

What's New? - 2011

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December 30	<p>Added to Links: Music: http://transitofvenusproject.bandcamp.com/track/morning-star Download the free song <i>Morning Star</i> by the New Zealand band Transit of Venus. This instrumental will be featured on the forthcoming Transit of Venus trailer/video.</p> <p>Added to Travel & Tours: http://www.astronomicaltours.net/2012/HawaiiTransitBR.html ICSTARS Astronomy Astronomical Tours travels to Hawaii with group leader Beverly Rother.</p>
December 21	<p>Added: Posters can be freely used to promote transit of Venus events.</p>
December 6	<p>Added to Calendar:</p> <ul style="list-style-type: none"> January 18, Rotary Club of South Bend, Wednesday Luncheon; Century Center, South Bend, IN. <i>Midwest Treasure: TROVE</i> January 11, <i>TROVE</i> meeting at 7:00 p.m. at the PHM Digital Video Theater, Mishawaka, IN. <p>Added to Latest News:</p> <p>misc/319-call-for-art-transit-of-venus-in-pastel The Northern Indiana Pastel Society (NIPS) announced a call for art for the <i>Transit of Venus in Pastel</i> exhibit; see NIPS December 2011 Newsletter.</p>
December 4	<p>Added to Education/Science and Math: education/science-math/316-activity-pixel-count Pixel Count Activity has student plot the decrease in light received from a star that has a planet transiting it.</p> <p>Added to Links: Exoplanet Transits:</p> <p>http://www.ati.ulg.ac.be/TRAPPIST/Trappist_main/Home.html TRAPPIST: TRANsiting Planets and Planetesimals Small Telescope</p> <p>Added to Links: Teacher Resources: http://transitofvenus.nl/wp/2011/11/08/classroom-activities/ Free workbook (http://www.transitofvenus.nl/files/TransitOfVenus.pdf) from Steven van Roode addresses the frequency of the transit of Venus, angular measurements, parallax measurements to establish distances, and finding the physical properties of exoplanets from light curves. Also available as hard copy.</p>
November 28	<p>Added to Where to Be: june2012/where-to-be/313-harris-branch-library-hosts-art-and-artifacts The Harris Branch Library in Granger, IN, will host a transit of Venus art exhibit by members of the Northern Indiana Pastel Society from May 1-June 9, 2012. It will concurrently host an exhibit of historical artifacts from previous transits of Venus.</p>
November	<p>Added to Calendar:</p> <ul style="list-style-type: none"> <i>Transits of Venus: Looking Forward, Looking Back</i>; abstracts for January 8 Special Session of the American Astronomical Society (AAS) History of Astronomy Division, Austin, TX; <i>Transit of Venus Culture: A Celestial Phenomenon Intrigues the Public</i>; abstract for Chuck Bueter's presentation at January 8 AAS HAD session <i>All Aboard the Transit of Venus</i>; abstract for Chuck Bueter's March 1 presentation at the Cleveland Astronomical Society. January 19, <i>Sharing the Transit of Venus</i>; NASA Night Sky Network Teleconference, 6:00 p.m. PST
November	<p>Added to Links: Music: http://www.transitvenus.com/</p>

