleman.
11/21/2008	The music was for Mission Specialist Heidemarie Stefanyshyn-Piper. The song was in the Ukrainian language, which she learned as a child. It was “Unharness Your Horses, Boys,” a traditional song about Cossacks performed by The Ukrainians.
11/22/2008	“You Are Here” by the group Dutton. It was played for Kimbrough.
11/23/2008	“Can’t Take My Eyes Off of You” performed by Frankie Valli. It was for Ferguson. It was his 23rd wedding anniversary.
11/24/2008	“Can’t Stop Loving You” by Van Halen was played for Mission Specialist Heidemarie Stefanyshyn-Piper.
11/25/2008	“Fever” by Bandella was played for Mission Specialist Donald Pettit and sung by his wife.
11/26/2008	“North Sea Oil” by Jethro Tull was played for Mission Specialist Steve Bowen.
11/27/2008	“Hold on Tight” by Electric Light Orchestra was played for Mission Specialist Heidemarie Stefanyshyn-Piper.
11/28/2008	“In the Meantime” by Spacehog was played for Pilot Eric Boe.
11/29/2008	“Twinkle, Twinkle, Little Star” was played for Mission Specialist Greg Chamitoff.
11/30/2008	The Rocky Theme, “Gonna Fly Now”, performed by Bill Conti. It was for Ferguson.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-126/html/ndxpage1.html>

STS-119	March 15-28, 2009
3/16/2009	“Free Bird” by Lynyrd Skynyrd, played for Pilot Tony Antonelli.
3/17/2009	“Radio Exercise,” performed by the Tokyo Broadcast Children’s Choir. The song traditionally accompanies exercise for Japanese schoolchildren, and was played for astronaut Koichi Wakata of the Japan Aerospace Exploration Agency.
3/18/2009	“I Walk the Line” by Johnny Cash, was played for Steve Swanson.
3/19/2009	“Que Bandera Bonita” by Jose Gonzalez, played for Mission Specialist Joseph Acaba.
3/20/2009	“Box of Rain” by the Grateful Dead, was played for Mission Specialist John Phillips.
3/21/2009	“In a Little While” performed by the group Pilgrim and Trout for Mission Specialist Richard Arnold.
3/22/2009	“Alive Again” by Chicago, played for Chicago-area native Commander Lee Archambault.
3/23/2009	“Ain’t Nobody Here But Us Chickens” by Louis Jordan. It was played for Swanson.
3/24/2009	“Andrew’s Song” by Treestump, a band in which John Phillips’ daughter plays.
3/25/2009	“Dirty Water” by the Standells, played for Pilot Tony Antonelli.
3/26/2009	“Enter Sandman” by Metallica, played for Mission Specialist Joseph Acaba.

- 3/27/2009 "Bright Side of the Road" by Van Morrison, was played for Mission Specialist Richard Arnold.
- 3/28/2009 "I Have a Dream" by ABBA. The song was played for Sandy Magnus.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-119/html/ndxpage1.html>

STS-125 May 11-24, 2009

- 5/12/2009 "Kryptonite" performed by 3 Doors Down. It was played for pilot Greg Johnson.
- 5/13/2009 "Upside Down" by Jack Johnson at 4:01 a.m. CDT. The song was played for Megan McArthur.
- 5/14/2009 "Stickshifts and Safetybelts" performed by Cake. It was played for Drew Feustel.
- 5/15/2009 "God of Wonders." It was played for Mike Good.
- 5/16/2009 "Hotel Cepollina" performed by Fuzzbox Piranha. The song was played for John Grunsfeld.
- 5/17/2009 "New York State of Mind" performed by Billy Joel. The song was played for Mission Specialist Mike Massimino.
- 5/18/2009 "Sound of Your Voice" performed by Barenaked Ladies. It was played for Commander Scott Altman.
- 5/19/2009 "Lie in Our Graves" performed by the Dave Matthews Band. It was played for Mission Specialist Megan McArthur.
- 5/20/2009 Theme from the television series "Star Trek," which was composed by Alexander Courage. The song was played for the entire crew.
- 5/21/2009 "Cantina Band," one of composer John Williams' songs from the soundtrack to "Star Wars." The song was played for the entire crew.
- 5/22/2009 "The Galaxy Song" from "Monty Python's The Meaning of Life." It was played for the entire crew.
- 5/23/2009 "Where My Heart Will Take Me" performed by Russell Watson. It was played for the entire crew.
- 5/24/2009 "The Ride of the Valkyries," composed by Richard Wagner. It was played for the entire crew.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-125/html/ndxpage1.html>

