2011 a year of scientific discovery and technological innovation and new destinations for exploration that was this year at NASA. 2011 was a year of transition for human exploration of space with a journey to the International Space Station of the remaining expedition 30 crew members the orbiting complex continued along its new path to full utilization as the world's only laboratory in microgravity. The three new members of the expedition 27 crew are busy making the International Space Station their new home for the
next five months

flight engineers alexander samokutyaev

andrey borisenko and ron garan arrived

at the station in their soyuz spacecraft

following a successful journey from the

Baikonur cosmodrome in Kazakhstan

cosmonaut sergei volkov and alexander

samokutyaev conducted a six-hour

spacewalk to continue outfitting the

Russian segment of the International

Space Station the expedition 28 flight

engineers also installed laser

communications equipment and Replace

experiments on the Zvezda service module
Iran Garan flashing a big smile as he's extracted the Soyuz spacecraft carrying NASA astronaut Ron Garan and his fellow expedition 28 flight engineers returned safely to Earth with the landing on the steppes of Kazakhstan for example this camera system that I put the International Space Station program office at the Johnson Space Center partnered with the Glenn Research Center to highlight the unique research opportunities offered by the world's laboratory in microgravity held in...
Cleveland at the Great Lakes Science

00:02:00,218 --> 00:02:05,589
Center this destination station forum

00:02:03,099 --> 00:02:08,258
noted the accomplishments of the ISS

00:02:05,590 --> 00:02:10,450
National Laboratory and promoted future

00:02:08,258 --> 00:02:12,818
opportunities for commercial academic

00:02:10,449 --> 00:02:17,018
and government research and Technology

00:02:12,818 --> 00:02:19,929
Development full utilization of the ISS

00:02:17,019 --> 00:02:22,239
could only be realized after the final

00:02:19,930 --> 00:02:24,969
flights of discoveries or debtor and

00:02:22,239 --> 00:02:27,039
Atlantis assembly complete the last

00:02:24,969 --> 00:02:29,590
great contribution among many by the

00:02:27,039 --> 00:02:35,048
space shuttle in more than 30 years of

00:02:29,590 --> 00:02:37,840
service to NASA and humankind go for

00:02:35,049 --> 00:02:45,069
main engine start we have main engine

00:02:37,840 --> 00:02:47,620
start two one and the final liftoff of
discovery a tribute to the dedication

hard work and pride of America's Space

Shuttle team the shuttle is the tower in

the late afternoon of February 24

shuttle discovery took off on its final

mission into space

carrying sts-133 crew members commander

steven lindsey pilot eric boe and

mission specialists alvin drew mike

barratt steve bowen and nicole stott to

the international space station this

35th shuttle mission to the ISS delivers

the permanent multi-purpose module the

express logistics carrier 4 and Robonaut
the first dexterous humanoid robot in space
r2 will become a permanent station
residents are you guys making the food
stores up there washing the dishes or
something or do they have more exciting jobs he's still in packing foam so we
hope to get them out shortly and it's going to be fun to see how he works
that's the same come on guys let's pack
the guy he flew all that way if you guys are not packing them yeah
you know the poor guys been locked in that foam for about four months now and
every once while we hear kind of some

scratching sounds from inside and zero

and liftoff for the final launch of

Endeavour expanding our knowledge

expanding our lives in space space

shuttle Endeavour lifted off Monday from

the Kennedy Space Center for the

International Space Station and STS 134

commander Mark Kelly and his five

crewmates began their mission with a

picture-perfect launch at 8:56 a.m.

