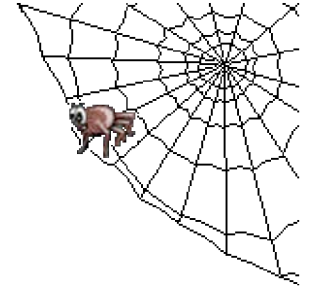


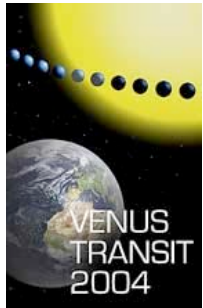
VT-2004 - The Web



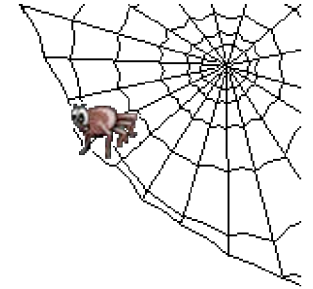
# The Venus Transit and the Web

**Henri Boffin & Michael Naumann**

*European Southern Observatory*



VT-2004 - The Web



# Venus' transits

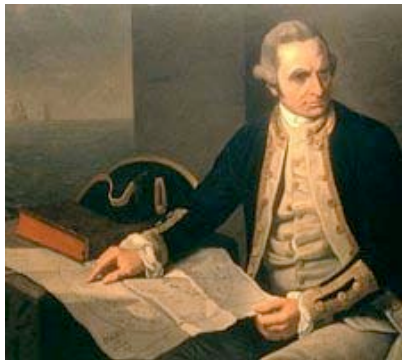


Horrocks  
Crabtree



**17<sup>th</sup> Century:** Pioneers!

Handful of people have seen it...



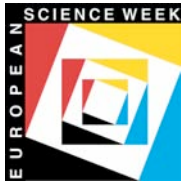
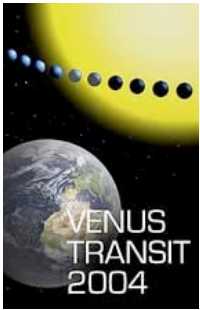
Captain Cook



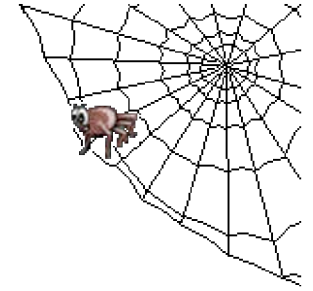
**18<sup>th</sup> Century:** Adventurers!

Astronomers made big and sometimes dangerous travels at time of wars

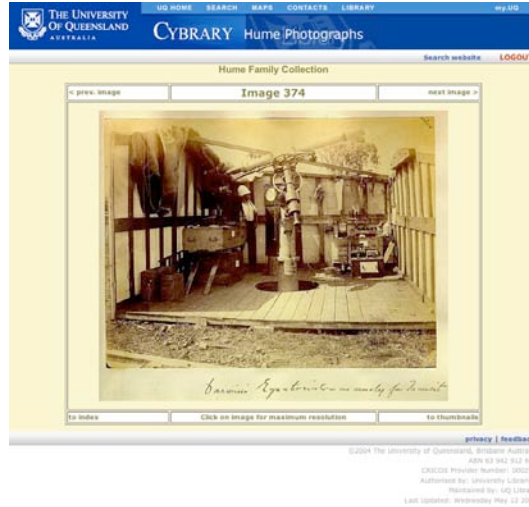
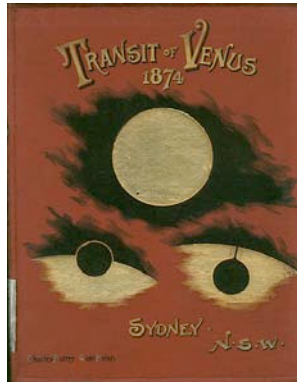
First International Cooperation



VT-2004 - The Web



# Venus' transits

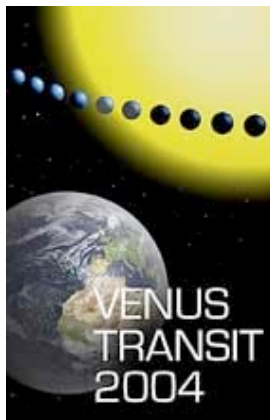


19<sup>th</sup> Century: Modern times.

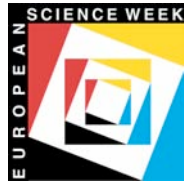
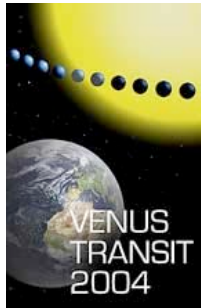
Becomes more popular: books are written

Use of photography

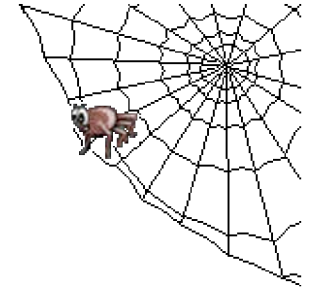
Telegraph



21<sup>st</sup> Century: Radio, TV and the Web make it a universal topic!



VT-2004 - *The Web*



# Web and Transit

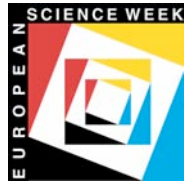
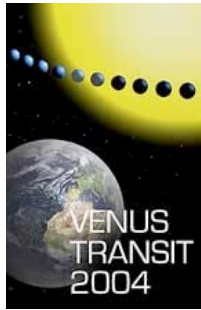
The Web has allowed millions of people to **participate** - actively or passively - in the Venus Transit.

People could **learn** about the transits, about the history, the science, etc. They could read the stories, share the enthusiasm.

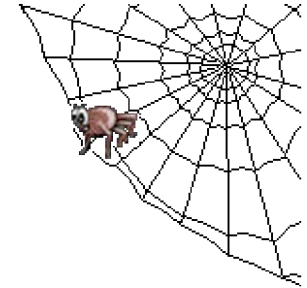
They could **share** with others people, photos, drawings, videos, thoughts, excitement, etc.

They could **see** - in real time - the event, even if it was clouded or not visible in their place, or they had to stay in office, or at home...

They could **calculate** - by a simple click - in real-time the value of the AU from their measurement.



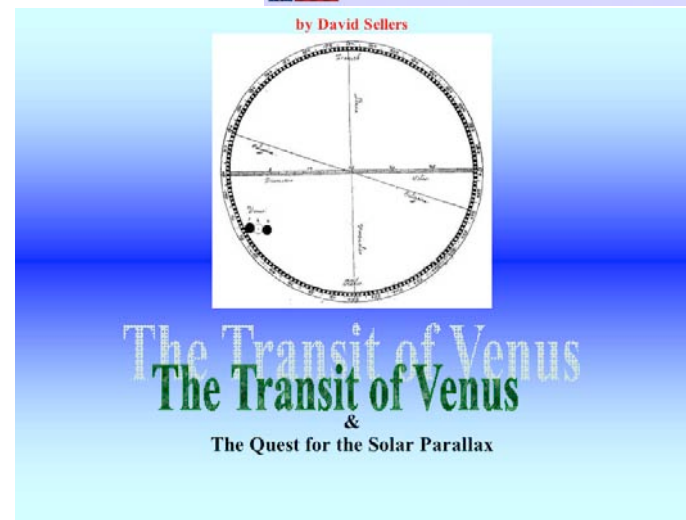
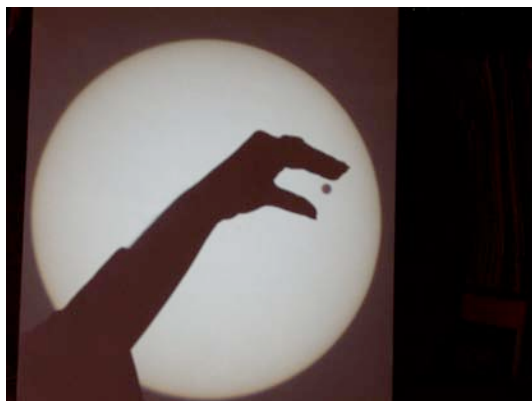
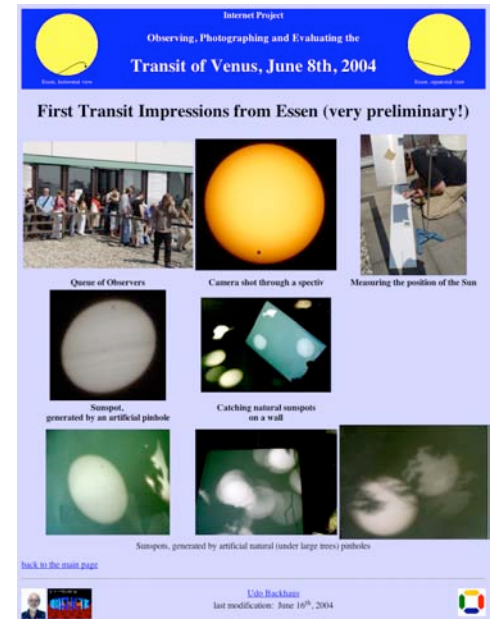
VT-2004 - The Web