STS-127 July 15-31, 2009

- 7/16/2009 "These Are Days" by the band 10,000 Maniacs emanated from speakers inside Endeavour's crew cabin, a wake-up call targeted especially for Mission Specialist Tim Kopra.
- 7/17/2009 "Here Comes the Sun" by The Beatles, was chosen for Commander Mark Polansky.
- 7/18/2009 "Home," by Marc Broussard, played for lead spacewalker Dave Wolf, who heard the call while camped out in the Quest airlock with Tim Kopra, the newest addition to the Expedition 20 crew.
- 7/19/2009 "Learning to Fly," by Tom Petty and the Heartbreakers, for former Navy SEAL Chris Cassidy, who is making his first space flight aboard the space shuttle Endeavour .
- 7/20/2009 The theme from the 1960s television series "Thunderbirds," by composer Barry Gray, for Canadian Space Agency astronaut Julie Payette.
- 7/21/2009 "Life Is a Highway," performed by Rascal Flatts. The tune was played for Tom Marshburn, who completed his first spacewalk Monday.
- 7/22/2009 "Santa Monica," performed by Everclear, for Endeavour's pilot, Doug Hurley.
- 7/23/2009 "Tiny Dancer," performed by Elton John. The song was selected for Polansky.
- 7/24/2009 Pink Floyd's "Wish You Were Here," offered up for lead spacewalker Dave Wolf.
- 7/25/2009 "In Your Eyes," by Peter Gabriel was selected for Tom Marshburn, who completed his second spacewalk on Friday with Chris Cassidy.
- 7/26/2009 George Frederic Handel's "Dixit Dominus." The excerpt was uplinked for Canadian Space Agency astronaut Julie Payette.
- 7/27/2009 "On the Sunny Side of the Street," performed by Steve Tyrell. The song was uplinked especially for Commander Mark Polansky.

- 7/28/2009 "Proud to Be an American" performed by Lee Greenwood. The song was selected for spacewalker Chris Cassidy, a former Navy SEAL.
- 7/29/2009 "Yellow" by the band Coldplay, uplinked for Pilot Doug Hurley in honor of his International Space Station fly-around.
- 7/30/2009 "I Got You Babe," performed by Sonny and Cher. The song was a special request for Koichi Wakata, the first Japan Aerospace Exploration Agency astronaut to serve as a long-duration resident of the station.
- 7/31/2009 "Beautiful Day" by the band U2 was played for Mission Specialist Tom Marshburn.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-127/html/ndxpage1.html>

STS-128 August 28-September 11, 2009

- 8/29/2009 "Back in the Saddle Again" by Gene Autry was played for Commander Rick Sturckow.
- 8/30/2009 "Made to Love" by Toby Mac was played for Mission Specialist Nicole Stott.
- 8/31/2009 "Mi Tierra" by Gloria Estefan was played for Mission Specialist Jose Hernandez.
- 9/1/2009 "Indiana, Our Indiana" performed by the Indiana University Band was played for Pilot Kevin Ford, born in Indiana and on his first spaceflight.
- 9/2/2009 "What a Wonderful World" by Louis Armstrong was played for Mission Specialist Christer Fuglesang.
- 9/3/2009 "There is a God" by 33 Miles was played for Mission Specialist Patrick Forrester.
- 9/4/2009 "What a Wonderful World" by Louis Armstrong was played for Mission Specialist Danny Olivas.
- 9/5/2009 "El Hijo del Pueblo" by Alfredo Jimenez was played for Mission Specialist Jose Hernandez.
- 9/6/2009 "Rocket" by Andrew Peterson was played for Mission Specialist Pat Forrester.
- 9/7/2009 "Only One" by Jeremy Kay was played for Mission Specialist Danny Olivas.
- 9/8/2009 "Beautiful Day" by U2 was played for Mission Specialist Tim Kopra, the Shuttle's newest crew member.
- 9/9/2009 "Sailing" performed by Rod Stewart was played for Mission Specialist Christer Fuglesang.
- 9/10/2009 "Good Day Sunshine" by the Beatles was played for Pilot Kevin Ford.
- 9/11/2009 "Big Boy Toys" by Aaron Tippin was played for Commander Rick Sturckow.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-128/html/ndxpage1.html>