Eastern before a crowd of thousands lead

singer Bono dedicated their

award-winning hit beautiful day to


Kelly's wife congresswoman Gabby

00:04:39,168 --> 00:04:43,969
Giffords who is recovering from a gunshot wound Wow Kelly enthusiastically greeted the crowd and sent a

00:04:41,120 --> 00:04:45,889
heartwarming message to his wife and a pre-recorded message from his time aboard the International Space Station

00:04:43,970 --> 00:04:48,259

00:04:45,889 --> 00:04:49,939

00:04:48,259 --> 00:04:51,710
aboard the International Space Station during a mission sts-134

00:04:51,709 --> 00:04:56,138
in a history-making event from the Vatican Pope Benedict the sixteenth

00:05:00,189 --> 00:05:04,779
spoke with the expedition 27 and sts-134 crews working on orbit aboard the International Space Station from your excellent observation print how do you see situation on earth do you see

00:05:08,829 --> 00:05:11,589

00:05:11,589 --> 00:05:16,779
excellent observation print how do you see situation on earth do you see
science of phenomena to which we need to
be more attentive well your holiness
it's it's a great honor to speak with
you and you're right it really is an
extraordinary vantage point we have up
here on the one hand we could see how
indescribably beautiful the planet that
we have been given is but on the other
hand we can really clearly see how
fragile it is those newly released
images of a space shuttle docked to the
International Space Station are the
first taken from the perspective of a
Russian Soyuz spacecraft on May 23rd
European Space Agency astronaut Paolo Nespoli took the pictures and video of the ISS and endeavour on STS 134 Nespoli along with Russian cosmonaut Dmitry Kondratyev and NASA astronaut Cady Coleman were aboard the Soyuz that had just undocked from the station and was about to carry them back to earth and burning 210 and liftoff the final liftoff of Atlantis shoulders of the Space Shuttle America will continue the dream space shuttle Atlantis lifted off from launch pad 39a at the Kennedy Space Center on July 8th.
to begin sts-135 the final mission of NASA's Space Shuttle program landing gear down and locked after more than 30 years NASA's shuttle era has come to a close Atlantis made a picture-perfect pre-dawn landing at the 200th orbit of Earth brought safely home after 13 days of stocking up the International Space Station for the post-shuttle era was the sts-135 crew commander Chris Ferguson pilot Doug Hurley and mission specialists sandy Magnus and Rex Walheim in spaceflight
history the date April 12th is special

on that day in 1981 the first shuttle mission sts-1 began with the launch of Columbia from the Kennedy Space Center

Administrator Charles Bolden led a commemorative program at Kennedy to honor the space shuttles workforce for its invaluable contributions into space exploration over the past 30 years.

I want to thank each and every one of you and the many others in the shuttle workforce over the years for your significant contribution to this tremendous American accomplishment.

you've inspired a generation help make
the world a better place and given us a roadmap for future space exploration

Bolden also announced the four locations at which the orbiters Atlantis discovery endeavour and enterprise will spend their retirement on permanent display with the shuttle retired NASA and its commercial partners continued development of new ways to get astronauts and cargo to the International Space Station this engine test the successful test fire of Aerojet corporation's aj26 flight engine was one of several events
at which NASA senior leaders showed support for their commercial space flight partners the whole NASA family is really proud whenever we're able to do something like this we work every day to try to reach new heights because we look to reveal things that are previously unknown so that we can make life better here on earth the aj26 will power the first stage of Orbital Sciences corporations tourists to space launch vehicle nASA has partnered with orbital through the agency's ongoing commercial orbital transportation services
initiative under COTS orbital is scheduled to provide eight commercial cargo flights to the International Space Station beginning early next year NASA has awarded more than 269 million dollars for the continued development of commercial transportation systems to carry astronauts to and from low-earth orbit for US companies Blue Origin of Kent Washington the Sierra Nevada Corporation Louisville Colorado SpaceX of Hawthorne California and the Boeing Company in Houston received the awards in the second round of NASA's Commercial
Crew development for cici death efforts