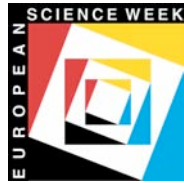
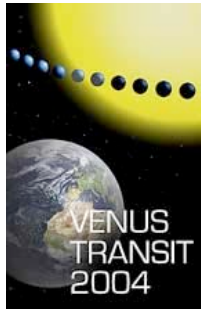


# Searching the web

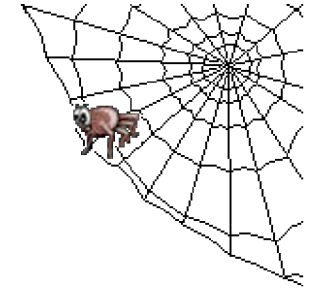


Typing “Venus Transit” in the Google search engine returns 316 000 entries and 2470 photos. The Web is now full of items on Venus Transits. A goldmine for educators, students, enthusiasts, or just the curious...





VT-2004 - The Web



# Searching the Web



**VENUS2004.ORG**

Venus2004.org > accueil

**Le 8 juin 2004, un phénomène rare s'est produit : la planète Vénus est passée devant le Soleil. On appelle cela le transit de Vénus.**

Venus2004.org a permis de fédérer des centaines de personnes autour du monde pour calculer la valeur expérimentale de l'Unité Astronomique. Découvrez au travers de ce site cette formidable aventure et de nombreux documents consacrés à la planète Vénus.

**NEW - NOUVEAU**

**24/06 NOUVEAU** Découvrez les résultats de cette aventure inoubliable avec les valeurs expérimentales de l'Unité Astronomique ! Ainsi que de nombreuses surprises pour les passionnés : films, images ... Cliquez-ici !

**THE EPOCH TIMES 大紀元**

Home > Science > Fascination with Transit of Venus Shared Around the World

By Leo Bryant  
VNA News  
Jun 17, 2004

**PARIS** - Millions of people around the world watched the planet Venus move slowly across the face of the sun Tuesday, an event which occurs roughly only twice every century. The transit could not be seen in parts of North and South America, but it was clearly visible in the eastern United States and in much of Asia, Africa and Europe.

The Paris Observatory held a one-day event Tuesday, and local residents and tourists took advantage of it. By mid-morning on the sunny, blazing hot day, a long line snaked down the observatory's sidewalk, as people flocked to view Venus crossing the sun. Several telescopes and astronomers were on hand for the occasion.

School groups packed the observatory's green lawn, listening to astronomers explain celestial events, including the Venus transit, which began at about 7 a.m. local time. As elsewhere on Earth, the event was a major news topic in France, and by midday the observatory had received so many visitors that it was already out of the special protective solar glasses it was handing out free of charge.

Sixth-graders at Stanislas primary school in Paris were at odds about what they'd just seen through the telescope. They agreed there was a big yellow disk - the sun, with the orange, tiny dark spot of Venus moving slowly across it. But some kids said the spot was blue. Others believed it was black.

Scientists used the Venus transit to calculate the distance between the earth and the sun. Today, says Fabienne Couste, an astronomer at the Paris Observatory, the sighting holds little scientific interest.

But Mrs. Couste says exceptional events like the Venus transit or a solar eclipse offer scientists a wonderful opportunity to explain to the public the mysteries of the solar system. She says children generally ask questions about major phenomena like the Big Bang, a theory about the origin of the universe. Adults generally stick to more practical topics, like when the observatory was built.

The Paris observatory was hardly the only place deluged with Venus watchers. Millions of people gathered in front of telescopes in Europe, Australia, Africa, and in parts of North America, where the phenomenon could be seen early in the morning. Others watched satellite broadcasts on their computers.

**THE RAREST ECLIPSE TRANSIT of VENUS**

On June 8, 2004, astronomers in many parts of the world watched as Venus moved across the disk of the Sun, one of the rarest planetary alignments. Only six Venus transits have occurred since the invention of the telescope in the 1600s. [Click here](#) to hear Tony Misch of Lick Observatory discuss photographing the 1882 transit.

**WEBCAST ARCHIVE**

**PRE-TRANSIT PROGRAM**  
[Click Here for RealMedia stream](#)

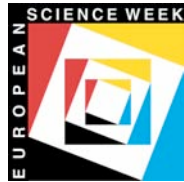
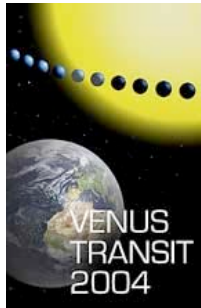
**1st & 2nd CONTACT PROGRAM**  
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**3rd & 4th CONTACT PROGRAM**  
[Click Here for RealMedia stream](#)

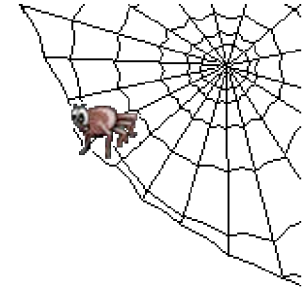
[View high-resolution stills of the transit. See cool TRACE images of the transit. Incredible SOHO sun images from the transit.](#)

WEBCAST HELP

What Is a Transit of Venus? \* How Do You View It? \* What Will You See? \* Why Is It Important? \* All About Venus ...



VT-2004 - The Web



# Other things to be found...

<a href="#">Start</a>	<a href="#">Welcome</a>	<a href="#">Star Guide</a>	<a href="#">Horoscopes</a>	<a href="#">Nude Horoscopes</a>	<a href="#">Free Horoscope</a>	<a href="#">Orders</a>	<a href="#">Contact Us</a>	<a href="#">Guest Book</a>
<b>ASTROLOGY</b> <i>on the Web!</i>		<b>Personalized Forecast</b> Get Yours Free From Rochelle Gordon World Renowned Astrologer.	<b>Free Personal Horoscope</b> Get your free personal Horoscope from Pasqualina. Request Here.	<b>Free Personal Horoscope</b> with Your Lucky Numbers by Pasqualina	<b>Professional Astrology</b> Purchase Your Real Birth Chart and a Personalized Horoscope Report.	<b>Your Free Astrology</b> Sara Freder answers your questions and reveals your future. All Free		
<input type="button" value="Click to Find It Quick!"/>								
<b>Venus Retrograde:</b> <a href="#">Venus Retrograde</a>   <a href="#">Venus</a>   <a href="#">Quetzalcoatl</a>   <a href="#">The Matrix Examined</a>   <a href="#">A Close Call</a>   <a href="#">Eclipses</a>								

[AlternativeApproaches.com](http://AlternativeApproaches.com)

## The Return of the Energy of Christ and of Quetzalcoatl



Richard Giles, writer, astrologer and Feng Shui consultant, was born in Adelaide, South Australia, spending his childhood in sunny bliss in the climate of the City of Culture. The Vietnam war and conscription turned him towards another way of life. Spiritual Journeys in Thailand, India and Indonesia with Buddhism and meditation led him to a new analysis of the world. He took up the study of astrology and more recently Feng Shui.