STS-129	November 16-27, 2009	
11/17/2009		<p>"I Can Only Imagine" by MercyMe was played for Mission Specialist Barry Wilmore, a tune selected by his wife Deanna to mark his first career spaceflight.</p> <p>"What a very pleasant song to wake up to, thank you for playing that," Wilmore radioed Mission Control. "Thanks to my wife for selecting it."</p>
11/18/2009		"Higher Ground" by Stevie Wonder was played for Mission Specialist Robert L. Satcher Jr.
11/19/2009		<p>"In Wonder" by The Newsboys was played for Mission Specialist Randy Bresnik, a tune chosen for Bresnik by his wife.</p> <p>"Thanks to my wonderful wife Rebecca for that song and the wonder of creation that's going on inside of her and what's going to happen tomorrow," Bresnik radioed Mission Control.</p>
11/20/2009		"We Are Family" by Sister Sledge was played for Mission Specialist Leland Melvin.
11/21/2009		"Voyage to Atlantis" by The Isley Brothers was played for Mission Specialist Robert Satcher.
11/22/2009		<p>"Butterfly Kisses" by Bob Carlisle was played for Mission Specialist Randy Bresnik. Responding to the wake-up call from Houston, he delivered the news that his wife Rebecca had given birth, saying "good morning, Houston. Good morning, Rebecca, good morning, Wyatt, and good morning to our little girl."</p> <p>"I just wanted to take this opportunity to report some good news," he said later in the morning. "At 11:04 last night, Abigail Bresnik joined the NASA family and momma and baby are doing very well. I'm very thankful for everyone ... that's been so supportive and so helpful the last couple of days with everything that's been going on."</p> <p>The shuttle crew's wakeup music, chosen by Bresnik's wife, was a song titled "Butterfly Kisses," which starts off with the lyrics: "There's two things I know for sure: She was sent here from heaven and she's daddy's little girl."</p>
11/23/2009		"Space Rise" by Larry Whitehair was played for Mission Specialist Mike Foreman.
11/24/2009		"Marine Corps Hymn" performed by the U.S. Marine Corps Band was played for STS-129 Commander Charlie Hobaugh.
11/25/2009		"Amazing Grace" from the 1995 movie "Braveheart," performed by Eric Rigler on bagpipes, was played for STS-129 Pilot Barry Wilmore.
11/26/2009		"Fly Me to the Moon" performed by Frank Sinatra was played for Mission Specialist Nicole Stott.
11/27/2009		"Home Sweet Home" performed by Motley Crue was played for the entire crew.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-129/html/ndxpage1.html>

STS-130 February 8-21, 2010

Brandon Heath Wins Emmy And Has Space Shuttle Encounter (Beliefnet.)

By Joanne Brokaw

[Beliefnet.com \(blog\)](#), February 11, 2010

Brandon Heath recently won a Midsouth Regional Emmy Award for his blockbuster hit "Give Me Your Eyes," which served as the catalyst for Nashville Rescue Mission's Hunger to Hope 2009 PSA Campaign, produced by NewsChannel 5's Jerry L. Walker, WTVF-TV (CBS).

Adding to the excitement, the song was chosen by NASA as the 5:14pm CT wake-up call for the Endeavour shuttle crew, on their first day in orbit, in honor of first-time flyer Pilot Terry Virts, who is a fan of Heath's music. Virts invited Heath to join his family as a special guest at the launch yesterday from NASA's Kennedy Space Center in Florida. (The video above is what the astronauts heard.)

Cool, huh?

In a press release, Brandon said, "Having my song included in a PSA talking about serving the poor was hugely rewarding. The Emmy is a nice statue, loving Nashville's homeless is monumental. I'm especially grateful to WTVF NewsChannel 5, and Jackie Pillers, and to Jerry Walker for the idea."

"Give Me Your Eyes" appears on Brandon's 2008 Grammy-nominated sophomore album, What If We. The album has delivered back-to-back No. 1 singles with "Give Me Your Eyes," which captured 14 weeks at No.1 on Billboard's Hot Christian AC radio chart, plus 27 weeks at No. 1 on iTunes Christian Song Chart, with 439,000 total digital downloads. The second single "Wait And See" topped Billboard's Christian AC Indicator chart in July 2009. The album's current single "Love Never Fails" moves into Top 20 at Billboard's AC Monitored this week.

2/8/2010	"Give Me Your Eyes" by Brandon Heath, played for Pilot Terry Virts.
2/9/2010	"Katmandu" by Bob Seger, was played for Commander George Zamka.
2/10/2010	"Also Sprach Zarathustra" by Richard Strauss, played for Mission Specialist Nicholas Patrick. The song is most widely known as the theme from the movie "2001: A Space Odyssey."
2/11/2010	"Beautiful Day" by U2, played for Mission Specialist Kay Hire.
2/12/2010	The "Firefly" TV show theme song, "The Ballad of Serenity" by Sonny Rhodes played for Mission Specialist Bob Behnken.
2/13/2010	"Too Much Stuff" by Delbert McClinton, played for Mission Specialist Stephen Robinson.
2/14/2010	"Forty Years On" the Harrow School (London) song, for Harrow alumnus Mission Specialist Nicholas Patrick.
2/15/2010	"Parabola" performed by Tool for Mission Specialist Robert Behnken.
2/16/2010	"Window on the World" by Jimmy Buffett, played for Mission Specialist Kathryn Hire. "That song is very appropriate today," said Endeavour mission specialist Kay Hire. "On a day that we'll be working on opening our new window on the world." "Our wakeup music today on Endeavour was Jimmy Buffett's 'Window on the World,'" astronaut Steve Robinson observed. "I think that came from Kay's family." "Ah, lovely," Patrick replied.
2/17/2010	"Oh Yeah" by Johnny A., played for Mission Specialist Stephen Robinson.
2/18/2010	"I'm Gonna Be (500 Miles)" by Steven Curtis Chapman played for Pilot Terry Virts.