11	Two New York musicians release 2008 album for free download under the band name Transit Venus.
November 8	<p>Added to Links: Science & Math: http://transitofvenus.nl/wp/2011/11/08/classroom-activities/ Free workbook (http://www.transitofvenus.nl/files/TransitOfVenus.pdf) from Steven van Roode addresses the frequency of the transit of Venus, angular measurements, parallax measurements to establish distances, and finding the physical properties of exoplanets from light curves. Also available as hard copy.</p> <p>Added to Links: Video & New Media: http://kepler.nasa.gov/multimedia/animations/ Kepler mission provides excellent animations of Science Concepts, Artist Concepts, and Types of Worlds.</p> <p>Added to Travel & Tours: http://www.compstar-esf.org/index.php?section=news&nid=35 Compact Star conference to be held in Tahiti - June 4-8, 2012, Arue (Tahiti), French Polynesia</p> <p>Added to 2004 Transit of Venus Images: Dr. David Hurd shows a rear-screen projection of Venus in transit, as seen from Edinboro, PA.</p> <ul style="list-style-type: none"> • http://cdn.transitofvenus.org/images/stories/hurd014.jpg • http://cdn.transitofvenus.org/images/stories/hurd015.jpg • http://cdn.transitofvenus.org/images/stories/hurd019.jpg
November 7	<p>Added to Links: Where to Be: http://sunearthday.nasa.gov/2012/about/event_locations.php Interactive map shows NASA Sun-Earth Day Event Locations, keeping you up to date on what's happening in your neighborhood. Upload your own events here, too.</p> <p>Added: GLPA Sun Funnel Workshop (Text) Workshop prepares for the next transit of Venus on June 5, 2012, with emphasis on practicing safe observing techniques and making Sun Funnel, a rear-screen projection device.</p>
November 3	<p>Added to Latest News: Michiana Sun Funnel Workshp Michiana Astronomical Society (MAS) will host a workshop to build Sun Funnels for looking at the sun safely on Monday, November 21, at 7:00 p.m. in the Lions Room of the downtown Mishawaka Branch library.</p>
November 1	<p>Added to Transit Writings: Article: Build a Sun Funnel This simple and inexpensive device makes it easy for many people to observe the sun simultaneously; co-authored with Rick Fienberg; Astronomy Technology Today, Volume 5, Issue 5, September-October 2011, pp. 57-61.</p>
October 31	<p>Added to GLPA Papers, Posters, Workshops: GLPA 2011- __Days Until the 2012 Transit of Venus Abstract: Prepare now for the 2012 transit of Venus. As June 5, 2012, approaches, anticipate a surge of public interest in the last transit of Venus in our lifetimes. Framed by the content at www.transitofvenus.org, this poster offers a brief historical perspective, will highlight abundant educational resources, and will suggest hands-on activities to bolster your transit of Venus planning.</p> <p>Added to Transit Writings:</p> <ul style="list-style-type: none"> • Transit Station at the Centennial Celebrating its 100th birthday, the US exhibits the Queenstown transit station at the Centennial International Exhibition of 1876. • Hopes and Plans on the Rise Delegates at 2011 GLPA Conference reflect on 2004 and prepare for 2012 transits of Venus. • Sun-Earth Day 2012 Launched NASA launches its flagship website for transit of Venus events.
October 24	<p>Added to Quilt: Transit Time, by Don Tuttle: http://www.transitofvenus.org/docs/Tuttle-ToVquilt.mp3 Don Tuttle describes the making of the quilt Transit Time at a talk in the planetarium at the Lakeview Museum of Arts and Sciences in Peoria, IL, in 2004.</p>
October 13	<p>Added to Links: Teacher Resources: MathPuzzler01.pdf Six introductory math puzzlers about the frequency of transits, how far Venus is from earth, and the distance from earth to the sun (Astronomical Unit); from Dr. Sten Odenwald, NASA.</p>
October 8	<p>Updated URL at 2004 Transit of Venus Images: http://trace.lmsal.com/transits/venus_2004/ 2004 Transit of Venus from the perspective of the TRACE spacecraft, including movies with time codes.</p>
September 27	<p>Added to Transit Writings: Newsletter: Don't Miss the Transit of Venus in 2012: It's Your Last Chance Until 2117 Dedicated to the transit of Venus, this newsletter issued by the Astronomical Society of the Pacific (ASP) recounts historical expeditions while looking forward to Kepler Mission findings using the transit method; The Universe in the Classroom, No. 78, Fall 2011.</p>
	<p>Added to FAQs: http://www.transitofvenus.org/faq/298-what-causes-the-black-drop-effect FAQ: <i>What causes the Black Drop Effect?</i> A simplified explanation of limb darkening and point-spread function, courtesy of Jay Pasachoff.</p> <p>Added to Transit Writings:</p>