### The June 2004 transit of Venus a Unique Harmony Event

The Venus Transit of June 2004 during the Venus Retrograde phase is a rare cosmic event that this year is laden with spiritual significance. Richard Giles examines this remarkable phenomenon.

This year we'll experience a once-in-a-lifetime rare astrological and astronomical event. Approximately every 121 years, the planet Venus moves between the Sun and our line of vision so that Venus passes directly across the face of the Sun. When the Moon passes across the face of the Sun it's called an eclipse. When a planet passes across the Sun's face it's more precisely known as an occultation.

On June 8th, 2004 we will be able to see the small shadow disc of Venus transit across the Sun maintaining its passage for about 6 hours. The last occultation was December 1882 and each time the occultation occurs it comes in twos, the second one being 8 years on. The previous first one was December 1874. The other transit this century will be June 6th, 2012. Following that, the next time is 2117.

#### Shifts in Human Consciousness



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Last Update: Monday, June 21, 2004. 0:28am (AEST) [Print](#) [Email](#)

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## Venus transit may cause serious flooding along China's Yellow River: report

The recent spectacular transit of Venus across the face of the Sun may lead to disastrous flooding along China's Yellow River, a leading scientist has warned the local media.

While millions were marveling at the celestial show earlier this month, Geng Guoqing, an expert on natural calamities, was more worried about the consequences for China's second-longest river, the Xinhua news agency reported.

He compared historical records reaching 2,187 years back and found a clear correlation between Venus transits and serious floods along the river's middle and lower reaches, according to the agency.

The reason could be that Venus blocks part of the Sun's radiation that should have been transmitted to Earth, said Mr Guo, a researcher at the Special Committee on Natural Calamities Forecasting under the China Geophysics Society.

This causes climatic disturbances across the globe, he argued.

As the flood season approaches, officials along banks of the 5,464 kilometre Yellow River are not taking any chances.

Four silt-stirring vessels have started a 24 day operation to remove tonnes of silt from the river, in one of many efforts to prevent flood waters rising, the news agency reported.

Torrential rains and flooding were responsible for nearly 2,000 deaths in China in the first nine months of last year.

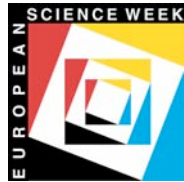
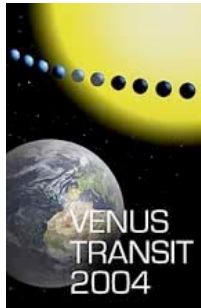
--AFP

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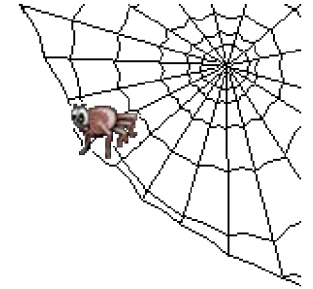
[http://www.experiencefestival.com/venus\\_transit](http://www.experiencefestival.com/venus_transit)

## The Wisdom Archives for the Venus Transit

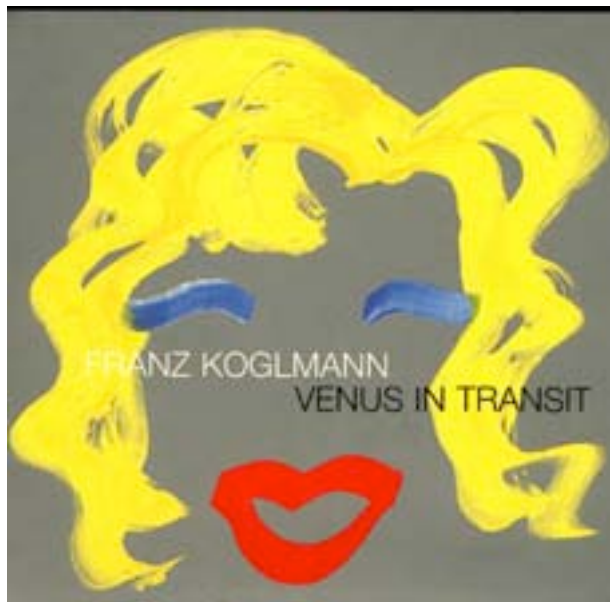
## Venus Transit of June 8, 2004 – A Breakthrough of Intuitive Awareness



VT-2004 - The Web



# Venus' stuff...



Music?



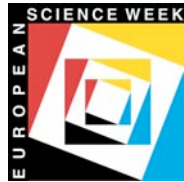
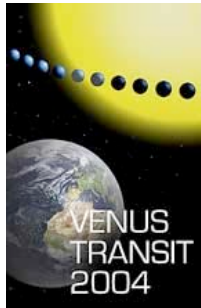
Horrock's church  
Venus Transit  
calendar

Transit of Venus Sunrise Ale

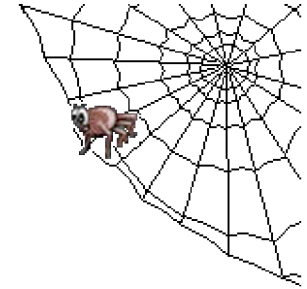


Venus transit beer!





VT-2004 - The Web



# Web coverage

CHINA Daily 中国日报网站

Home News

November 3, 2004

NEWS

Home > News Center > Life

## Century's chance to see Venus transit Sun

(Agencies)  
Updated: 2004-06-08 07:28

Europe, Africa and the Middle East are the best vantage points to see the first transit of Venus across the sun in more than a century on Tuesday, scientists said.

Mostly clear skies are forecast in many parts of the three regions, but people were urged to be careful if they watch the rare event when it begins at 1:19 a.m. EDT because it could cause blindness. Views will be restricted from Asia and the Americas.



Unlike a solar eclipse by the moon that is over in two or three minutes, Venus's transit -- which last occurred in 1882 -- will go on for six hours.

The planet will appear as an intense black dot on the solar disc.

Most of the sun will be visible as Venus crosses to the right from the bottom left side of the solar disc. Venus will be 26.7 million miles from earth.

"Venus will be about 1/30 the size of the diameter of the sun, but it will be much darker and more intense than sunspots," said Dr Robert Walsh, of the University of Central Lancashire's Center for Astrophysics in northern England.

Scientists recommend some form of indirect projection as the safest way to observe the phenomenon.

"Never ever look directly at the sun with the naked eye or any sort of optical

TECHNOLOGY & SCIENCE

Space News

### Sight of the century: Venus crosses sun

Transit draws gasps from Australia to America



By Matt Rosenthal  
The Associated Press  
Updated: 6:08 p.m. ET June 8, 2004

MOLIGNA, Italy - In this old center of stargazing, as in much of the world, thousands watched in awe Tuesday the black dot of Venus inching across the blazing face of the sun.

"Ecco!" gasped one maternity woman as the big screen at Piazza VIII Annunzi...

VENUS ON SCENE

- Space.com: Photo highlights from the Venus transit
- Search MSNBC for 'Venus Transit'
- NASA's Venus

Live Meeting



## VENUS TRANSIT 2004

8th June 2004

On June 8th 2004, a unique astronomical event occurred. Venus passed between the Sun and Earth in an event visible from Europe, Asia and beyond.

Channel 27 was live at the Solar Center with Leo Andrews to bring you live coverage of the event. The show featured comment and discussion, numerous features and great music.

- LEARN MORE
- University of Ctr Lancs
  - VT-2004 from ESO
  - venus-transit.de
  - transitofvenus.org
  - NASA

REPLAY >>

The following clips remain available to listen again.