2/19/2010 "In Wonder" by Newsboys, played for Pilot Terry Virts.
 2/20/2010 "The Distance" by Cake, played for all six astronauts from their flight control team in the Mission Control Center in Houston.
 2/21/2010 "The Marines' Hymn" played for Commander George Zamka, who is a colonel in the Marine Corps.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-130/html/ndxpage1.html>

STS-131 April 4-20, 2010

4/5/2010 "Find Us Faithful" performed by Steve Green. It was played for veteran Mission Specialist Clayton Anderson, who spent 152 days as a member of the Station's Expedition 15 crew in 2007.
 4/6/2010 "I Will Rise" by Chris Tomlin, was played for Pilot James P. Dutton Jr.
 4/7/2010 "The Pigeon and a Boy" by Joe Hisaishi, played for Japan Aerospace Exploration Agency astronaut Naoko Yamazaki.
 4/8/2010 "Defying Gravity", from the musical "Wicked", sung by Idina Menzel and Kristen Chenoweth, played for Mission Specialist Dottie Metcalf-Lindenburger.
 4/9/2010 "We Weren't Born to Follow" by Bon Jovi, played for Mission Specialist Rick Mastracchio.
 4/10/2010 "Stairway to the Stars" by Ella Fitzgerald, played for Mission Specialist Stephanie Wilson.
 4/11/2010 "Because We Believe", by Andrea Bocelli for Commander Alan G. Poindexter.
 4/12/2010 "Galileo" by the Indigo Girls for Mission Specialist Dottie Metcalf-Lindenburger and the rest of the crew.
 4/13/2010 "Miracle of Flight" by Mike Hyden, played for Mission Specialist Clayton Anderson.
 4/14/2010 "The Earth in the Color of Lapis Lazuli" by Seiko Matsuda for Naoko Yamazaki.
 4/15/2010 "Theme from Stargate" played for Mission Specialist Rick Mastracchio.
 4/16/2010 "Joy" performed by the Newsboys selected for Pilot James P. Dutton Jr.
 4/17/2010 "What a Wonderful World", by Louis Armstrong for Mission Specialist Stephanie Wilson.
 4/18/2010 "The Star Spangled Banner", played for Commander Alan G. Poindexter.
 4/19/2010 "On the Road Again" by Willie Nelson for the crew.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-131/html/ndxpage1.html>

STS-132 May 14-26, 2010

See **THE ROCK AND ROLL HALL OF FAME GOES TO OUTERSPACE ON THE SHUTTLE ATLANTIS**

May 15, 2010

http://rockhall.com/blog/post/4380_shuttle-atlantis/

5/15/2010	“You’re My Home” performed by Billy Joel. The song was played for Commander Ken Ham.
5/16/2010	“Sweet Home Alabama” performed by Lynyrd Skynyrd, was played for Tony Antonelli.
5/17/2010	“Alive Again” performed by Matt Maher was played for Mike Good.
5/18/2010	“Macho Man” performed by The Village People was played for Garrett Reisman.
5/19/2010	“Start Me Up” by the Rolling Stones was played for Piers Sellers.
5/20/2010	“Welcome to the Working Week” by Elvis Costello was played for Stephen Bowen.
5/21/2010	“Traveling Light” performed by JJ Cale was played for Piers Sellers.
5/22/2010	“Lord We Have Seen the Rising Sun” by Matt Redman was played for Mission Specialist Mike Good.
5/23/2010	“These Are Days” performed by 10,000 Maniacs played for Pilot Tony Antonelli.
5/24/2010	The theme to “Wallace and Gromit” played for Steve Bowen.
5/25/2010	“Empire State of Mind” performed by Jay Z and Alicia Keys was played for Garrett Reisman.
5/26/2010	“Supermassive Black Hole” performed by Muse was played for Ken Ham.

<http://spaceflight.nasa.gov/gallery/audio/shuttle/sts-132/html/ndxpage1.html>

A Little Flight Music: NASA Contest for Wake-Up Songs Prompts Astronauts to Recall Tuneful Highlights

From daily wake-up songs to portable music players, music is a big part of life in orbit

By John Matson



SPACE JAMS: Eric Boe, pilot of the STS 126 mission, exercises with a portable music player on space shuttle *Endeavour* in 2008.

NASA

As deejay gigs go this is a short one, but the audience is captive and the venue is very exclusive. With a recently announced contest, NASA has opened the door to the public to choose music to be played for astronauts during the final two scheduled space shuttle missions. Four winning songs will serve as wake-up music on the missions, currently pegged for November and February launches.

Wake-up music is a tradition that, according to a NASA history of the practice, stretches back to the Apollo moon program. Ground control pipes a tune up to the spacecraft to rouse the crew from their sleep shifts, and often a crew member's family will choose a song with special meaning for their relative. In this case the two wake-up songs will be chosen from a selection of past

shuttle tunes, and two more will be selected from original, space-themed compositions submitted by musicians.

The contest will probably provide a nice public relations boost for the space agency, but what about the astronauts? Does in-flight music even register during the rigors of space travel?

Apparently it does. Wake-up music provides both a source of camaraderie and a connection to home, according to a few former astronauts, who shared their memories of the practice via e-mail.