September 26	<p>Added to Transit Writings: http://transitofvenus.nl/wp/author/chuck-bueter/</p> <ul style="list-style-type: none"> ● 1882 Sidewalk Astronomy Poet Oliver Wendell Holmes, Sr., recounts his observation of the 1882 transit of Venus as seen through the telescope of an amateur astronomer that is set up at Boston Commons. ● Hubble Telescope Participates The Hubble Space Telescope will observe the moon during the 2012 transit of Venus to measure dips in its brightness.
August 31	<p>Added to Transit Writings: Hot Times in Tahiti Though observers Joseph Banks and Daniel Solander tolerated 119 degrees on the day of the 1769 transit of Venus in Tahiti, that pales to the temperature they experienced back home in England.</p>
August 21	<p>Added to Latest News: misc/294-qr-code-for-transit-of-venus-website Stylized barcodes that link to www.transitofvenus.org; place on printed resources for easy linking by mobile app users.</p> <p>Added to Transit Writings: Blog posts from http://transitofvenus.nl/wp/author/chuck-bueter/</p> <ul style="list-style-type: none"> ● Stamps Honor Transit of Venus Postage stamps commemorate transits of Venus, with emphasis on James Cook's role. ● Pacific Meeting on Atlantic Coast Transit of Venus topic keeps popping up at Astronomical Society of Pacific 2011 Annual Meeting. ● Media Vita In Morte Sumus In the midst of celebrating transit of Venus, the 19th century parishioners of historic church deal with grief. ● Savoring the Moment in a Breeze Astronomy educator Gene Zajac facilitates memorable moment for observer of 2004 transit of Venus.
August 7	<p>Added to Links: Music: http://youtu.be/-rNQFUqt49Q Penn High School Orchestra performs John Philip Sousa's <i>Transit of Venus March</i> in 2004.</p>
July 22	<p>Added to Links: Video & New Media: http://youtu.be/wp9hslrab70 <i>IAU Talk: Transit of Venus Observations and Relics in South Africa.</i> Willie Koorts talk at the 2006 IAU meeting in Prague, presented via video in absentia, covers the full Transit of Venus history in South Africa from 1761 thru 2004.</p>
July 20	<p>Added to Links: Science and Math: http://spacemath.gsfc.nasa.gov/SMBooks/TransitMath.pdf Mathematical Problems Featuring Transit Applications, by Dr. Sten Odenwald. Transit Math book from NASA opens with dozens of math problems and answers related to eclipses, transits, and occultations, with an emphasis on transits of Venus through the centuries. Problems align with AAAS Project: 2061 Benchmarks as detailed in a Mathematics Topic Matrix. The PDF document includes summaries of the historic aspects of the transit and a diverse collection of modern images and historic images alike. Stated emphasis for Transit Introduction is on grades 3-8, while Transit Math challenges grades 5-12. "The problems were created to be authentic glimpses of modern science and engineering issues, often involving actual research data...The problems were designed to be 'one-pagers' with a detailed Answer Key as a second page."</p> <p>Added to What the Chuck...?: /misc/what-the-chuck/289-calendar Tentative calendar of transit of Venus happenings at which Chuck is presenting a paper, poster, workshop, etc.</p> <p>Added to Latest News: misc/290-transit-of-venus-brochure Transit of Venus brochure is template for a printed handout at public events.</p>
July 16	<p>Added to Transit Writings:</p> <ul style="list-style-type: none"> ● The Predictive Art of Astronomy Serendipity uncovers illustrations and text of Johann Doppelmayr's <i>Coelestis Atlas</i> that anticipate the forthcoming 1761 transit of Venus; posted July 9, 2011. ● Planning Sightlines to the Sun Watch sun's path in early July to anticipate azimuth of setting sun on June 5.; posted July 6, 2011.
July 6	<p>Added to Links: Video & New Media: http://transitofvenus.nl/wp/ Transit of Venus Project Blog, from Steven van Roode.</p> <p>Added to Transit Writings:</p> <ul style="list-style-type: none"> ● http://transitofvenus.nl/wp/author/chuck-bueter/ Blog posts by Chuck Bueter ● I saw Venus in the Sun. Eyewitness account from diary of 1882 transit of Venus; posted June 26, 2011 at www.transitofvenus.nl.
June 24	<p>Added to Links: 1761/1769: http://transitofvenus.nl/wp/past-transits/bibliography-1761-1769/ Extensive bibliography for 1761 & 1769 transits of Venus; from Robert van Gent.</p> <p>Added to Links: Teacher Resources: http://www.oocities.org/hazarry/astronomy/Modelling_and_the_transit_of_Venus.pdf Modeling and the Transit of Venus, by David Quinn and Ron Berry, University of Queensland. In this math activity, students "combine the elements we have calculated and generate a model of Venus' orbit that will allow us to identify when an</p>