- VENUS TRANSIT 2004  
Live from the Solar Center with Leo Andrews (Aired 8th June 04, 0700GMT) [32k](#)
- VENUS TRANSIT 2004 HIGHLIGHTS  
(Aired 8th June 04, 2100GMT) [32k](#)

THE SCOTSMAN  
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THE SCOTSMAN  
Fri 23 Apr 2004

## Sam shadow for Venus viewers

BOB KIBBLE

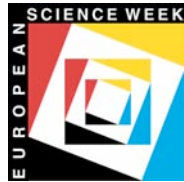
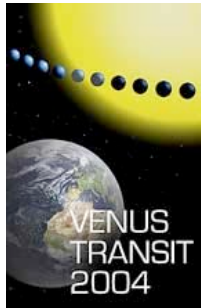
Set your alarm clock for an early rise on the morning of 8 June. It will be time to chase Venus across the Sun. Here is your chance to join millions across the globe who will be focusing attention on a rare happening, perhaps as significant in astronomical terms as the total eclipse of the Sun.

VENUS TRANSIT: VULVA PALS  
Some facts and figures you never knew about the Transit of Venus.

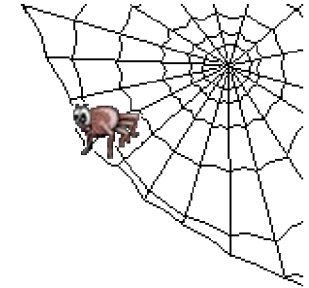
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- 'Lost' Soviet space shuttle lands in chitla lands in [24k 40k](#)

\* MP4/AAC: Channel 27 is offering these streams in MP4/AAC. Advanced Audio Coding is a new, high-quality audio codec and we are offering experimental streams for you to sample. You can play these streams with the RealPlayer but may have to download a plugin. Alternatively Winamp can play these files.



VT-2004 - The Web



## EC Application Abstract

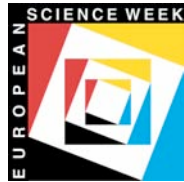
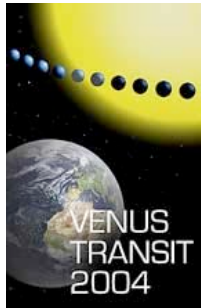
### Science and Society

### European Science Week 2004

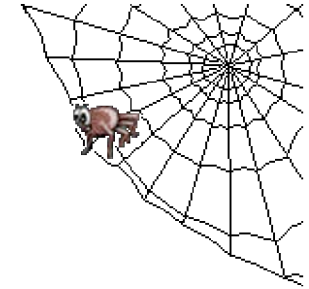
On June 8, 2004, planet Venus will pass in front of the Sun. This event, a "transit", is extremely rare - the last one occurred 121 years ago. Easily observable in Europe, it will most certainly generate unprecedented attention from the media and the public. This project aims at **transforming curiosity into knowledge** and interest in European science through large-scale pedagogic action, specially geared towards the importance of uncertainty in scientific observations, the leading European role in the discovery of **extra-solar planets** and **the measure of the Universe**. This project will set up a **large international network** of individuals (teachers, students, amateur astronomers, etc.), and institutions (planetariums, science centres, etc.). It will encourage them to participate in real-time measurements of one of the most fundamental astronomical parameters, the distance from the Earth to the Sun. It will explain the relation of this event to a current front-line research area, the search for extra-solar planets by the transit method; the only one, which, in the near future, will enable the discovery of Earth-size planets and thus possibly, alien habitable worlds. The project will **promote international collaboration** throughout Europe, and also in Africa and Asia, by observing the same rare celestial event, debating it via web and adding local observational contributions to a large, common database.

The project is centred on the **delivery of the detailed explanation in all European languages of all aspects (scientific, technical, historical etc.)** of the event itself and its implication in the search for life, and on the **involvement of media, teachers and amateur astronomers** to ensure the highest return. **The Internet will be the main vector of interaction.** To emphasize the sociological importance of this event, a **video contest** will be launched. The project will be thoroughly evaluated in terms of impact and management in a Final Event during the Science Week.

"VENUS TRANSIT IN JUNE 2004: EXOPLANETS AND THE SIZE OF THE WORLD" - May 2003



VT-2004 - The Web



# VT-2004 Web site

**EUROPEAN SOUTHERN OBSERVATORY**  
ESO. Astronomy made in Europe

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Background  
VT-2004 Network  
How to Participate  
How to Observe  
Safety !  
Use of the Observations  
Day of the Transit  
Central Display  
Frequently Asked Questions  
Links  
Mercury Transit

**The Venus Transit 2004**  
... Exoplanets and the Size of the World!

**The Venus Transit and the VT-2004 project**

On June 8, 2004, **Venus** - the Earth's sister planet - passes in front of the Sun as seen from the Earth. This very rare event (no living person has ever seen one!) lasts about 6 hours and will be visible from most of Europe, Africa and Asia.

It will most certainly generate unprecedented attention from the media and the public, not just in these areas, but all over the world.

This website describes the **VT-2004** project that is related to this celestial event and which aims at transforming curiosity into knowledge and interest in science through a broad set of actions. It has been launched by the **European Southern Observatory (ESO)** and the **European Association for Astronomy Education (EAAE)**, together with the **Institut de Mécanique Céleste et de Calcul des Éphémérides (IMCCE)** and the **Observatoire de Paris** in France, as well as the **Astronomical Institute of the Academy of Sciences of the Czech Republic**.

The **VT-2004** programme is supported by the **European Commission** in the frame of the **European Science Week 2004**.

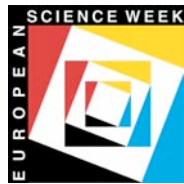
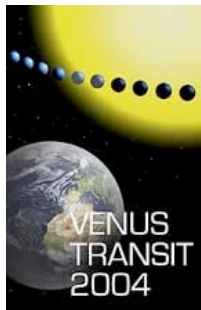
Read the **VT-2004 Latest News** and follow the development of this large-scale programme!

**Participation in VT-2004**

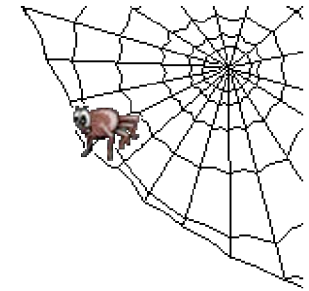
The **VT-2004** project invites active participation of **all interested individuals** (including teachers, students, amateur astronomers, etc.) and **educational institutions** (planetariums, public observatories, science centres, etc.). It will provide comprehensive information about the wide scientific, technical, social and historical aspects of this rare event.

It encourages and will coordinate the making of **real-time measurements** of one of the most fundamental astronomical parameters, the distance from the Earth to the Sun. It explains the relation of this event to a current front-line research area, **the search for extra-solar planets by the transit method**, the only one which, in the near future, will be able to discover Earth-size planets and thus possibly, alien habitable worlds.

The VT-2004 website was first set up in June 2002 and was expanded as more features were added. This development resulted in loss of navigability. A major upgrade of the top-level pages was therefore performed in early April 2004.



VT-2004 - The Web

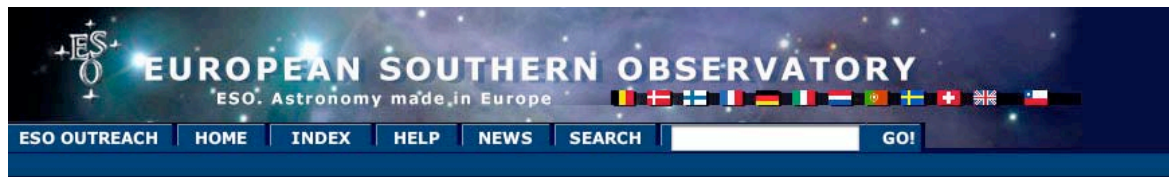


# VT-2004 Web Site

## Loaded with information!

~ 2 GB of data  
> 36,000 files!