"Wake-up music is one of my favorite parts of a mission," says Pamela Melroy, a veteran of three shuttle missions between 2000 and 2007. "The way I was taught by my commanders, and the way I ran wake-up music on my flight as a commander, was to know in advance what crew member and what song was being played each morning." That way, she says, there would be no question of whose family was waiting for acknowledgment on the ground.

"I set a small timer right by my head for about two minutes before, and I would gently wake up the crew member whose turn it was and make sure they were in place on the flight deck—upstairs—in time to hear the music," Melroy explains. "I would stay up there with them, make sure they knew the name of the song if they weren't sure, and basically be there with them to witness their moment. It's a very fond memory from being a commander—to share those few minutes with each crew member and their loving families."

One of the most popular wake-up selections through the years has been Louis Armstrong's "What a Wonderful World," which has appeared on no fewer than 11 shuttle missions, including one mission on which it was played twice for two different astronauts. (The song's late co-composer, George David Weiss, died August 23 at the age of 89.) Armstrong's recording was cued up at least three times for Scott Parazynski, who flew on five shuttle missions between 1994 and 2007. "'What a Wonderful World' was always the perfect accompaniment to the vistas from space," Parazynski says. "My family played it for me on several missions, typically before big EVA days." (Short for extravehicular activity, EVA is NASA-speak for a spacewalk.)

"My son Luke also dedicated the theme to *Star Wars* to me before the solar array repair we did on STS 120," a 2007 shuttle mission to the International Space Station, Parazynski adds. That was probably Parazynski's biggest day ever on the job, he says, and "it really made me smile, and put me in the perfect state of mind to go face the challenge."

Wake-up music also offers an opportunity for lightheartedness, as was the case on STS 92, a 2000 mission to the space station. On the fifth day of the mission, ground control woke the crew with "Camelot," from *Monty Python and the Holy Grail*. That moment rates as three-time shuttle flier Leroy Chiao's favorite encounter with shuttle music. All during training the crew was quoting lines from the film, "and on the day of the first spacewalk it was played for us," Chiao says. "It set the tone for the day, and we had a perfect spacewalk." Like Satchmo, Monty Python has been well represented on shuttle flights—the theme to *Monty Python's Flying Circus* television show was played twice, and the U.K. comedy troupe's "The Galaxy Song" was played once.

Melroy's favorite wake-up music memory comes from that same 2000 shuttle mission. "One of the movies we loved as a crew was *So I Married an Axe Murderer*," she recalls. In one scene the father of the main character (both father and son are played by Mike Myers), a caricature of a Scotsman who tends his own Scottish Wall of Fame, dances arm-in-arm with his wife to "Saturday Night," a 1970s hit by the Edinburgh pop group the Bay City Rollers. The mission's training team, knowing the astronauts' affinity for the movie, dedicated the song to the entire crew on the 11th day of the mission. "The whole crew crowded up on the flight deck, and Brian Duffy [the mission's commander] and I linked arms and mimicked the dance in the movie, floating around in zero g and cracking up," Melroy says.

Portable music players also find plenty of use in space. Parazynski relied on earbuds during workouts, and Chiao says some astronauts use them during work operations as well. "Most of us just use one earbud, and leave the other ear open to hear operational calls," he says. But sometimes personal players simply provide a musical accompaniment to one of the greatest vistas available to humankind. Melroy caught on to listening to music toward the end of her first shuttle flight. "Everyone else carried their CD players and headphones with them," she says, "and it wasn't until I did the same—perhaps eight days into the mission—and heard the swelling sounds of music as I looked out at the majesty of Earth that I realized what I had been missing."

August 27, 2010

<http://www.scientificamerican.com/article.cfm?id=nasa-shuttle-music>

STS-133 February 24- March 9, 2011

Read NASA's Press Release announcing the winners of the STS-133 wakeup song contest:

http://www.nasa.gov/home/hqnews/2011/feb/HQ_11-055_Top_40.html

Read a space.com article on the contest and wakeup calls through history:

<http://www.space.com/11029-space-music-astronauts-wakeup-songs.html>

Discovery crew enjoys 'live' wakeup tune; packs for re-entry

03/08/2011 04:45 AM

By **WILLIAM HARWOOD**

CBS News

In a first for mission control and a shuttle crew, the Discovery astronauts were awakened Tuesday with a live performance of "Blue Sky" by Big Head Todd and the Monsters, a tune inspired by the first post-Columbia mission. The song won the most votes in a NASA "Top 40" competition giving the public an opportunity to select the crew's wakeup music.



Todd Park Mohr, leader of Big Head Todd and the Monsters, performs the band's song "Blue Sky" in a live wakeup call to the Discovery astronauts. (Credit: NASA TV)

Playing an acoustic guitar, band leader Todd Park Mohr, singing solo but flanked by his three fellow musicians, serenaded the astronauts at 3:23 a.m. EST (GMT-5) to kick start Discovery's final full day in space.

"We've waited long for this day to come," he sang, "for all the midnight lights we've burned into the morning sun, I can't wait to see your sweet mysteries, the moon, the stars, the sun, the universe, the galaxies.

"Fly home on your silver wings, with your new song for the world to sing, light this candle, make it right."