	alignment will occur, and whether that alignment will result in a transit."
June 22	<p>Added to Travel & Tours:</p> <ul style="list-style-type: none"> • http://www.insightcruises.com/top_g/st03_top.html InSight Cruises is joined by Sky & Telescope's Editor in Chief Robert Naeye with optional observatory visits in Hawaii. • http://www.melitatrips.com/hawaii/index.html MWT Associates, Inc., travels to Hawaii with Astronomy Magazine's Editor Dave Eicher and astronomer Dr. Alex Fillipenko. • http://www.solareclipsetrips.com/s_pacific_hawaii2012.htm Solar Eclipse Trips (Betchart Expeditions, Inc.) visits Hawaii with Bill Nye and the Planetary Society.
June 21	<p>Added to Latest News: misc/287-poster-countdown-to-the-transit-of-venus If attending the 2011 ASP Meeting in Baltimore, MD, make-and-take in the workshop <i>How, and Why, to Facilitate Group Viewing of the 2012 Transit of Venus</i> and visit the poster <i>Countdown to the Transit of Venus</i>.</p> <p>Added to Transit Writings: http://transitofvenus.nl/wp/2011/06/20/celestial-celebrations-2/ Blog: Celestial Celebrations; seeking brewer to craft a tasty Transit of Venus sunset beer.</p> <p>Added to Links: Other History: http://image.gsfc.nasa.gov/poetry/venus/VT8.html NASA's Sten Odenwald notes some possible sightings of the transit of Venus prior to Jeremiah Horrocks, including by Assyrian, Chinese, and Aztec sky watchers.</p> <p>Added to FAQs: faq/285-where-are-more-faqs-from-nasa Where are more FAQs from NASA?</p>
June 15	<p>Added to Links: Video & New Media:</p> <ul style="list-style-type: none"> • http://www.youtube.com/user/transitvenus Venus Transit on YouTube lists videos related to the transit of Venus. See "Favorites" for diverse content. • http://365daysofastronomy.org/2011/06/05/june-5th-transit-of-venus/ Astronomer Jay Pasachoff reflects on past transits of Venus while anticipating the 2012 event and the science to be gleaned from it.
June 11	<p>Added to Links: Video & New Media: http://youtu.be/41f2gN0decg <i>UNESCO -17- Science and Illustration: The Transit of Venus</i> is a high-quality production that chronicles the challenging 18th century expeditions of Chappe, Hell, Cook and others. Video conveys the confluence of factors in the Age of Enlightenment that propelled the global quest to determine the size of the solar system; 46 minutes.</p>
June 5	<p>Added to Latest News:</p> <ul style="list-style-type: none"> • Transit of Venus Project Launches The one-year countdown to the 2012 transit of Venus begins with the launch of a new portal to Transit of Venus projects and resources. Under the aegis of Astronomers Without Borders (AWB), Steven van Roode has configured www.transitofvenus.nl to feature the many events surrounding the 2012 celestial phenomenon. • Appeal to Be Bold On the one-year countdown until the 2012 transit of Venus, Chuck Bueter solicits participants and supporters for the Transit of Venus Project, including for development of a unique Transit of Venus phone app for global users. <p>Added to Home page: <i>New Era of Discovery</i> module notes new technologies being applied to 2012 transit of Venus experience and seeks participation and support of effort spearheaded by the non-profit Astronomers Without Borders.</p> <p>One year until the 2012 Transit of Venus.</p>
June 1	<p>Added to Eye Safety: june2012/eye-safety/280-viewing-the-transit-eye-safety <i>Viewing the Transit & Eye Safety</i>, the definitive article about eye safety when viewing the transit of Venus, supported by transmittance graphs, by Dr. B. Ralph Chou, MSc, OD.</p> <p>Added to Links: Teacher Resources: http://www3.gettysburg.edu/~marschal/clea/Transitlab.html Project CLEA lab exercise enables students to observe images from the 2004 transit of Venus and use measurements of those images of the sun from three terrestrial sites to determine the distance to the sun in kilometers. Software, student manual, and full dataset are available free of charge.</p>
May 2	<p>Added to Create Your Own Stained Glass Window: Blank template for activity in which kids design roundel, choose their own words, and color in stained glass window segments.</p>
March 26	<p>Added to Latest News: misc/279-promo-for-nasa-edge-coverage-in-2012 NASA EDGE promo anticipates live coverage of 2012 transit of Venus from Hawaii.</p>
March 22	<p>Added to History: 1874-1882: Between Captain Cook and Mauna Kea: The British 1874 Transit of Venus Expedition to Hawaii, by Michael Chauvin. Excerpts from lecture by the author details the British effort to time the transit of Venus in the context of the island's changing history.</p>
	<p>Added to History: Other History: Thomas Paine's <i>The Age of Reason: Being an Investigation of True and False Theology</i>, 1794-96, was the results of his</p>