so many people on both the government

and industry teams were so very hard to

build this wonderful high-tech facility

Administrator Charles Bolden was joined

by Senator Barbara Mikulski of Maryland

and other dignitaries for the unveiling

of the Wallops Flight Facilities new

horizontal rocket integration facility

for hit the genius of the private sector

working with government is going to lead

the way in commercial spacecraft to take

cargo to the space station so the space

station can continue the innovation in

Discovery be the National Laboratory in
the sky
today I’m happy to announce that the
Boeing Company has selected Florida for
its Commercial Crew program office a new partnership has been formed between NASA and space Florida to occupy use and modify the Kennedy Space Center's orbiter processing facility opf 3 the Space Shuttle main engine processing facility and processing control center the 15-year use permit deal is the latest step Kennedy is making in its transition from a historically government-only launch complex to a
multi-user spaceport Kennedy and the entire Space Coast have been synonymous with NASA's historic 30-year shuttle program as well as America's first 50 years in human spaceflight and the agreement that we've reached today was face work Florida will help set up an even brighter future space Florida the state's aerospace economic development agency is leasing of 3 to the Boeing Company to manufacture and test the company's crew space transportation spacecraft development of the cst-100 a reusable capsule-shaped spacecraft to
transport up to seven people or a
combination of people and cargo to space
is expected to create as many as 550
jobs along the Space Coast
Space Exploration Technologies or SpaceX
is scheduled to launch its Dragon spacecraft on its second commercial
orbital transportation services
demonstration flight in February pending
completion of final safety reviews
testing and verification SpaceX might
also send dragon to rendezvous with the
International Space Station
with travel to low Earth orbit covered
commercially NASA is freedom to send

humans to explore new destinations

beyond such as asteroids the moon and

eventually Mars the next chapter of

America's space exploration story is

being written today Administrator

Charlie Bolden was on Capitol Hill for

the announcement of NASA selected design

of its new Space Launch System

the new heavy-lift rocket will take NASA

astronauts farther into space than ever

before the booster will be America's

most powerful since the Saturn 5 rocket

that carried Apollo astronauts through

the moon and will launch humans to
places no one has gone before we've gotten the earth asteroids to go look at possible visits to the moon Lagaan Gian points higher Earth orbit geosynchronous out there we just have to sort out what makes sense administrator Charlie Bolden led members of the media on a tour of NASA's new mobile launcher at the Kennedy Space Center Center Director Bob Cabana and other Kennedy management joined Bolden to discuss NASA's Space Launch System the SLS is the agency's heavy lift rocket this is one of three successful drop
tests of NASA's next deep space exploration vehicle conducted this summer at the Langley Research Center's new 1.7 million dollar hydro impact basin. One go NASA Langley held an official ribbon-cutting ceremony for the new facility that expands the center's capabilities to test and certify future spacecraft for water landings. The lander facility and the vast experience of its langley staff provide a perfect combination to study the Orion multi-purpose crew vehicle.
options for returning to Earth Assembly

of the first j-2x dubbed engine 10001 is

in full swing at NASA's Stennis Space

Center the j-2x is designed to be a

highly efficient and versatile rocket

engine and has the ideal performance

characteristics to power the upper-stage

of a heavy lift launch vehicle

and NASA conducted its latest test

firing of the j-2x rocket engine the

next-generation engine will help propel

a ride beyond low-earth orbit this test

is to give engineers a better

understanding of start and shutdown
procedures and the engines performance

after modifications were made since previous test firings 2011 was another banner year for science for new NASA missions were launched and contributions by seasoned stalwarts of science exploration added to our understanding of life here on earth and what lies beyond these photos have been already a great revelation to the team about what the surface is like we did not imagine the detail that we're seeing newly captured full-frame images of the asteroid Vesta were unveiled by the dawn mission team at a Jet Propulsion