Big Head Todd and the Monsters won a NASA competition allowing the public to pick two of the Discovery crew's wakeup songs, winning 722,662 of the more than 2.4 million votes cast. Second place went to the theme from the "Star Trek" television series, which was beamed up to the crew Monday with a voice over by William Shatner marking Discovery's final mission.

"Hello everybody. Greetings, this is Todd from Big Head Todd and the Monsters," Mohr radioed Discovery from mission control.

"Well, good morning, Todd, thanks very much for that," commander Steven Lindsey replied from orbit. "That was great. Did you just do that live?"

"I did just do that live, and I believe it's a first in history."

"Well, that was terrific, we really appreciate it and congratulations on winning the contest," Lindsey said.



***Todd Park Mohr chats with Discovery commander Steven Lindsey.
(Credit: NASA TV)***

"Well, on behalf of Big Head Todd and the Monsters and songwriters and artists everywhere, we just want to thank you so much for your courage and your bravery and your effort in just giving all of us a better shot at knowing more. It's very inspirational to the arts as well. I just want you to be home safely and as soon as you can."

"Thank you very much," Lindsey said. "We all wish you could see what we can see when we look out at the Earth and hopefully, everybody will be able to do that one of these days. Hopefully sooner rather than later."

"We'll work on that together. Thank you so much."

<http://www.cbsnews.com/network/news/space/home/spaceneews/files/abb7063d9ed444cbd4a0e1d9bbbac4d7-192.html>

Listen to the Big Head Todd and the Monsters wakeup call here:

http://www.nasa.gov/multimedia/videogallery/index.html?collection_id=14483&media_id=70058841&module=homepage

- 2/25/2011 "Through Heaven's Eyes" performed by Brian Stokes Mitchell on the "The Prince of Egypt" soundtrack. The song was played for Mission Specialist Michael Barratt.
- 2/26 /2011 "Woody's Roundup" performed by Riders in the Sky, which was played for Mission Specialist Alvin Drew.
- 2/27/2011 "Java Jive" as performed by The Manhattan Transfer quartet, was played for Commander Steve Lindsey.
- 2/28/2011 "Oh What a Beautiful Morning" by Davy Knowles and Back Door Slam was played for Mission Specialist Nicole Stott.
- 3/1/2011 "Happy Together" by The Turtles. The song was played for Mission Specialist Steve Bowen.
- 3/2/2011 "The Speed of Sound" by Coldplay. It was played for Pilot Eric Boe.
- 3/3/2011 "City of Blinding Lights" by U2. It was for all the crew members.
- 3/4/2011 "The Ritual/Ancient Battle/2nd Kroykah," from volume two of "Star Trek: The Original Television Soundtrack" – better known as the Star Trek fight song – was played for the crew. The song was chosen by the crew's training team.
- 3/5/2011 Bowling for Soup's "Ohio (Come Back to Texas)," which was played for the whole crew.
- 3/6 /2011 "Spaceship Superstar" by Prism. It was chosen for all Discovery crew members by the team of flight controllers who have been supporting them overnight throughout the mission.
- 3/7/2011 The "Theme from Star Trek," performed by Alexander Courage, served as the wake up music for Discovery's crew at 2:23 a.m. It received the second most public votes from a Top 40 list in a Space Shuttle Program-sponsored song contest (671,134 votes (27 percent of the total). The top two songs with the most votes from that list earned the right to be played as wake up music for Discovery's crew during its final mission. As a bonus, actor William Shatner recorded a special introduction to the song:

"Space, the final frontier. These have been the voyages of the Space Shuttle Discovery. Her 30 year mission: To seek out new science. To build new outposts. To bring nations together on the final frontier. To boldly go, and do, what no spacecraft has done before."

It was a fitting beginning to the day that will see Discovery undock from the space station for the last time. Discovery was the first space shuttle to dock to the International Space Station, during the STS-96 mission in 1999, marking just one time it did what no spacecraft had done before.

- 3/8/2011 "Blue Sky" by Big Head Todd and the Monsters. The song was performed live by Todd Park Mohr, vocalist and lead guitarist of the band, accompanied by fellow band mates Brian Nevin, Rob Squires and Jeremy Lawton. The song received the most votes in NASA's Top 40 song contest receiving 722,662 votes (29 percent of the 2,463,774 total). It was originally written as a tribute to the space program and workforce, and is routinely played in concert by the four-member band. The live performance was the

first time a shuttle crew has been awakened “live” from Mission Control, Houston. “That was terrific,” Lindsey radioed down to Mohr. “We really appreciate it and congratulations on winning the contest.”

Mohr, with his three band members in the control center, thanked Lindsey for his courage, bravery “and your effort in just giving all of us a better shot at knowing more. It’s very inspirational to the arts as well.”

3/9/2010

“Coming Home” by Gwyneth Paltrow chosen by the International Space Station flight control teams that supported the crew.