- Background Information (two levels)
- Educational material
- Registration of Observers
- Photo Archive
- Art Gallery - Poetry
- Video and animations
- Info for amateur astronomers
- Links to the VT-Network
- Kids' corner
- Quiz



- ESO
- OUTREACH
- EDUCATIONAL OFFICE
- PROGRAMMES
- CATCH A STAR
- FAST 2002
- QUESTIONNAIRE 2001
- VENUS TRANSIT 2004
  - Introduction
  - Latest News
  - Themes of the Week
  - Photos of the Day
  - Background
  - Safety !
  - Students and Teachers
  - Media
  - Amateurs
  - Kids' Area
  - VT-2004 Network
  - In Your Region
  - How to Participate
  - Video Contest



The Venus Transit 2004  
Welcome to the VT-2004 website!  
The Transit is Over!

VT-2004 Theme of the Week (October 4 -10, 2004): VT-2004 News

### The Phases of Venus



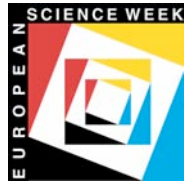
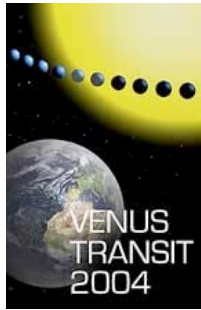
The Phases of Venus in April-May 2004  
(Photo by Hans-Göran Lindberg, Skultuna, Sweden)

Moving around the Sun...

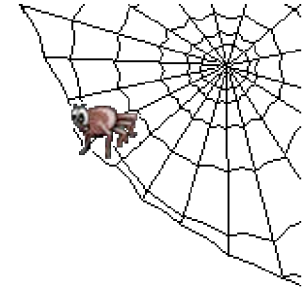
**October 6, 2004:** After viewing all the many entries received for the [VT-2004 Video Contest](#), an international Jury has selected 10 laureate videos. The list is now available on this [page](#). The laureates will be invited to the VT-2004 Final Event where the Jury will announce the winners of the top prizes. Congratulations to all of them!

**September 28, 2004:** Please note that because of the work on the Final Report about the VT-2004 programme, photos related to Venus and the transit event cannot be accepted for inclusion into the [VT-2004 Photo Archive](#) after **October 15, 2004**.

**September 20, 2004:** The deadline for receiving entries to our [Video Contest](#) has passed and we are



VT-2004 - The Web



# VT-2004 Web site

EUROPEAN SOUTHERN OBSERVATORY  
ESO, Astronomy made in Europe

ESO OUTREACH HOME INDEX HELP NEWS SEARCH GO!

ESO OUTREACH  
EDUCATIONAL OFFICE  
PROGRAMMES  
CATCH A STAR  
FAST 2002  
QUESTIONNAIRE 2001  
VENUS TRANSIT 2004  
Introduction  
Latest News  
Background  
Safety I  
Students and Teachers  
Media  
Amateurs  
Kids' Area  
VT-2004 Network  
In Your Region  
How to Participate  
Video Contest  
Gallery  
Photos  
Animations  
Day of the Transit  
Central Display  
Forum  
Frequently Asked Questions

Enjoy the Venus Transit via the Central Display: LIVE Images & Comments

The Venus Transit 2004  
Welcome to the VT-2004 website!  
The Transit is Over!

**VT-2004 Photo of the Day**  
Venus Transit over Lake Erie  
[1024 x 768 (06 - 2014)]  
Annah Brown  
Sony Cyber-shot  
June 8, 2004  
Lake Erie,  
Michigan, USA

**VT-2004 News**  
June 18, 2004. Three new [videos](#) have been added, showing the Transit.  
June 15, 2004. Today's "Photos of the Day" contain exceptional views of the Venus Transit - with two phenomena not present during earlier Venus transits! More information about the [photo](#) by Tomas Maruzsko (Slovakia) with ISS in front of the Sun at the time of the Venus transit is available at [this special page](#) and the sheet with [predictions](#) issued before the event. Read also the commentaries on this issue at the [VT-2004 Forum](#).  
June 14, 2004. 120 very nice drawings have been added to the [Gallery](#).  
June 12, 2004. About 100 photos from the transit received by the VT-2004 programme on June 8 and 9 are now available at the [VT-2004 Photo Archive](#) on pages 20-30. More to follow. The VT-2004 team is still receiving many messages - we do our best to follow them up, but it may take a little time - kindly be patient!  
June 11, 2004. Some organisers of Venus Transit

Images from the transit may now be found in different places, e.g.:

- In the [VT-2004 Photo Archive](#)
- Websites of [VT-2004 Network Members](#)
- Websites of [VT-2004 National Nodes](#)
- Archived pages of the [VT-2004 Central Display](#)
- Websites with [webcasts](#) during the transit

EUROPEAN SOUTHERN OBSERVATORY  
ESO, Astronomy made in Europe

ESO OUTREACH HOME INDEX HELP NEWS SEARCH GO!

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Photos  
Animations  
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Central Display  
Forum  
Frequently Asked Questions

Enjoy the Venus Transit via the Central Display: LIVE Images & Comments

The Venus Transit 2004  
Welcome to the VT-2004 website!  
The Transit is Over!

**VT-2004 Theme of the Week (October 4 - 10, 2004):**  
The Phases of Venus

The Phases of Venus in April-May 2004 (Photo by Hans-Coban Lindberg, Skullebå, Sweden!)

Moving around the Sun on an orbit inside that of the Earth, Venus displays phases like the Moon. In [VT-2004 InfoSheet 03](#), the Spanish Italian scientist Geminio Galeni (1764 - 1842) first observed Venus's phases in 1810 with his recently invented telescope. This contributed to convince him that Venus moves around the Sun and is illuminated by this body and that the Sun, not the Earth, is at the centre of the world.  
Early in 2004, Venus was about "half", but as it moved along its orbit between the Sun and the Earth, we began to see it more and more "from behind". Consequently, the illuminated part of the disc shrinks.

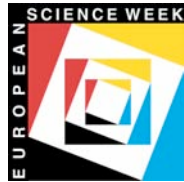
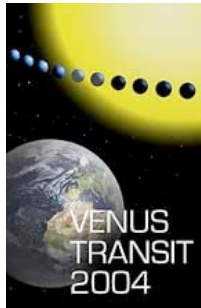
**VT-2004 News**  
October 8, 2004. After viewing all the many entries received for the [VT-2004 Video Contest](#), an International Jury has selected 10 laureate videos. The list is now available on this [page](#). The laureates will be invited to the VT-2004 Final Event where the Jury will announce the winners of the top prizes. Congratulations to all of them!  
September 28, 2004. Please note that because of the work on the Final Report about the VT-2004 programme, photos received to Venus and the transit event cannot be accepted for inclusion into the [VT-2004 Photo Archive](#) after October 15, 2004.  
September 26, 2004. The deadline for receiving entries to our [Video Contest](#) has passed and we are happy to report that many videos entered the contest. An International Jury has been set up and will deliberate on the entries in early October. We hope to be able to announce the winners by October 15.  
Earlier news topics are available in the [Index Archive](#).

Images from the transit may now be found in different places, e.g.:

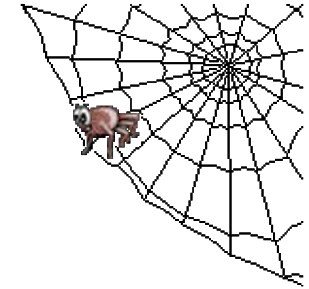
- In the [VT-2004 Photo Archive](#)
- Via the "Photos of the Day" list

Photo archive (> 600 photos) with Photo of the day until August 8

Theme of the Week from August 9



VT-2004 - The Web



# Drawings

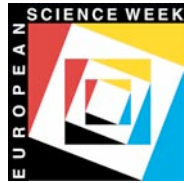
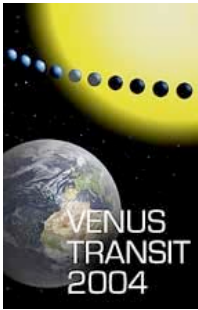


410 drawings in the Gallery

50 won a T-shirt

17 classes received set of posters

different aspect!



