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YEAR 1998 HEADLINES

No.	Field	Date & Title
133.	Comets & Meteors	Dec 28: January's chilly meteors - The Quadrantid meteor shower peaks on Jan. 3 1999
132.	Space Exploration	Dec 24: Interplanetary Christmas - Santa discusses his plans for Christmas on future space colonies.
131.	Comets & Meteors	Dec 22: The Ghost of Fireballs Past - Amateur radio operators capture eerie-sounding radar echos from Geminid and Leonid meteors.
130.	Asteroids	Dec 16: NEAR spacecraft may find asteroid needs dusting - Scientists at Marshall think that asteroids may scoop up dust from space over the eons, giving themselves dust blankets up to a meter thick. Asteroids, too small to exert enough gravity to capture the dust, may instead attract it with static electricity, providing a storehouse of primordial matter in the solar system and suggesting an intriguing twist on planetary formation theory.
129.	Comets and Meteors	Dec 15: Bunches of Geminids - Last weekend observers around the globe were treated to one of the strongest Geminid meteor showers ever. Next year could be even better. This article includes a video clip of Geminid and Leonid meteors streaking through the constellation Orion.
128.	Astrophysics	Dec 11: Interstellar burp leads to discovery of new pulsar - Astrophysicist makes her second discovery of an astrophysical oddity - a pulsar orbiting a massive star.
127.	Microgravity Science	Dec 10: Laboratory under construction - NASA/Marshall biotechnology may get an early start on ISS.

126.	Auroral Physics	Dec 8: Solar Wind blows some of Earth's atmosphere into space - The northern lights are more than beautiful; they are indicators of powerful storms strong enough to drive some of Earth's upper atmosphere right into space!
125.	Comets and Meteors	Dec 4: The Mysterious Geminid Meteor Shower - On December 13, 1998, fragments of a curious object called 3200 Phaethon may produce a beautiful sky show
124.	Astrophysics	Dec 3: The frosty plains of Europa - As Galileo returns new images of Europa, NASA scientists prepare to study samples from a potentially similar environment here on Earth.
123.	Astrophysics	Dec 1: The one-man band of astrophysics - An unusual x-ray pulsar bursts, pulses, and puzzles astronomers.
122.	All	Nov 25: Highlights of NASA/Marshall science in 1998 - Here we present the highlights of our research for 1998.
121.	Comets and Meteors	Nov 23: Leonids Sample Return payload has been found - Scientists are examining the aerogel 'comet-catcher' for traces of Leonid meteoroids.
120.	Climate Science	Nov 20: Cities Getting Ready for Next Heat Wave - Results applied from Urban Heat Island Pilot Project.
119.	Comets and Meteors	Nov 19: Early Birds catch the Leonids - Shower peak occurred more than 14 hours ahead of schedule.
118.	Comets and Meteors	Nov 17: Up, Up, and Away to the Leonids - Science Balloon Captures Eight Fireballs on Video from 100,000 Feet Up.
117.	Comets and Meteors	Nov 16: The Leonid Sample Return Mission - NASA Scientists hope to capture a Leonid meteoroid to look for the stuff of life in comet Tempel-Tuttle.
116.	Comets and Meteors	Nov 16: NASA spacecraft take cover from the Leonids - But the Hubble space telescope will keep on observing.
115.	Comets and Meteors	Nov 16: Bugs on the Windshield - NASA Scientists are launching an airborne mission over Japan to look for the stuff of life in Leonids meteors.
114.	Comets and Meteors	Nov 10: Great Expectations - On the morning of November 17th, bits and pieces of periodic comet Temple-Tuttle will begin to hurtle into Earth's atmosphere at a head-spinning 158,000 mph. The resultant Leonids' sky show may rival the brilliant storm of