<http://www.archive.org/details/STS-133>

STS-134

May 16-June 1, 2011

Read NASA’s Press Release announcing the winners of the STS-134 “Original Song Contest”:

http://www.nasa.gov/home/hqnews/2011/may/HQ_11-154_Wake_Up_Songs.html

5/16/2011

“Beautiful Day” performed by U2. The song was played for Commander Mark Kelly. Wounded U.S. Rep. Gabrielle Giffords helped start the first full work day in space for her husband and the crew of the space shuttle Endeavour with the song. It’s the same song Giffords sent as a wake-up call to Mark Kelly in 2006 when they were just dating. But this time the message-of-hope lyrics seemed to have a special meaning given her recovery from being shot in the head Jan. 8 in Arizona.

This time the song was from Giffords and Kelly’s two daughters.

“It’s good to be waking up in space again,” Kelly radioed back to Earth. “I want to thank Gabby, Claudia and Claire for that great wake up song. It’s always good to hear U2 and ‘Beautiful Day’ in space.”

5/17/2011

“Drops of Jupiter”, a song by the band Train played for Pilot Greg Johnson, a tune selected for Johnson by his family and radioed up to the shuttle by Mission Control.

“I love that song and I love being in space,” Johnson radioed Mission Control. Johnson thanked his teenage son Matt for choosing the song and apologized for missing his birthday, which is tomorrow. “And I want to say that’s a perfect way to start an exciting rendezvous day!”

5/18/2011

“Luna,” performed by Jose Serrano for his friend Greg Chamitoff

5/19/2011

“We All Do What We Can Do.” The song was sent up for Mike Fincke by shuttle thermal protection system engineer Dan Keenan, and Kenny McLaughlin, a Kennedy Space Center launch pad engineer. The two shuttle workers created the song to honor those who have helped make the space program a success.

5/20/2011

“In View” performed by Tragically Hip. The song was played for Andrew Feustel.

5/21/2011

“Il Mio Pensiero” performed by Ligabue. The song was played for Roberto Vittori.

5/22/2011

“Times Like These” by the Foo Fighters for Mission Specialist Andrew Feustel.

5/23/2011

“Svegliarsi La Mattina (Woke Up This Morning)” by the Italian duo Zero Assoluto, uplinked especially for Mission Specialist Roberto Vittori of Italy.

5/24/2011

“Real World” by Matchbox 20 for shuttle Pilot Greg Johnson.

5/25/2011

“Countdown” by the Canadian band Rush, played for Mission Specialist Mike Fincke. Fincke described how his friends Greg Shurtz and NASA employee Ken Fisher chose the song because the band was inspired to write it and the album “Signals” after viewing the launch of STS-1. Fincke went on to say the song was played as a tribute to the space shuttle program, which has inspired people around the world.

- 5/26/2011 A modified version of the song “Fun, Fun, Fun” with shuttle-themed lyrics, played for all six STS-134 crew members.
- 5/27/2011 “Will You Carry Me?” performed by Michael FitzPatrick. FitzPatrick has been an Electrical, Environmental, Consumables, and Mechanical flight controller at NASA's Johnson Space Center for more than 20 years and supported 80 missions.
- 5/28/2011 “Galaxy Song” performed by Clint Black. The song was dedicated to the whole crew by the flight control team.
- 5/29/2011 “Slowness” by the Tucson, Arizona-based band Calexico, was played for Kelly. Mark Kelly picked Calexico's "Slowness" as a wake-up call to honor his wife, Congresswoman Gabrielle Giffords, and her hometown, Tucson. Kelly tells mission control in Houston that Gabby “really wants to get back there and is really looking forward to that, so it’s an appropriate song. That’s coming soon.”
- 5/30/2011 The original composition “Dreams You Give” by Brain Plunkett, the second place winner in the Space Shuttle Program’s Original Song Contest, which drew more than 1,300 entries. More than a million votes were cast online by the general public to choose two songs from among 10 finalists to be played to the astronauts.
- 5/31/2011 “Sunrise Number 1,” performed by the band Stormy Mondays. This song was chosen in an online vote of the general public as the winner in the Space Shuttle Program’s Original Song Contest, which attracted 1350 entrants.