March 8	<p>years of study and reflection on the place of religion in society. In Paine's introduction to his theories on the plurality of worlds, he describes the planetary system as known at the time in terms of Kepler's Laws. He then uses the observation of the Transit of Venus as a practical application of the laws. From Robert Havlik, Librarian Emeritus, University of Notre Dame.</p>
February 18	<p>Added to Links: The Arts: http://christiesinternational.com/LotFinder/lot_details.aspx?intObjectID=5379488 John George Brown's 1883 painting <i>The Transit of Venus</i> sold at Christie's for \$122,500.00 in December 2010. The oil on canvas appeared in black and white on the cover of Harper's magazine, depicting children looking at the transit of Venus through a broken piece of glass that had been smoked.</p> <p>Added to Books:</p> <ul style="list-style-type: none"> • <i>Transit of Venus</i>, a collection of poems by Harry Crosby, from Black Sun Press. • <i>Transit of Venus</i> by Michael Harrison; described as "ejected by magazines as 'too horrible for inclusion.'"
February 12	<p>Added to Links: 2004: images/stories/congrats.jpg U.S. Secretary of Education Rod Paige congratulates the Penn-Harris-Madison Corporation and its families for global education outreach related to the 2004 Transit of Venus.</p>
February 11	<p>Added to Latest News: misc/265-solar-dynamics-observatory-to-witness-the-2012-transit-of-venus The NASA Solar Dynamics Observatory will be well positioned to witness the 2012 transit of Venus.</p> <p>Added to Links: Music: http://dl.dropbox.com/u/3291192/Young%20James%20Cook.aiff <i>Young James Cook</i>, ballad written by Willow Mackey in 1969 to honor the bicentennial of Cook's 1769 voyage; performed by Art Gorman and Jeff Tuholski; notated by Guy Ottewell; transposed and arranged by Art Gorman, 2004.</p>
February 8	<p>Added to Links: Video & New Media:</p> <ul style="list-style-type: none"> • http://forum-network.org/lecture/transit-venus-passing-sun Video: <i>Transit of Venus: Passing the Sun</i>, a 2004 lecture by Jay Pasachoff, gives historical background of transit of Venus and details how limb darkening and the telescope's point spread function contribute to the black drop effect. • http://uk.video.yahoo.com/watch/4464208/11964898 Video: <i>English Bites-Transit of Venus</i> gives historical background of the transit of Venus with emphasis on James Cook's expedition, then breaks down the reporter's word choice in a lesson in English vocabulary; from the Learn English website of the Australia Network.
	<p>Added to Links: Where to Be:</p> <ul style="list-style-type: none"> • http://www.royalsociety.org.nz/2010/12/03/2012-transit-of-venus-plans/#from-the-transit-of-venus-project-group Tolaga Bay – Uawa will host international celebrations for the Transit of Venus in June 2012 • http://www.sydneyobservatory.com.au/2011/transit-of-venus/ Sydney Observatory will have special programs available on 6 June 2012. <p>Added to Links: Teacher Resources:</p> <ul style="list-style-type: none"> • http://www.exploratorium.edu/venus/teacher_downloads/model-activity.pdf Make a scale model of the Venus Transit; from the Exploratorium. • http://www.suntrek.org/ "Take a journey into space and find out more about the Sun and its effect on the Earth..." From Sunltrek. <p>Added to What's New:</p> <ul style="list-style-type: none"> • http://patriciathornton.co.uk/about/: Exhibition: "Transit of Venus" Feb.1 to April 30, 2011; a collection of paintings, drawings, and mono-types by Pat Thornton. • misc/270-rekindling-venus Artist Lynette Wallworth uses contemporary screen technologies in the first stage of an eighteen month odyssey which will culminate in a global transmedia work, coinciding with the next Transit of Venus in 2012; exhibit launches 24 February 2011 at the Bigpond Adelaide Film Festival, Australia. <p>Added to Links: Science and Math:</p> <ul style="list-style-type: none"> • http://www.oca.eu/Mignard/Transits/Data/venus_contact.pdf <i>The Solar parallax with the transit of Venus</i> "shows how one can derive the timing of the four contacts of Venus with the sun disk as a function of the location of the observer and of the solar parallax with a relatively simple approximate formula whose accuracy is sufficient to process the observations of a network of observers. Two models are discussed." From F. Mignard. • http://www.math.nus.edu.sg/aslaksen/gem-projects/hm/0506-1-16-Parallax.pdf Parallax math explained by gamers. <p>Added to Book by Richard Proctor: http://chestofbooks.com/science/astronomy/Leisure-Hours/The-Coming-Transit-Of-Venus-And-British-Preparations-For-Observing-It-Part-6.html <i>The Coming Transit Of Venus, And British Preparations For Observing It</i>. Part 6, from the book "Light Science For Leisure Hours", by Richard A. Proctor.</p> <p>Added to Miscellaneous ToV Items:</p> <ul style="list-style-type: none"> • http://www.livedash.com/transcript/apocalypse_island/5916/HISTP/Tuesday_August_17_2010/278068/