		1966 in some locations on Earth.
113.	Science Communications	Nov 10: Science Communication: Making research valuable to everyone - We all receive and use science information daily, to some degree. How we get it, use it, and how communication adds value to taxpayer investments in science are some of the subjects of new research by a blue-ribbon panel. The panel presents results from some of their research to date.
112.	Solar Physics/STS-95	Nov 5: A Tale of Two Mysteries on shuttle Discovery - What do the Little Ice Age and the solar corona have in common? They were both the target of science experiments on shuttle Discovery earlier this week.
111.	Microgravity Science / Biology	Nov 4: Space Travel Increases Some Health Risks - This week's Mir Science Results Symposium discusses changes in the human body resulting from space flight.
110.	Microgravity Science/STS-95	Nov 3: The Physics of Orange Juice - Shuttle experiments target the behavior of fluid mixtures in microgravity.
109.	Microgravity Science/STS-95	Nov 3: Breathing easier, living longer are goals of Shuttle experiments - Protein crystal growth experiments continue on STS-95.
108.	Microgravity Science	Nov 3: First phase of Shuttle-Mir science harvest to be discussed - Interim science results symposium this week in Huntsville.
107.	Microgravity Science/STS-95	Oct 30: One small switch for a man... John Glenn will activate an experiment later today that could revolutionize the computer industry and much more.
106.	Magnetospheric Physics/Aurora	Oct 30: New tools for the new millennium - Satellites will slice and dice the magnetosphere to reveal its structure.
105.	Astrophysics/STS-95	Oct 29: Astronomy goes into orbit with John Glenn - Shuttle Discovery is carrying a battery of telescopes to study the sun, planets, and supernovae during the STS-95 mission.
104.	Magnetospheric Physics/Aurora	Oct 29: A Weatherman in Space... NASA plans to launch an orbiting radar for better space weather forecasting. This story includes RealVideo of space storms and the sun-Earth connection.

103.	Magnetospheric Physics/Aurora	Oct 28: All the world's a stage, and the ions merely players... - Scientists use virtual satellites to explore Earth's magnetosphere.	
102.	Magnetospheric Physics/Aurora	October 27: Seeing the invisible - New data on Earth's magnetosphere is slowly turning the invisible into the visible, revealing more about space weather.	
101.	Microgravity Science/STS-95	October 26: Right Stuff for the Super Stuff - John Glenn will conduct tests with a space age super-substance called aerogel on STS-95.	
100.	Astrobiology	October 22: Callisto makes a big splash - Scientists may have discovered a salty ocean and some ingredients for life on Jupiter's moon.	
99.	Space Weather	October 22: Scientists to explore what they know about space weather - Conference in Alabama will bring scientists from all over the world to discuss the invisible, but very active, magnetosphere of Earth.	
98.	Astrophysics	October 21	When stars go hyper - Scientists thought they understood supernovae - the death throes of huge, exploding stars. However, a new kind of supernova, far too bright to be an "ordinary" supernova, confounds current theories.
97.	Comets and Meteors	October 20	Halley's comet returns in bits and pieces - Bits of Halley's comet make a reappearance Oct 21 and 22 during the the 1998 Orionids meteor shower. Debris particles from Halley will strike the Earth's atmosphere at 90,000 mph and cause as many as 20 shooting stars per hour.
96.	Solar Physics	October 19	Sunspot activity increases - As the sun approaches solar maximum, NASA scientists report that the sunspot cycle is closely following their prediction.
95.	Auroral physics	October 16	Surprising gap in auroral oval puzzles scientists - Opening in the nightside aurora borealis may be linked to events in space.
94.	Physics and Propulsion	October 15	Plugged in to space - A proposed flight demonstration, using floating tethers for propulsion, will show how to keep space clean - and boost satellites.

93.	Solar Physics	October 14	"Sunquake" telescope appears to be OK - The Solar and Heliospheric Observatory (SOHO) instruments are getting checked out after SOHO's deep-freeze. First look is encouraging.
92.	Astrophysics	October 14	Giacobinids dazzle observers - Outburst occurred over Japan, East Asia.
91.	Astrophysics	October 13	Gamma-ray Bursters cross the 'Line of Death' - A study of gamma ray burst spectra shows one more thing that these mysterious, cosmological gamma ray bursts are <i>not</i> .
90.	Solar Physics	October 9	SOHO opens its eyes - Scientists await word on a key instrument as NASA and ESA continue their spacecraft recovery efforts.
89.	Astrophysics	October 7	Tune-up for the Leonids - This week, comet Giacobini-Zinner could shatter the calm before the Leonid meteor storm. The Giacobinids should be visible early in the evening on Thursday October 8th. We discuss how to view the shower, the structure of comet debris streams, and "radio" meteors. Amateur meteor watchers are also invited to submit meteor counts to NASA to help study the composition of the comets trail of debris.
88.	Education/Outreach	Oct 6, 1998	Workshop will take teachers and students to edge of universe and back - A 2 day workshop in Huntsville AL, open to high-school teachers and their students, hopes to capture students' imagination and help steer them toward a lifelong love, and perhaps career, in the space sciences.
87.	Solar Physics	October 5	Staring directly at the Sun: That's where the science is - A new instrument, <i>JASMIN</i> , may provide new views of the Sun from space and help solve heating mysteries currently puzzling scientists.
86.	Astrobiology	October 2	Galileo takes a close look at icy Europa - The spacecraft flew within 2300 miles of the mysterious satellite last weekend.