<http://www.archive.org/details/STS-134>

STS-135 July 8-July , 2011

- 7/9/2011 “Viva la Vida” performed by Coldplay, a song picked by STS-135 Pilot Doug Hurley. The song was accompanied by a special good morning message recorded by employees at NASA’s Marshall Spaceflight Center in Huntsville, Alabama, the NASA center that has managed the Space Shuttle’s solid rocket boosters, main engines and external tank throughout the program’s history.
- 7/10/2011 “Mr. Blue Sky” by Electric Light Orchestra played for Commander Chris Ferguson.
- 7/11/2011 “Tubthumping” by Chumbawamba played for Mission Specialist Sandy Magnus.
- 7/12/2011 “More” by Matthew West played for Mission Specialist Rex Walheim.
- 7/13/2011 Flight Day 6 was kick-started for the STS-135 astronauts with a special wake-up message from Elton John and one of the legendary performer’s greatest hits. "Rocket Man" debuted around the time of the Apollo 16 mission, which sent men to the moon for the fifth time. The 4-½ minute song, which describes a long-term space bound astronaut’s mixed feelings at leaving his family to do his job, has been played to awaken four shuttle crews aboard Discovery and Atlantis. "Rocket Man" also, one of NASA’s top 40 wakeup call songs listed for voter selection during a contest to commemorate the Space Shuttle Discovery and Endeavour’s last missions, earned nearly 5,000 votes from the public. The song inspired by space exploration woke up the final space shuttle crew of Atlantis one last time: "Good morning Atlantis, this is Elton John. We wish you much success on your mission. A huge thank you to all the men and women at NASA who worked on the shuttle for the last three decades."
- 7/14/2011 Michael Stipe front man for R.E.M. started the crew’s day with an A capella version of the group’s hit, "Man on the Moon". On recording this song for the Atlantis’ last crew Stipe said, “I recorded ‘Man on The Moon’ for NASA in Venice, Italy, where Galileo first presented to the Venetian government his eight-power telescope, and in 1610 wrote 'The Starry Messenger' (Sidereus Nuncius), an account of his early astronomical discoveries that altered forever our view of our place in the universe.”
 “Good morning, Atlantis,” he said. “This is Michael Stipe from R.E.M. We wish you much success on your mission, and thank all the women and men at NASA who have worked on shuttle for three decades. From Earth, a very good morning to you.”

- 7/15/2011 Sir Paul McCartney greeted the Atlantis crew with the Beatles favorite "Good Day Sunshine". "Good morning guys, wake up! And good luck on this, your last mission. Well done," McCartney said in a message recorded pre-launch for the final space shuttle crew.
- 7/16/2011 "Run the World (Girls)" After being awakened by a special greeting from songstress Beyonce Knowles. Beyonce also known as Sasha Fierce was born in Houston, also home of the final shuttle astronauts: Chris Ferguson, Doug Hurley, Sandy Magnus and Rex Walheim. Beyonce brought it on orbit when "Girls" was played for the entire crew as a tribute to the final shuttle mission and also to women in space: "Good morning Atlantis, this is Beyonce. Sandy, Chris, Doug and Rex, you inspire all of us to dare to live our dreams, to know that we're smart enough and strong enough to achieve them. This song is especially for my girl, Sandy, and all the women who've taken us to space with them and the girls who are our future explorers."
- 7/17/2011 "Celebration" by Kool and the Gang, played for Mission Specialist Sandy Magnus. The song was accompanied by a special good morning message recorded by employees at NASA's Stennis Space Center in southern Mississippi, the NASA center that is home to the test stands that verified each of the main engines that helped propel space shuttles into low Earth orbit, including the three used in the STS-135 launch. "Good morning Atlantis, from your friends at Stennis Space Center," Stennis employees said. "It's time to fire up your engines – laissez les bons temps rouler!" "Laissez les bons temps rouler," is a Cajun French phrase that translates "Let the good times roll."
- 7/18/2011 "Days Go By" by Keith Urban, which was played for Mission Specialist Rex Walheim. The song was accompanied by a special good morning message recorded by employees at NASA's Johnson Space Center in Houston, TX. The NASA center is home not only to the astronaut corps, but also Mission Control and the Space Shuttle Program. "Good morning, Atlantis, from all of us at the Johnson Space Center!" chorused an auditorium-full of Johnson employees in a message recorded before Atlantis' launch. "Have a great mission!"
- 7/19/2011 "Don't Panic" by Coldplay, which was played for Pilot Doug Hurley. This was the last wakeup song played for a shuttle crew while docked to the International Space Station. Coldplay's "Viva la Vida" was the wakeup music for the crew on Flight Day 2.
- 7/20/2011 "Fanfare for the Common Man" by Aaron Copland played for Commander Chris Ferguson. It was followed by a prerecorded message from Kennedy Space Center employees. "Three ... two ... one ... Good morning, Atlantis!" the group said. "Kennedy salutes you. See you back at wheels stop!" Kennedy is home to the space shuttle fleet, along with its launch pads and the people who prepared the shuttles for each trip into space.
- 7/21/2011 Kate Smith's rendition of Irving Berlin's "God Bless America" woke Commander Chris Ferguson, Pilot Doug Hurley and Mission Specialists Sandy Magnus and Rex Walheim. But unlike most wakeup songs, which are played in honor of a particular crew member, this one was dedicated to all the men and women who have worked for the Space Shuttle Program in the past three decades... "the men and women who put their heart and soul into the shuttle program for all these years," as Capcom Shannon Lucid told the crew.

Ferguson said it was an appropriate song for their last day in space.

http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts135/135_wakeup.html

Lost Space Shuttle Tradition? Astronaut Wake-Up Songs May Retire With Fleet

by Mike Wall, SPACE.com Senior Writer

Date: 20 July 2011 Time: 09:29 AM ET

<http://www.space.com/12360-astronaut-wakeup-songs-space-shuttle-retirement.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

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

"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 "wakeup 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

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.

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

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