Transcript of "Apocalypse Island" TV episode on Tuesday, Aug 17, 2010, with reference to and alleged implications from the transit of Venus. From History Channel.

- <http://vimeo.com/18658526>
Video: *Venus Transit*; 2011 avant garde film from Animal Bodies.
- <http://www.drwhoguide.com/chronicles15.htm>
Summary of 2009 *Dr. Who* Episode. "The year is 1770, and daring explorer Captain James Cook and his crew on the Endeavour are navigating the Pacific Ocean. Into their midst come strangers: the Doctor and Ian Chesterton, who are believed to have come from Venus. But the TARDIS is lost to them - along with both Susan and Barbara - and Ian makes an enemy of the ship's chief scientist, Joseph Banks. Why is Banks acting strangely? Could it be that the travellers are not the only visitors from the stars?" By Jacqueline Rayner.
- <http://www.murrayedwards.cam.ac.uk/exploring/gardens/gardens/chelseafloowershow2007/gardenforchelsea#>
Transit of Venus Garden at Chelsea Flower Show

Added to **2004 Transit of Venus Images**:

- http://legault.perso.sfr.fr/venus_transit.html
2004 Transit of Venus Images from Thierry Legault. See also **Venus 36 Hours Before the Transit**.
- http://home.comcast.net/~edwelda/site/?/page/Transit_of_Venus/
A First-in-a-Lifetime Transit; an account of the 2004 Transit of Venus, by Imelda B. Josen.

Added to Links: Exoplanet Transits:

- <http://www.mykepler.com/>
MyKepler is an educational program with a vision to involve 3,000 schools (1,000 in the USA) in the tracking and exploration of the Kepler telescope data to discover earth-like planets in the close Milky Way proximity.
- http://planetquest.jpl.nasa.gov/links/Search_Map/searches_index.cfm
PlanetQuest Exoplanet Exploration; from Jet Propulsion Laboratory.
- http://www.planetary.org/explore/topics/extrasolar_planets/extrasolar/transit_photometry.html
Extrasolar Planets: Transit Photometry Method for Finding Earths; from Planetary Society.
- <http://kepler.nasa.gov/files/mws/TransitTracks-7-2010.pdf>
Transit Tracks is an investigation in which students describe a transit and the conditions when a transit may be seen; describe how a planet's size and distance from its star affects the behavior of transits; and interpret graphs of brightness vs. time to deduce information about planet-star systems.

Added to **Links: Music**:

- <http://www.popmatters.com/pm/review/135190-tully-live-at-sydney-town-hall-1969-70/>
From the Australian band Tully "comes this pair of live recordings from 1969 and 1970 at the Sydney Town Hall, both of which are rare captures of the original incarnation of Tully on stage, including a performance of the continent's very first rock opera, "Love 200", which documents an expedition to map the Transit of Venus in 1769."
- <http://eclipse.gsfc.nasa.gov/SENL/SENL200407B.pdf>
Transit of Venus Song for One Guitar and Four Virtual Guitars; from Clark University's (Worcester, MA) Matt Malsky.
- <http://soundcloud.com/shadowattack/sets/the-transit-of-venus>
Transit of Venus Album and Title Track; from Deepblip Records.
- http://www.4shared.com/audio/AspcuNnZ/On_The_Transit_Of_Venus.html
Music: On the Transit of Venus, by Magda Said.

Added to **Links: Video & New Media**:

<http://www.youtube.com/watch?v=9e8kVXKOCTE>

Video: Discover how scientists used the last Venus transit and a geometric technique called parallax to verify the distance between sun and Earth. Find out what scientists hope to learn the next time Venus makes a shadow on the face of the sun.
Launchpad: Transits courtesy of NASA eClips.

Added to **Links: 1761 & 1769**:

<http://explorepahistory.com/displayimage.php?imgId=2871>

Map of transit of Venus by David Rittenhouse.