VT-2004 - The Web



# VT-2004 Nodes

**Venuksen ylitykku 8.6.2004**

8.6.2004 on maailmanlaajuisesti tunnettu päivä, jolloin Venus kiertää Aurinkoa ja näkyy kirkkaana tähtenä taivaalla. Tänä päivänä Venus on kirkkaampi kuin Jupiter ja kirkkaampi kuin Mars. Tänä päivänä Venus on kirkkaampi kuin Jupiter ja kirkkaampi kuin Mars. Tänä päivänä Venus on kirkkaampi kuin Jupiter ja kirkkaampi kuin Mars.

**Observatoire Astronomique des Males**

2ème nœud national français Hemisphère Sud

Partenaires de l'événement:

- Observatoire de la Réunion (OAR)
- Observatoire de Tahiti (OAT)
- Observatoire de l'Atoll de Tautou (OAT)

**Venus Transit 2004**

Observatoire de la Réunion (OAR)

Observatoire de Tahiti (OAT)

Observatoire de l'Atoll de Tautou (OAT)

**KIPPENHEUER INSTITUT FÜR SONNENPHYSIK**

Wissenschaften auf dem Weichsel des KIP sind VENUS-TRANSIT 2004!

On June 8, 2004 we will experience the most extraordinary and important celestial phenomenon in modern times. For the first time in 43 years the planet Venus will be visible in front of the Sun. The Venus transit is a rare event that will be visible from parts of the Earth. The transit will be visible from parts of the Earth. The transit will be visible from parts of the Earth.

**VENUS TRANSIT**

JUNE 8, 2004

On June 8, 2004 we will experience the most extraordinary and important celestial phenomenon in modern times. For the first time in 43 years the planet Venus will be visible in front of the Sun. The Venus transit is a rare event that will be visible from parts of the Earth. The transit will be visible from parts of the Earth.

**Przebieg Wenus 2004**

KONCZYMY...

Przebieg Wenus 2004

Przebieg Wenus 2004

Przebieg Wenus 2004

**Prehod Venera 2004**

Prehod Venera 2004

Prehod Venera 2004

Prehod Venera 2004

**ASTRO**

ASTRO

ASTRO

ASTRO

**PROJEKT 'VENUS TRANSIT 2004'**

Prehod Venuše v našej škole 8. júna 2004

Prehod Venuše v našej škole 8. júna 2004

Prehod Venuše v našej škole 8. júna 2004

**FRANZITUL LUU VENUS**

En himmens ögon så tydligt förklarar denna fenomen!

VENUS TRANSIT 2004

VENUS TRANSIT 2004

VENUS TRANSIT 2004

**Nationaler Knoten für Österreich**

Nationaler Knoten für Österreich

Nationaler Knoten für Österreich

Nationaler Knoten für Österreich

**il passaggi di Venere**

il passaggi di Venere

il passaggi di Venere

il passaggi di Venere

**ЕВРОПЕЙСКА ОБРАЗОВАТЕЛНА ПРОГРАМА**

ПАСАЖ НА ВЕНЕРА 8 ЈУНИ 2004

ЕВРОПЕЙСКА ОБРАЗОВАТЕЛНА ПРОГРАМА

ПАСАЖ НА ВЕНЕРА 8 ЈУНИ 2004

**VENUS TRANSIT 2004**

VENUS TRANSIT 2004

VENUS TRANSIT 2004

VENUS TRANSIT 2004

**transito venus '04**

transito venus '04

transito venus '04

transito venus '04

**Le passage de Venus du 8 juin 2004**

Le passage de Venus du 8 juin 2004

Le passage de Venus du 8 juin 2004

Le passage de Venus du 8 juin 2004

**Prehod Venuše v našej škole**

Prehod Venuše v našej škole

Prehod Venuše v našej škole

Prehod Venuše v našej škole

**Venus Transit 2004**

Venus Transit 2004

Venus Transit 2004

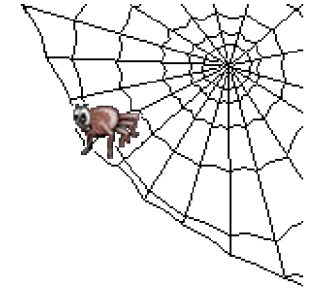
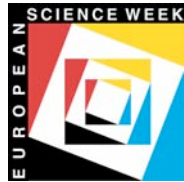
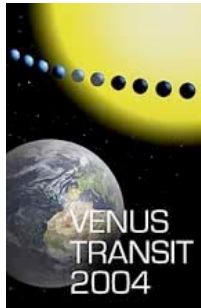
Venus Transit 2004

**VENUS TRANSIT 2004 - Veneta pasaja**

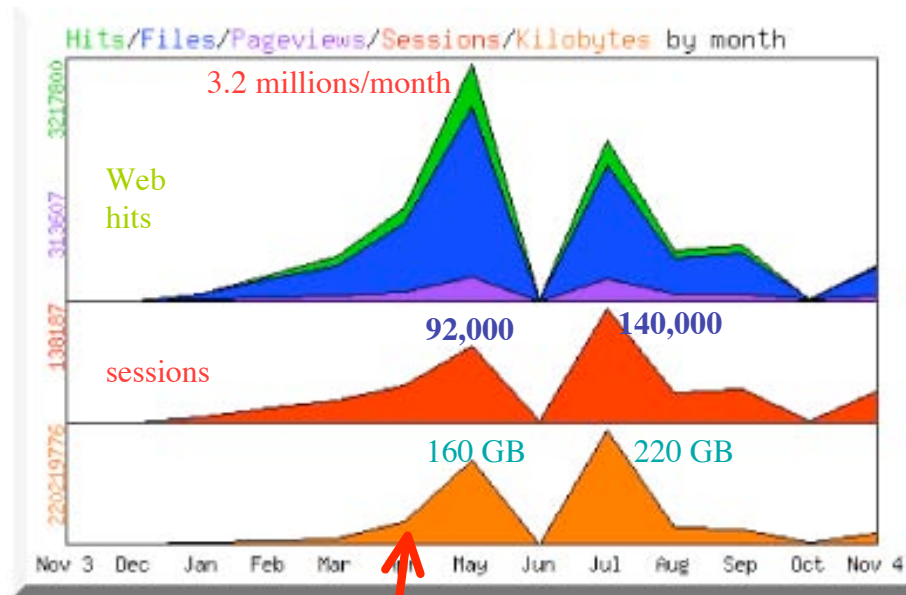
VENUS TRANSIT 2004 - Veneta pasaja

VENUS TRANSIT 2004 - Veneta pasaja

VENUS TRANSIT 2004 - Veneta pasaja



# Statistics

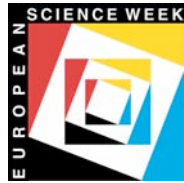
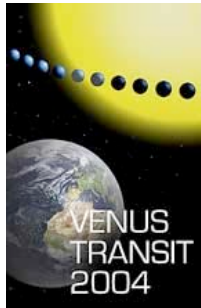


New web site!