			Scientists hope to learn more about Europa's frigid oceans and the possibility of life on that distant planet.
85.	Biology	October 1	NASA using space incubator to understand breast cancer - Bioreactor research could help women's health on Earth and in space.
84.	Astrophysics	September 29	Crusty young star makes its presence felt - Gamma ray flash zaps satellites, illuminates Earth, and sheds light on several mysterious stellar events.
83.	Climate Science	September 28	NASA takes two more glimpses of hurricane George - ER-2 makes an extra flight for CAMEX
82.	Climate Science	September 23	Hurricane Georges puts on a light show - CAMEX team treated to purple sprites and weird lightning on the last flight of the mission.
81.	Climate Science	September 21	The last hurricane - CAMEX team wrapping up campaign with flights into Georges.
80.	Climate Science	September 18	Hurricane research team stays busy - Team flies 4 missions in 5 days, collecting humidity information in clear air, and oceanic convection data.
79.	Microgravity Science	September 17	Nature's "electronic ink" - A bacterium which thrives in high-salt conditions produces a fascinating protein which changes color extremely efficiently. Crystals grown by Spacelab make scientists hopeful that they can understand the biological function and apply it to, for example, artificial retinas for people.
78.	Microgravity Science	September 16	Great Bugs of Fire - Spacelab crystallizes a protein from a very weird, and surprisingly common, volcano-loving bug. Scientists hope to discover how these bugs can survive in such extreme conditions.
77.	Climate Science	September 15	Hurricane Season passes its prime - Thunderstorm studies continue as a new

			hurricane candidate wends its way from Africa.
76.	Microgravity Science	September 14	Nature's sugar high - Spacelab successfully crystallizes an intensely sweet protein that has 3000 times the kick of table sugar - and no calories.
75.	Climate Science	September 10	NASA team awaits next hurricane - With 3 hurricanes so far, the CAMEX team gathers valuable data on thunderstorms while waiting for the next big one.
74.	Climate Science	September 4	Hurricane teams probe ahead of Earl - NASA team studies rain intensity before landfall; NOAA team studies storm surge and wind field at landfall.
73.	Climate Science	September 2	Bonnie cuts a towering figure -Satellite radar shows a mountainous cloud chimney during the hurricane - twice as tall as Mt. Everest.
72.	Astrophysics	September 2	The heavy metal hit parade of cosmic rays -A powerful new instrument could point scientists to the source of mysterious, cosmological, gamma-ray bursts.
71.	Astrobiology	September 1	Earth microbes on the moon - Three decades after Apollo 12, a remarkable colony of lunar survivors, who hitchhiked a trip to the moon on Surveyor 3 - unprotected - are reexamined.
70.	Climate Science	August 31	Quite a Windfall - Hurricane team completes the first half of their unique science campaign, and has a wealth of new data.
69.	Climate Science	August 28	Preparing for hurricane Danielle - NASA team rests after "quite incredible" work with Bonnie
68.	Environmental Science	August 27	American, Russian teachers learn how to teach students to measure the GLOBE - A team of American and Russian teachers has completed a week of training in Russia with a Russia-based Peace Corps volunteer to extend the reach of scientists who need air, water, and soil measurements from around the world.