Added to **Links: 1874 & 1882**:

- <http://tasphotos.blogspot.com/2006/10/us-transit-of-venus-expedition-1874.html>
Tasmania in Photographs: The U.S. Transit of Venus Expedition 1874
- <http://query.nytimes.com/mem/archive-free/pdf?res=F00E14FA355D1A7493C1A91788D85F418784F9>
Original copy of *Transit of Venus Lecture* by Prof. C.A. Young, in *Hoboken*; from New York Times, 1875 March 3.
- <http://adsabs.harvard.edu/full/2004JAD....10....4M>
A Movie of the 1882 Transit of Venus Assembled From Plates Taken at Lick Observatory by David P. Todd. By Anthony Misch and William Sheehan.
- <http://geo-mexico.com/?p=2493>
Mexico's international scientific expedition to observe the 1874 transit of Venus.

Added to **Links: 2004**:

- <http://eclipse.gsfc.nasa.gov/SENL/SENL200407B.pdf>
Reports of 2004 Transit of Venus; from Solar Eclipse Newsletter (SEN). See Volume 9, Issue 7, pages 47-80. SEN captures excerpts from dialogue on blogs and listserves that discuss accounts of seeing the 2004 transit of Venus and its implications.
- <http://webpages.charter.net/darksky25/transit/transit.html>
2004 Transit of Venus from Mt. Horeb, WI.

Added to **Links: The Arts**:

- http://www.elizabeth-harris.com/Pages/G_Astronomical.html
Transit of Venus Textile Art by Elizabeth Harris. From the private collection of Susan Riley.
- http://mailchristies.com/LotFinder/lot_details.aspx?intObjectID=5379488
The Transit of Venus, by John George Brown (1831-1913). Price realized at December 2010 auction: \$122,500.

February 6

	<p>Color painting appeared as black and white print in Harper's magazine.</p> <ul style="list-style-type: none"> • http://www.flickr.com/photos/shy-shaman/3986157442/in/set-751217/ Transit of Venus Art on Flickr set by SHY. • http://www.platypusart.com/wetherell/sculpture_venus.html Transit of Venus sculpture by Tim Wetherell; now part of the University of Western Sydney permanent art collection. • http://www.poetryfoundation.org/archive/poem.html?id=2286 "Venus Transiens" by Amy Lowell. From The Complete Poetical Works of Amy Lowell. First Source: Poetry (1915).
February 1	<p>Added to Latest News: misc/266-seeking-goddess-for-instant-astronomical-gratification Along with chilly air, February 2011 brings a good opportunity to view the planet Venus in the morning sky. Don Darnell of Alberta, Canada, exhorts us to bundle up and enjoy this brilliant celestial target, whether with binoculars, a telescope, or just the naked eye. Venus appears to grow from a crescent phase to a chubbier gibbous phase, vastly outshining its background stars.</p> <p>Added to Video & New Media: http://www.youtube.com/watch?v=qS1O6C2dQ40 A crowd gathered before sunrise on June 8, 2004, to witness the rare Transit of Venus in Mishawaka, Indiana, USA. Though clouds threatened to obscure the spectacle, the sun emerged in time for the audience to observe through telescopes, rear projection screens, and solar viewers. An audible time signal in the background allowed individuals to time the instant when the black dot of Venus just touched the inside edge of the sun, as global expeditions had done in past centuries.</p> <p>Added to Links: Music:</p> <ul style="list-style-type: none"> • http://vimeo.com/16329342 Video: The SVCC Concert Band performs John Phillip Sousa's <i>Transit of Venus March</i>; conducted by Mark Bressler. • http://vimeo.com/11852682 Video: Dave Keegan & Simon Snaize perform the song "Venus In Transit" from their album "Portmanteau." • http://www.transitofvenusmusic.com/ Transit of Venus states it is a Philadelphia-based record label with national distribution by Redeye.
January 31	<p>Added to Video & New Media:</p> <ul style="list-style-type: none"> • http://www.youtube.com/watch?v=LaihjCw76vc <i>Using Parallax Angle of Venus to Measure Distance to Sun.</i> Video shows how two observers at different locations on earth see two distinct chords across the sun. The angular distance divided by two is the parallax angle of Venus, which can mathematically yield the distance from earth to the sun. • http://www.youtube.com/watch?v=gm_kZd_wGkE&feature=player_embedded <i>Black Drop Effect Simulated With Pinched Fingers.</i> Simulate the black drop effect that is sometimes seen during a transit of Venus by nearly pinching your fingers together. Note the ligament that seems to form just between them just before they seem to touch.
January 23	<p>Added to What the Chuck:</p> <ul style="list-style-type: none"> • misc/what-the-chuck/255-glpa-papers-posters-workshops-1992-2010 Papers, posters, and workshops from <i>Proceedings of the Great Lakes Planetarium Association (GLPA)</i>; 1992-2010. • misc/what-the-chuck/256-transit-writings Original articles pertaining specifically to the transit of Venus. • misc/what-the-chuck/257-other-websites Other websites, including <ul style="list-style-type: none"> ◦ Let There Be Night ◦ Nightwise ◦ Paper Plate Education ◦ YMCA AstroCamp ◦ Penn-Harris-Madison Planetarium
January 22	<p>Added to Latest News: MichianaSTEM to Feature Imaging of Transits. Digital imaging of celestial targets will be the topic of summer ASTRO workshops for teachers in 2011 at University of Notre Dame. A key objective will be to target transits (e.g., by moons of Jupiter) in anticipation of the 2012 transit of Venus.</p>
January 21	<p>Added to Links: Exoplanet Transits: http://www.wnit.org/outdoorelements/1000/1003/1003.html Planetarium director Ruth Craft uses a photometer and orrery to simulate the Kepler spacecraft monitoring a star with transiting planets. In the demonstration, computer software generates a light curve that is projected on the domed ceiling, where visitors can discern the presence and characteristics of companion planets. See <i>How the Kepler Telescope Works</i> (Segment #3 of Episode #1003); from WNIT Outdoor Elements.</p>
January 19	<p>Added module to Home page: <i>Transits: Leading the Hunt</i>, which links to Links: Exoplanet Transits.</p>
January 9	<p>Added to Video & New Media: http://en.wikipedia.org/wiki/File:Transit_of_Venus_animation.ogg#globalusage NASA animation zooms out from the surface of Venus to beyond earth's orbit, showing a transit of Venus.</p>
	<p>Added to Travel and Tours:</p> <ul style="list-style-type: none"> • http://www.eclipssetours.com/tov2012.html Ring of Fire Expeditions travels through central Asia for 14 days, witnessing the 2012 transit of Venus in Turkmenistan. • http://www.travelquesttours.com/TahitiTransitofVenus2012Info.htm TravelQuest sets up in Tahiti for 2012 Transit of Venus. • http://www.astroadventures.net/ Astronomical Adventures combines the transit of Venus and an annular eclipse visiting the Coral Sea and some