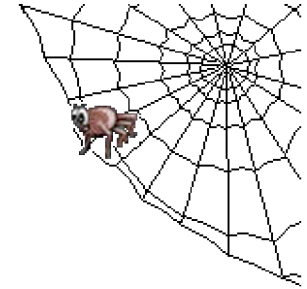
Month	Hits	Files	Cached	Pageviews	Sessions	KB sent
September 2004	759017	655043	83202	86910	40343	28067780
August 2004	675412	580123	78647	85960	35281	29419660
July 2004	2176214	1842432	243372	292872	138187	220219776
June 2004						
May 2004	3217800	2631118	520991	313607	91923	159669136
April 2004	1267093	1052134	193225	119985	44368	42685940
March 2004	596165	482188	102447	61970	25877	9391360
February 2004	349444	284271	57880	35887	16806	5152100
January 2004	95213	78864	10079	8823	5404	1152202
<b>Total</b>	<b>9168509</b>	<b>7635270</b>	<b>1292323</b>	<b>1009452</b>	<b>400639</b>	<b>497177888</b>
<b>Average</b>	<b>764042</b>	<b>636272</b>	<b>107693</b>	<b>84121</b>	<b>33386</b>	<b>41431492</b>

Total: 400 000 sessions and  
500 GB downloaded...  
(if except June)





VT-2004 - The Web



# Statistics

In May 2004, Top URLs:

- Media page cf vt-comm-02, 03, 04
- Background Info on Venus' orbit, observing transits, significance of transits, predictions

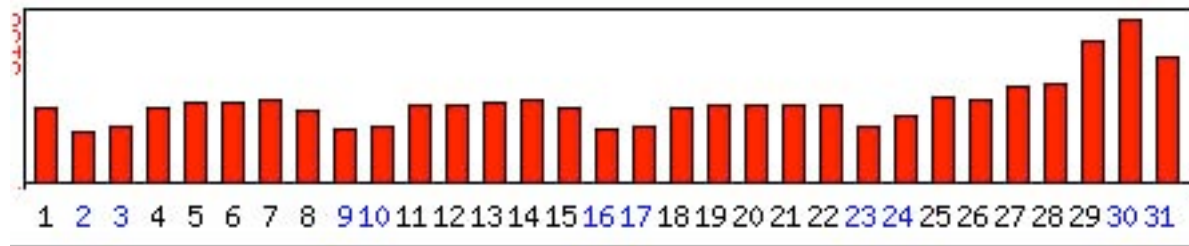
October:

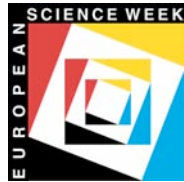
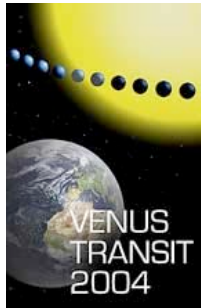
50 000 sessions

32 GB

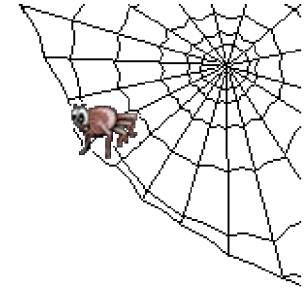
Distance in the Universe, Observing VT, The Sun

End October: Number of visitors rises again!





VT-2004 - The Web



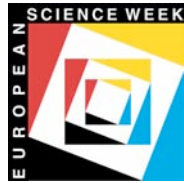
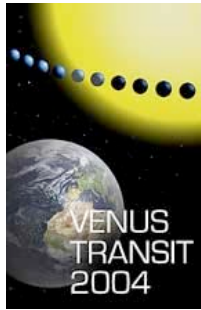
# The V-Day

## ESO HQ – Garching (Germany)

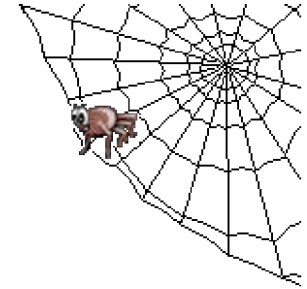
- starting at 02:30 in the morning
- 5 specialists (astronomers + IT)
- 2 students from European School
- AGAPE observing team outside
- technical service team on call
- end of hot phase at ~15:00



VT-2004 Control Room



VT-2004 - The Web



# V-Day: Central display



- ESO
- OUTREACH
- EDUCATIONAL OFFICE
- PROGRAMMES
- VENUS TRANSIT 2004
  - Introduction
  - Latest News
  - Background
  - Safety!
  - Students and Teachers
  - Media
  - Amateurs
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  - VT-2004 Network
  - In Your Region
  - How to Participate
  - Video Contest
  - Gallery
  - Photos
  - Animations
  - Day of the Transit
- Central Display
- Weather
- Observers' Locations
- Video Clips
- CD Archive
- Other Websites
  - Forum
  - Frequently Asked Questions



VT-2004 No. of registered participants :	1985
No. of observers with timings :	0
No. of timings sent :	0
Official value of 1 AU :	149597870 km
Calculated AU :	0 km
Dispersion :	± 0 km
Absolute Difference :	-149597870 km
Difference as percentage:	100.000 %

Last update: 2004 Jun 07 21:32 CEST (this page refreshes automatically)

quick links: [weather](#) - [forum](#) - [nodes](#) - [video](#) - [participate](#) - [observers](#) - [links](#) - [archive](#)

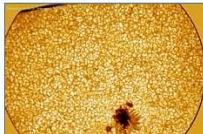
[... more \(with graphics\)](#)



JOIN THE CAMPAIGN!



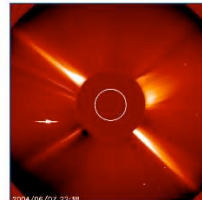
OBSERVERS



SST - Swedish 1m Solar Telescope  
June 7 12:53 UT  
La Palma, (Spain)



Test image of the Sun  
June 7, 14:00 UT  
14-inch Celestron  
AGAPE - ESO HQ  
(Garching, Germany)



2004/06/07 22:38  
SOHO LASCO - C2 (ESA)

**Latest Comment (June 8, 01:30 UT):** The DAY OF THE TRANSIT has begun - the vt-2004 team is here to accompany you through this unique experience! Soon we will begin to display images of the Sun taken this morning by professional telescopes. This image taken 12 hours ago with the Swedish Solar Telescope (SST) on Tenerife (left) shows the so-called "granulation", cells of hot gas (hundreds of kilometres across) moving around near the visible "surface" of the Sun. The dark feature in the lower part of that image is a "sunspot", a region somewhat cooler than the surroundings. Venus is now very close to the Sun in the C2-image from SOHO-LASCO (right), approaching it from the left. A test photo of the Sun (middle) was obtained by the ESO amateur astronomers (AGAPE) in the afternoon on June 7. While you are preparing for today's event, why don't you get into the right mood by listening to John Philip Sousa's "Venus Transit March", from 1882?



OTHER WEBSITES



WEATHER



FORUM



NODES



VIDEO



SEARCH



ARCHIVE

[Printable Page](#)

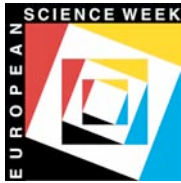
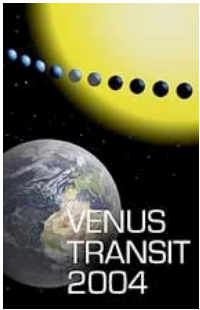
last modified: 2004/06/07

© ESO Education & Public Relations Department  
Karl-Schwarzschild-Strasse 2, D-85748 Garching, Germany

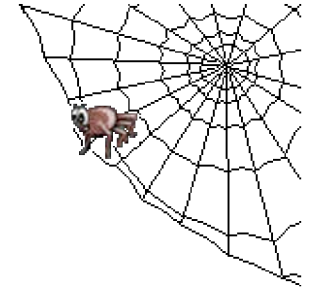
- Best Photos from Primary Partners
- On-line AU Calculation
- Webcam -- ESO amateurs
- Live commentary
- Web surfing
- Forum and email answers
- TV interviews...