NASA - Discovery, Innovation and New Destinations Highlight "This Year @NASA"
Laboratory news conference Vesta is much larger than the state of California and it has some very exciting new morphological features and Composition. Features that you'll be hearing about which had some light about how our solar system actually was formed the dawn spacecraft was successfully inserted into the giant asteroids orbit several weeks ago and has since begun collecting scientific data and liftoff of the Atlas 5 with Juno on a trek to Jupiter the wait is over and launch teams are celebrating the successful liftoff of
the Juno spacecraft from the Kennedy Space Center as it begins a five-year cruise to the planet Jupiter to investigate the planet structure at its atmosphere and magnetosphere. It will also provide detailed images of Jupiter’s surface and capture the first high-resolution views of its poles. We're on our way and you know at this point the spacecraft’s out it's open the solar arrays are open we're flowing our electricity through the veins of Juno. These dark finger-like features extending down some Martian slopes could...
be flowing water occurring during the warmest month on the planet Mars. NASA's Mars Reconnaissance Orbiter has been repeatedly tracking and observing seasonal changes in these recurring patterns in Mars' southern hemisphere. We have followed the water and we have found repeated and predictable evidence suggesting water flowing on Mars this discovery which was discussed at a press briefing held at NASA headquarters could be vital to continued studies on whether life could exist on the Red Planet according to scientists, the flow of
liquid briny water is the best

386
00:17:52,808 --> 00:17:57,788
explanation thus far for these dark

387
00:17:55,419 --> 00:17:59,700
lineage which spread down some Martian

388
00:17:57,788 --> 00:18:02,950
slopes during late spring through summer

389
00:17:59,700 --> 00:18:09,870
fade in winter and then return during

390
00:18:02,950 --> 00:18:13,110
the next spring three two one zero and

391
00:18:09,869 --> 00:18:15,819
liftoff of the delta ii with grail

392
00:18:13,109 --> 00:18:17,829
journey to the center of the bone a

393
00:18:15,819 --> 00:18:19,298
delta ii rocket launched from Cape

394
00:18:17,829 --> 00:18:22,480
Canaveral Air Force Station in Florida

395
00:18:19,298 --> 00:18:25,028
has sent the twin Grail spacecraft on

396
00:18:22,480 --> 00:18:27,250
their way to the moon the two spacecraft

397
00:18:25,028 --> 00:18:29,470
will fly in tandem orbits around the

398
00:18:27,250 --> 00:18:31,869
moon for several months to measure its

399
00:18:29,470 --> 00:18:35,528
gravity field in unprecedented detail
from crust to core the mission also will answer long-standing questions about the moon and provide scientists with a better understanding of how Earth and other rocky planets in the solar system formed on November 26th at 10:02 a.m. Eastern Standard Time NASA's Mars Science Laboratory Curiosity rover launched aboard a United Launch Alliance Atlas 5 rocket from Cape Canaveral Air Force Station in Florida MSL is scheduled to reach the red planet next August at a site known as Gale Crater curiosity Rover's 10 instruments will
investigate whether that area of Mars could have ever sustained microbial life.

also sent aloft was the aquarius/sac-d spacecraft roaring up the launch pad at Vandenberg Air Force Base in California.

NASA built Aquarius the spacecraft's primary instrument will analyze the oceans for their comparative levels of salinity or the water saltiness a major factor in the flow of currents that ultimately affect climate the nation's newest earth-observing satellite has begun its mission the National
polar-orbiting operational environmental satellite system preparatory project or NPP was launched from Vandenberg Air Force Base in California heralding a new era of climate change science and weather forecasting for the United States data from NPP will enable the National Oceanic and Atmospheric Administration to continue issuing accurate forecasts and provide advance warning for severe weather for the first time NASA funded researchers have created a complete map showing the speed and direction of ice flows throughout
Antarctica this animation demonstrates how ice is naturally transported from the continents deep interior to its coasts the red and purple areas represent the fastest flowing ice the map was created using integrated radar our observations from a consortium of international satellites the map gives scientists not only a better understanding of how ice sheets flow but also how the ice might react to climate change and affect future sea level several crafted NASA's fleet of Earth observing satellites have captured these images of severe flooding along the
Mississippi River Basin so far nearly three million acres in Arkansas.