67.	Climate Science	August 26	Camera of many colors - The CAMEX teams fly into Bonnie again this morning - and we get to take a look at the advanced instruments used on the flights and some brand-new storm data.
66.	Climate Science	August 25	Snow in August - Hurricane Bonnie has some surprises for NASA and NOAA researchers as the hurricane teams make their second flight into the eye.
65.	Climate Science	August 24	Eye-to-eye, and Bonnie winks - All three NASA and NOAA aircraft teams make first sortie to hurricane Bonnie and get to study her structure at the same time.
64.	Climate Science	August 22	Now a hurricane, Bonnie may force evacuation of the hurricane hunters to a safer base but science operations are underway
63.	Climate Science	August 21	CAMEX hurricane hunters prepare to take data from T.S. Bonnie
62.	Climate Science	August 20	First CAMEX-3 hurricane brewing in mid-Atlantic - Scientists may get the chance to study Bonnie, which may develop into a full-fledged hurricane this week.
61.	Climate Science	August 18	Aircraft make second flight with TRMM - CAMEX-3 status report
60.	Climate Science	August 14	CAMEX aircraft make test runs - CAMEX flies over tropical storm weather in successful calibration run.
59.	Climate Science	August 13	Calibration flight planned today - CAMEX first flight to validate Tropical Rainfall Measuring Mission satellite measurements.
58.	Climate Science	August 12	NASA, NOAA team seeks secret of hurricane's power - CAMEX - Multiple instruments will be flown in a converted spy plane and a jetliner to gather hurricane data to help predict how destructive a hurricane will grow.
57.	Astrophysics	August 5	August 5, 1998: Weak Impact: The 1998 Perseid Meteor Shower - Tiny comet debris to produce a beautiful sky show

56.	Climate Science/Education	August 4	<u>GLOBE team wraps up week of intense training</u> -- The last day of the workshop - teachers put their new-found training to the test
55.	Climate Science/Education	July 31	<u>GLOBE races to measure ground cover before goats eat research</u> -- Days #4 and #5, teachers use Landsat maps and simple materials to measure ground cover
54.	Climate Science/Education	July 29	<u>GLOBE hits the beach</u> -- Days #2 and #3, teachers practice hydrology on the Azov Sea shore
53.	Climate Science/Education	July 28	<u>GLOBE teachers arrive in Russia</u> -- Day #1 of the week-long workshop
52.	Solar Physics	July 28	<u>Radio astronomers find a lost satellite</u> - The detection of SOHO raises hopes for its recovery
51.	Climate Science/Education	July 23	<u>GLOBE to train U.S., Russian teachers</u> - Russia joins GLOBE in down-to-earth mission to record the global surface environment. Next week's workshop joins NASA scientists and Russian professors who will train U.S. and Russian teachers in the wheat and sunflower fields of summertime Russia.
50.	Climate Science	July 21	<u>Salt Lake City shows hot and cold spots</u> - Urban Heat in July: NASA's "heat hunters" measure blistering - and refreshing - areas in Salt Lake City, Utah.
49.	Microgravity Science	July 20	<u>Digging in and taking cover</u> - Lunar and Martian dirt could provide radiation shielding for crews on future planetary missions.
48.	Microgravity Science	July 15	<u>Levitating furnace holds promise for future experiments</u> - A unique levitation furnace that flew on the Space Shuttle in 1998 is being eyed for upgrades to fly on future Shuttle and International Space Station missions.
47.	Microgravity Science	July 15	<u>Microgravity takes a quantum leap -- Space Station Research may shape society in 21st Century</u> - Materials Research aboard the International Space Station will help shape society in the 21st century
			<u>Space Station will put experimenters</u>