January 7	<p>Astronomical adventures combines the transit of Venus and an annular eclipse, visiting the Solar Sea and some western U.S. states.</p> <ul style="list-style-type: none"> • http://www.astronomytours.co.uk/2012/exuv-transit-of-venus-tour.aspx Explorers Astronomy Tours will watch the 2012 transit of Venus as part of its Observatories Tour. • http://www.solar-eclipse-tours.com/index.php?option=com_content&view=article&id=70&Itemid=95 South America Classic Tours is off to Australia for 2012 transit of Venus. • http://astro-expeditions.com/Annular%202012.aspx Astro Expeditions takes guests to Hawaii for the 2012 transit of Venus. • http://www.spearstravel.com/astronomy/upcoming.htm Spears Travel heads to Hawaii for 2012 transit of Venus. • http://www.solareclipsetrips.com/contact.htm Solar Eclipse Trips suggests they will have a trip to Hawaii in 2012. • http://www.tropicalsails.com/2012/page4.html Tropical Sails Corp is considering Hawaii, but seeks input.
January 6	<p>Added to History/2004:</p> <ul style="list-style-type: none"> • history/2004/222-2004-celebration-in-mishawaka-in A crowd celebrated the 2004 Transit of Venus at sunrise in Mishawaka, IN • history/2004/223-2004-observing-report Brian Davis records his experience of the 2004 Transit of Venus as seen from Mishawaka, IN
January 4	<p>Added to Links: Teacher Resources:</p> <ul style="list-style-type: none"> • http://solarstormwatch.com/ Don't just look at the sun (with filters). Now you can track and plot explosions on the sun to give astronauts an early warning if dangerous solar radiation is headed their way. Conduct valuable research by joining the scientists of Solar Stormwatch. • http://www.planethunters.org/ Actually find new planets orbiting distant stars using the data from the Kepler mission. Participants steer astronomers to candidate stars by judging the existence of patterns in a light curve. From Planet Hunters.

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