Tennessee and Mississippi have been affected by severe springtime rains the Mississippi River Basin is third largest in the world and managing floods in this area has been a challenge for more than a century more than 34 years after its launch NASA's Voyager 1 spacecraft has entered a new region between our solar system and interstellar space data is obtained over the last year suggests this new region is a kind of cosmic purgatory where the solar wind is calm.
our solar system's magnetic field piles up and higher energy particles appear to leak from our solar system into interstellar space although Voyager 1 is about 11 billion miles from the Sun it has yet to cross one major spacefaring threshold we're very close to the edge of interstellar space now unfortunately our models are not accurate enough to tell us how close so it could be a few more months or it could be a few more years but Voyager 1 is moving out a billion miles every three years so we shouldn't have too long to wait to find
out what's outside NASA's Hubble Space Telescope has discovered what astronomers believe is the most distant object ever seen in the universe the dim object is a tiny compact galaxy of blue stars that existed 13.2 billion years ago roughly 150 million years farther back in time than the previous record-holder the age of the universe is 13.7 billion years the tiny galaxies so small that more than a hundred similarly-sized galaxies would be needed to make up our Milky Way galaxy was discovered by Hubble's Wide Field Camera
3 installed in 2009 during the last 500 space shuttle servicing mission to the 501 telescope 502 this is the first time we really are 503 pinpointing when these black holes were 504 really forming and growing NASA's 505 science Mission Directorate conducted 506 two news conferences to update the media 507 on progress and developments in the 508 Chandra x-ray observatory and messenger 509 missions the first of the two provided a 510 look at new pictures and data collected 511 by Chandra black holes are the last 512 evolutionary stage in the lifetimes of 513 stars there were once at least 10 to 15
times as massive as our own Sun these
cold remnants are extremely dense
exerting a gravitational pull so strong
that nothing not even light can escape
their grasp at a press conference held
at NASA Ames Research Center the Kepler
team announced the discovery of its
first confirmed planet in the habitable
zone or the region around a star where
liquid water could exist on a planet's
surface named kepler-22b the planet is
about 2.4 times the radius of the earth
and orbits a sun-like star about 600
light years away between the
constellations of Cygnus and Lyra but

still I think that's most exciting to me

is that fact that we have finally after

looking at all these candidates spending

all this effort that we could confirm a

planet in the habitable zone

that's nearly earth sized scientists

don't know yet if Kepler 22b has a

predominantly rocky gaseous or liquid

composition but its discovery is a step

closer to finding earth-like planets

NASA's aeronautical innovators continued

in 2011 to lay the foundation for the

future of flight by exploring new ways
to manage air traffic, build more fuel, efficient and environmentally friendly airliners, and ensure Aviation's outstanding safety record 

airplane passengers and people living near airports are all too familiar with the noise associated with air travel after years of work and research with partners in industry and academia, NASA has developed a noise reduction technology called Chevron's Chevron's the sawtooth pattern on this jet engines trailing edges can significantly reduce the noise caused by commercial jet
airplanes it's not every day that a

maritime v-22 Osprey lands at a convention

center parking lot the tiltrotor made a

special appearance at the American

helicopter Society forum in Virginia

Beach Virginia the annual event is where

the who's who in rotorcraft research and

technology showcased the latest in

vertical flight among the presentations

31 papers from researchers at NASA's

Langley Ames and Glenn Research Center's

the Ames Research Center recently

completed a series of tests that may

help take some of the loudness out of

sonic booms and allow supersonic
aircraft to fly over land inside Ames

nine foot by seven-foot supersonic wind tunnel fans or compressors moved air

over a sleek new aircraft design at speeds replicating flying conditions tests like these help researchers understand the forces acting on a real aircraft and its impact like the creation of a sonic boom on the surrounding atmosphere NASA also broke new ground and how it reaches out to the next generation of space enthusiasts winning kudos for its successful use of the web Facebook Twitter and other
popular social media