46.	Microgravity Science	July 13	"on the rack" - Scientists present plans for fundamental experiments on board International Space Station.
45.	Astrophysics	July 9	A whole lot of shakin' going on - Starquakes lead to the discovery of a very weird kind of star - with an incredibly strong magnetic field - only the fourth ever discovered.
44.	Microgravity Science	July 9	Materials Sciences Meeting to review recent missions, preview Space Station plans - International conference next week in Alabama on Microgravity Science successes, and the future of science on International Space Station.
43.	Microgravity Science	July 9	Marshall scientists recognized for work - scientists receive international, NASA, and regional awards .
42.	Climate Science	July 1	California's capital glows - and has cool spots, too - in an aerial image taken June 29 from a study of how urban forests can help keep cities from overheating.
41.	Astrophysics	June 22	Getting a solid view of the Sun's corona - Seeing the Sun in stereo: Scientists propose using dual spacecraft to get 3-D images of magnetic structures in the Sun's corona.
40.	Biotechnology	June 11	The shape of life: How does the computer "know" when it sees it? - NASA scientists, using artificial intelligence, are teaching computers to search for life-forms in extraterrestrial rocks, and to help researchers design new pharmaceuticals.
39.	Astrophysics	June 9	Astronomy conference devotes session to gamma-ray bursts : Discovery of visible stars and afterglows where cosmic gamma-ray explosions were detected are leading to new findings.
38.	Planetary Physics	May 29	Tiniest of space bodies to get close examination : Space dust - the building blocks of stars and planets - is the center of attention in new NASA lab.
37.	Astrophysics	May 28	Giant convective cells found on Sun after 30-year search : After 30 years of searching, NASA and Stanford scientists find giant convection cells on the Sun - opening a

			new avenue for understanding the Sun and space weather.
36.	Astrophysics	May 28	Aurora Borealis acts up : Odd Auroral arc seen crossing the north pole, leaving scientists with a puzzle no model explains.
35.	Microgravity	May 27	Soil mechanics experiment yields unique results - Shuttle experiments yield new information on how soil and powders behave like liquids under low pressure like those experienced during earthquakes or the manufacture of cosmetics.
34.	Astrobiology	May 22	NASA's new Astrobiology Institute - the search for life elsewhere will begin by careful study of life growing under severe conditions on Earth
33.	Astrophysics	May 20	Magnetar discovery solves 19 year old mystery in astrophysics - puts the evolution of neutron stars and galaxies in a new light.
32.	Earth Science/Climate	May 19	Lightning likes land - NASA's lightning sensor confirms striking pattern in images taken from space.
31.	Earth Science/Climate	May 19	Baton Rouge shines in heat from urban development. NASA scientists study the phenomenon of "urban heat islands" to understand the impact of development on climate, collecting data by flying over the city with advanced thermal sensors.
30.	general interest	May 15/May19	Marshall's 1998 Open House a success
29.	Astrophysics	May 6	Blasts From the Past - A cosmic explosion of gamma-rays from near the edge of the known universe - announced today by NASA - is only the latest piece in 30-year scientific puzzle. Explore the trail of discovery that has led scientists to learn that these daily events each release more energy in 10 seconds than the Sun will emit in its entire 10-billion year lifetime.
28.	Earth Science / Climate	May 1	Islands in the (Air) Stream - The quest to understand how rapid urban growth affects local and regional weather and, potentially, the global climate is on. NASA scientists will measure thermal radiation from growing cities by flying an instrument-laden Lear jet over Baton Rouge, Sacramento, and Salt Lake City.

27.	Microgravity	April 28	Homesteading the High Frontier: Marshall Scientists Explore How To Use Local Materials - Building lunar and Martian bases from local on-site materials
26.	Earth Science / Archaeology	April 24	Students explore "ancient" site with aid of modern navigation, pictures - Students use satellites to map natural resources and to study our own history.
25.	Solar Physics	April 21	Solar flare today zaps spacecraft camera with protons - the 23rd solar cycle begins with a bang.
24.	Astrophysics	April 20	Marshall scientists recognize science fair winners - Thirteen Students receive Certificate of Excellence and Honorable Mention from the Director of Space Sciences Laboratory at the 1998 Alabama Science and Engineering Fair (ASEF).
23.	Astrophysics	April 14	Graduate Students Unveil New Web Site - In an effort to help better communicate their work and its importance, students researching a variety of astrophysics topics have unveiled their new web site .
22.	Solar Physics	April 13	Sunspot cycle will be above average but no record setter , say NASA scientists concerning the next peak in the Sun's 11 year cycle of activity.
21.	Astrophysics	April 6	Dust to dust : New laboratory studies the death of stars and the origin of planets.
20.	Storm Research	April 3	Lightning Detectors watch storms that spawned tornadoes - Lightning sensors in space and on the ground are showing the value of having a space-based network of sensors that could spot and track storms which are likely to spawn tornadoes.
			Solar Images to be made by unique X-ray telescope - A unique cluster of