a group of 55 science and space enthusiasts who follow the NASA Ames Twitter account were invited to NASA Ames Research Center to participate in an event called a tweet up these tweets or people who use Twitter were given a rare opportunity to tour the labs at NASA Ames listen to presentations and get answers to their questions from researchers who work at the center social networking is really critical as we move forward as a country this is an increasing way where the public
particularly the interested public can participate and ride with us as we do the wonderful things we do at NASA Elmo monster one of the most popular characters on television came from Sesame Street to the Kennedy Space Center to talk with NASA experts like Leland Melvin astronaut and NASA's associate administrator for education and here's the external tank the big horn to take this falls back into the ocean and burns up he also participated in a Tweetup with Astro mines aka Mike Massimino and
Astro wheel the handle does wila

614 00:27:47,319 --> 00:27:56,139
Elmo did you touch anything once again

615 00:27:53,200 --> 00:27:58,059
nASA has been recognized for several of

616 00:27:56,140 --> 00:28:01,000
the world's best internet sites by

617 00:27:58,059 --> 00:28:03,609
winning two webby awards nasa.gov

618 00:28:01,000 --> 00:28:06,069
received its third consecutive People's

619 00:28:03,609 --> 00:28:08,949
Voice award for best government website

620 00:28:06,069 --> 00:28:11,379
and NASA's global climate change site

621 00:28:08,950 --> 00:28:14,200
last year's People's Voice Award winner

622 00:28:11,380 --> 00:28:17,140
for science captured this year's judges

623 00:28:14,200 --> 00:28:20,559
award for best science site created in

624 00:28:17,140 --> 00:28:24,880
1996 the webby award honors excellence

625 00:28:20,559 --> 00:28:28,389
in online technology and creativity it's

626 00:28:24,880 --> 00:28:30,220
an honor to be here our ships have come

627 00:28:28,390 --> 00:28:32,740
in and seen a rocket leave the planet
helping Melvin count the importance of inspiring our youth above stem-based careers was entertainer will I am of the musical group the Black Eyed Peas an avid fan of robotics will and Melvin were interviewed by TV stations and networks throughout North America when you think of tomorrow and the people that are going to be leading the way it's the youth that we have right now NASA continued its mission to promote student education and science technology engineering and math disciplines so
00:29:02,960 --> 00:29:09,319
vital to the future of NASA and our

00:29:05,480 --> 00:29:11,509
nation teenagers around the world are

00:29:09,319 --> 00:29:14,000
ramping up their engineering skills with

00:29:11,509 --> 00:29:16,099
the start of the 2011 FIRST Robotics

00:29:14,000 --> 00:29:18,140
Competition high school students from

00:29:16,099 --> 00:29:19,819
Southeast Virginia filed into the

00:29:18,140 --> 00:29:22,340
Virginia Air and Space Center in Hampton

00:29:19,819 --> 00:29:24,710
January 8th to learn more about this

00:29:22,339 --> 00:29:27,250
year's challenge they watched as

00:29:24,710 --> 00:29:29,750
speakers and a live broadcast on NASA TV

00:29:27,250 --> 00:29:33,409
unveiled the requirements for logo

00:29:29,750 --> 00:29:37,038
motion build a robot and mini bot that

00:29:33,409 --> 00:29:42,470
can move and climb we have the promise

00:29:37,038 --> 00:29:45,470
Academy the excitement and inspiration
of space exploration was the subject of

a special forum held in New York to celebrate Women's History Month NASA's deputy administrator Lori Garver and associate administrator for education and former astronaut Leland Melvin attended the event at the Steven Y studio in Greenwich Village to meet with 200 young women from middle and high schools in the city NASA is a wonderful wonderful place that is making a difference in people's lives every day. Our satellites look back on the planet to help us learn what's happening with
our own planet so that we can have a

more secure future co-sponsored by

fashion designer Donna Karan's Urban Zen Foundation and the foundation for

advancing women now founded by singer

mary j blige the event encouraged the

students to consider careers in the STEM fields of science technology engineering

and math NASA spin-offs are the subject of two new public service announcements

airing on NASA TV

the first features l6 4:09

eye from Sony Pictures new film arthur

christmas our animated protagonist

illustrates how nasa develop space
technologies are making our lives better

here on earth hi I'm Norah Jones and I'm

PS Ellis and Grammy winning singer

songwriter nor jobs teams up with

astronaut piers sellers on the second

PSA

NASA's 2011 included remembrances of

milestones past among them the 50th

anniversary of the flight of the first

American in space Alan Shepard first

time we ever put anybody into space and

I was a good person to represent us on

that he was outstanding and he he

deserved it we're always proud of him
the 10th anniversary of 9/11 and the unique perspective then offered us by NASA astronaut and expedition 3 commander Frank Culbertson aboard the International Space Station. I realized our country was under attack. I was ironically halfway through the Tom Clancy novel about a similar situation at the time and it almost put me inside the novel which was a very strange feeling but then I saw it out the window and we took video as the second tower was collapsing I didn't know exactly what was happening but I knew it.
was really bad because there was a big cloud of debris covering Manhattan that's when it really became painful because it was like seeing a wound in the side of your country and as marked by the award of the Congressional Gold Medal the contributions of John Glenn and the crew of Apollo 11 thank you all very very much we must consider ourselves among the most fortunate of all generations where we have lived at a time when the dream became a reality when we finally could travel above the
atmosphere around the earth where we could establish laboratories in space and do research and for the very first time in history leave human footprints on someplace other than Earth if Paulo 11 crew is honored to receive the Congressional Gold Medal and accept on behalf of our fellow Apollo teammates all those who played a role in expanding the human presence outward from Earth but 2011 also established new milestones for our future including NASA's green flight challenge producing the world's most beautiful aircraft in the skies above Santa Rosa California three flight
teams competed in the Kafe green flight
challenge for the title of most fuel-efficient aircraft in the world the NASA provided purse for this accomplishment 1.65 million the largest aviation prize ever offered the challenge to fly 200 miles in less than two hours using less than one gallon of fuel per occupant or an equivalent amount of electricity the appeal to our next generation of explorers with a new NASA powered radio channel on the Internet welcome to third rock radio powered with NASA we focus on stem and
we've all learned that STEM is the science and technology and engineering and math to remind young adults that a career in that direction is a great way to have a wonderful life possibly end up with a career at NASA and the nonprofit Center for the Advancement of science and space cases was selected by NASA to manage the US National Laboratory aboard the International Space Station and its promise of new discoveries for the benefit of all humankind located in the space life sciences laboratory at the Kennedy Space Center in Florida
the independent nonprofit research management organization well help ensure the station's unique capabilities are available to the broadest possible cross section of the US scientific technological and industrial communities and on that note provided by Cady Coleman and Jethro Tull founder Ian Anderson we say goodbye to 2011 from understanding our earth to new clues about possible life elsewhere from fostering life's changing research and space to sharing our vision of the
future with those destined to journey

00:35:38,179 --> 00:35:43,879
view from the end of one monumental

00:35:41,059 --> 00:35:45,710
mission to the beginning of a new era in

00:35:43,880 --> 00:35:50,630
the human exploration of our solar

00:35:45,710 --> 00:35:57,250
system that was this year @nasa for more

00:35:50,630 --> 00:36:01,160
on these and other stories log on to WWE

00:35:57,250 --> 00:36:05,619
may your exploration of 2012 be happy

00:36:01,159 --> 00:36:05,618
healthy and full of wonder and discovery