19.	Solar Physics	April 2	telescopes will capture multicolored images of the sun to help understand why the sun's outer atmosphere is so hot.
18.	Climate Science	March 26	NASA link provides real-time satellite weather images : Use an interactive viewer to see the latest weather anywhere in the world! Images of visible light, infrared and water vapor are available.
17.	Physics	March 25	Scientist finds 2-in-1 burster; Pulsar goes off twice each orbit - The discovery of a unique, twice-an-orbit bursting, pulsating star yields insight on strange energetic objects in the galaxy.
16.	Physics	March 13	Exotic-looking microbes turn up in ancient Antarctic ice - Exploring a microworld locked in ancient ice.
15.	Physics	March 13	High wire act may be best way to explore Europa - Using a tether to grab power from Europa's magnetic field may allow future spacecraft to explore that intriguing moon "faster, better, and cheaper."
14.	Microgravity Sciences	March 9	It floats - New tool levitates molten materials - <i>The Electrostatic Levitator, donated by Loral Space Systems to Marshall Space Flight Center, uses static electricity to suspend small samples in this next generation of ground-based containerless processing.</i>
13.	Biology	March 5	Clues to possible life on Europa may lie buried in Antarctic ice
12.	Astrophysics	February 26	NASA/Marshall Science Laboratory Director to Address Missouri Science Teachers - <i>Science from NASA/Marshall will highlight the annual Missouri State Teachers "Interface '98" Conference on February 26, 1998, as Dr. Gregory S. Wilson addresses over 2,000 teachers from the state.</i>
11.	Astrophysics	February 23	Watching the moon's shadow - <i>While most eyes turn skyward to watch Thursday's solar eclipse (with the appropriate filters to</i>

			<i>protect your eyes) one satellite will look earthward to watch the moon's shadow race across the globe.</i>
10.	Microgravity Sciences	February 5	<u>ZBLAN continues to show promise</u> - Thin fibers of an exotic glass called ZBLAN are clearer when made in near weightlessness than on Earth under gravity's effects.
9.	Microgravity Sciences	February 4	<u>Soil mechanics make clean sweep</u> - All six test cells were processed in an experiment to study the movement of powders, grains, and dirt in the low-gravity conditions of space. The science team is hopeful that the success of this mission, and its anticipated data, will lead to a third mission to explore soil mechanics further.
8.	Astrophysics	February 2	<u>Lecture series to cover Physics for the Third Millennium</u> - Lectures on science in the next century will be held at Marshall Space Flight Center during February 9-12, 1998. Relativistic physics, and next generation propulsion techniques are among the topics.
7.	Microgravity Sciences	January 28	<u>Soil mechanics experiments near completion on STS-89</u> - Data from this experiment will be used to better understand a variety of processes, from soil shifting during earthquakes to manufacturing processes.
6.	Astrophysics	January 21	<u>Things that go bump in the night</u> - New data show accreting pulsars speed up and slow down at irregular intervals.
5.	Earth Science	January 20	<u>December 1997 is Coldest Month on Record in the Stratosphere</u> - Space-based measurements of the temperature of the Earth's lower stratosphere indicate that December 1997 was the coldest month on record since measurements of this type were begun in 1979.
4.	Microgravity Sciences	January 16	<u>STS-89 will carry five science payloads from NASA/Marshall</u> - Launch scheduled for January 22, 1998, STS-89 will carry five NASA/Marshall science payloads, two for an extended stay aboard Russia's Mir space station, two for a return from Mir, and one for operations in the

			Spacehab module during the mission.
3.	Astrophysics	January 12	Gamma-ray burst identification earns top prize - Scientist awarded Rossi prize for discovery of optical counterpart of Gamma-Ray Bursts.
2.	Microgravity Sciences	January 6	Putting the squeeze on sand will expand understanding of soil mechanics - Mechanics of Granular Materials experiment will fly on STS-89 in late January. Results of research have direct application to earthquake engineering, coastal engineering, off-road vehicle technology and other fields.
1.	Astrophysics	January 5	Gamma-Ray Bursts to take center stage at science meeting - recent research into these mysterious cosmic explosions has caused a revolution in understanding what, or at least <i>where</i> , they are.

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