Hundreds of mirror sites

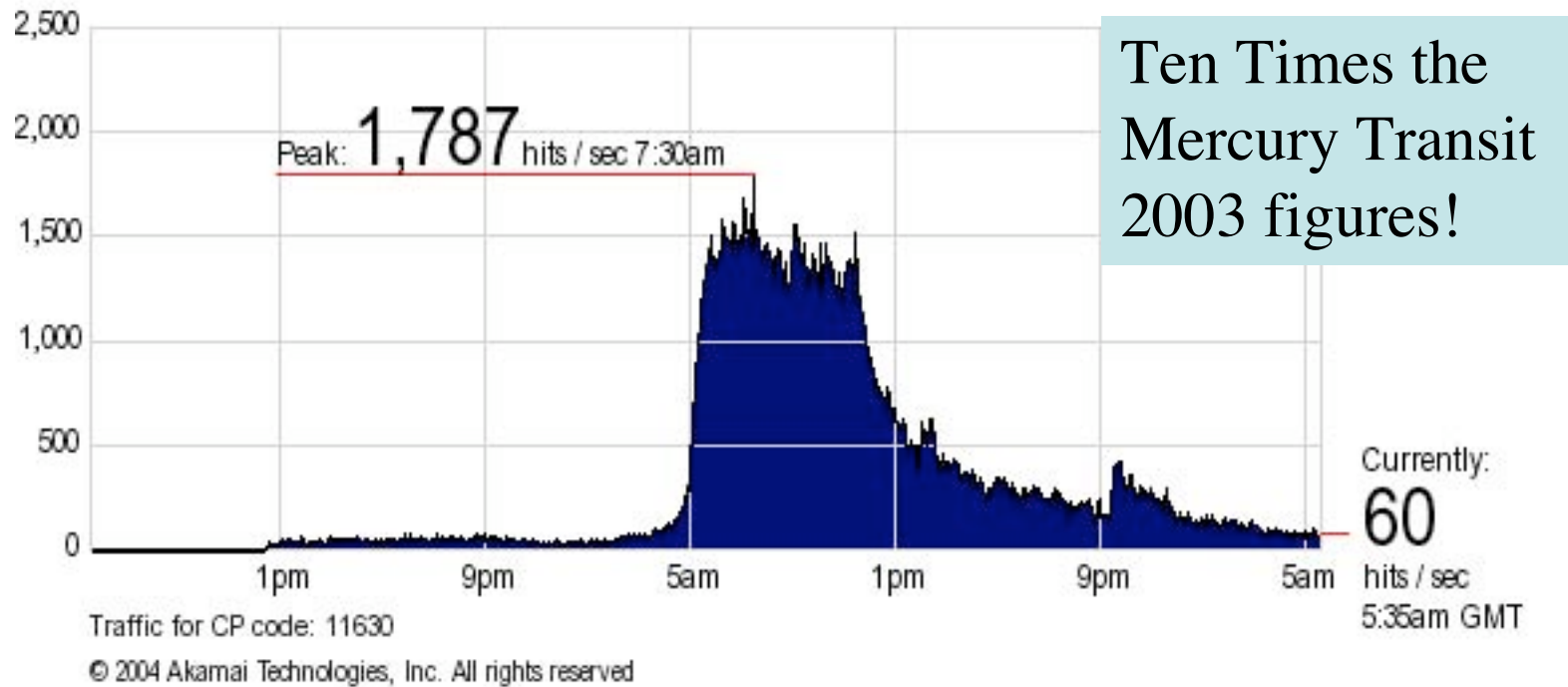




VT-2004 - The Web

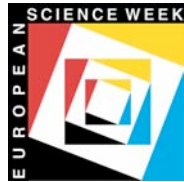
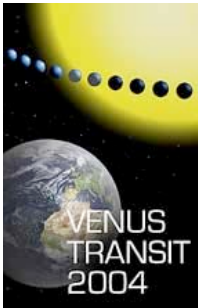


# V-day

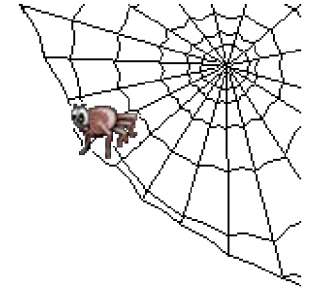


At peak time, 100 000 hits/min!

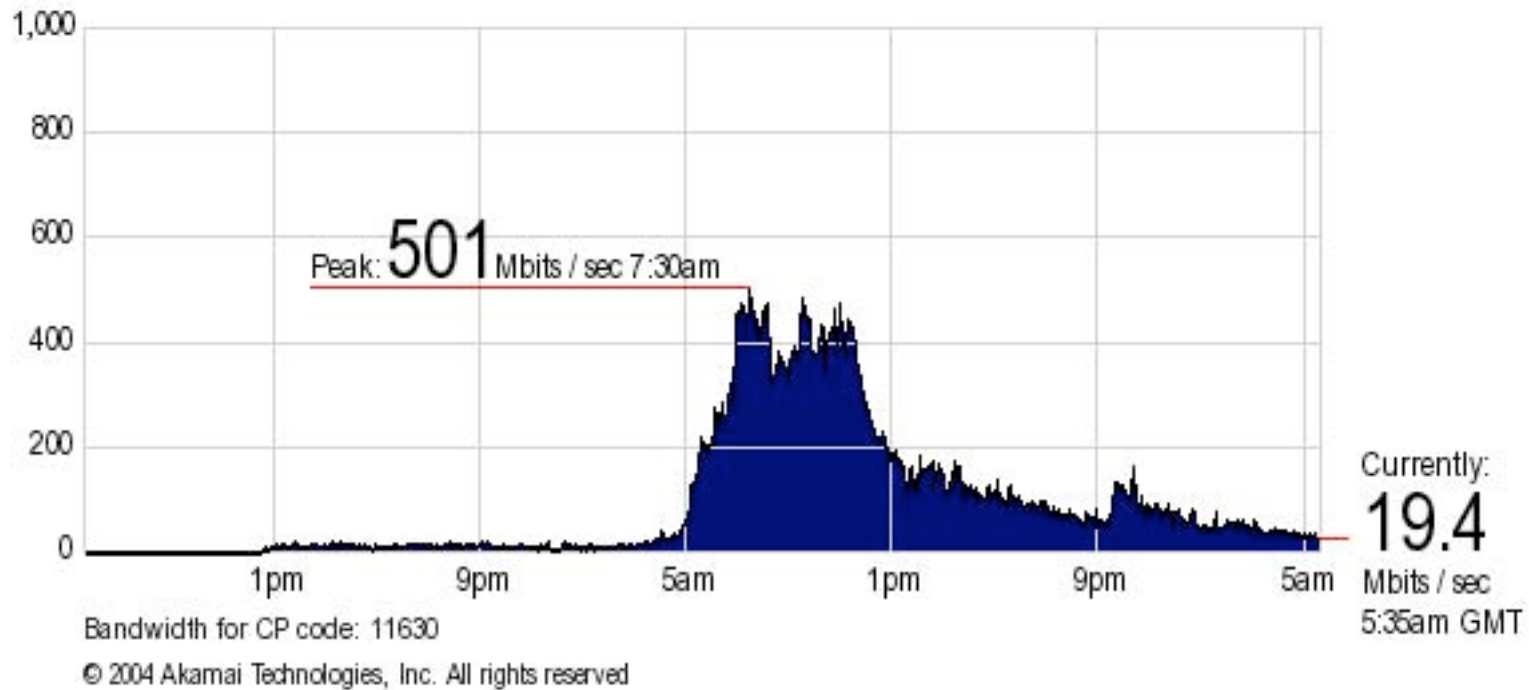
55 Million Web hits/8 hrs



VT-2004 - The Web

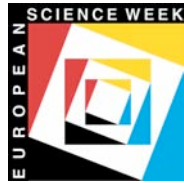
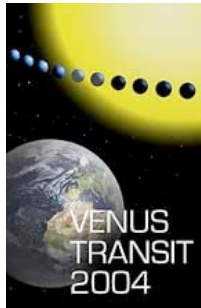


# V-day

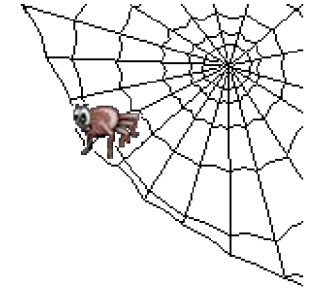


In total:

1.75 Terabytes delivered!



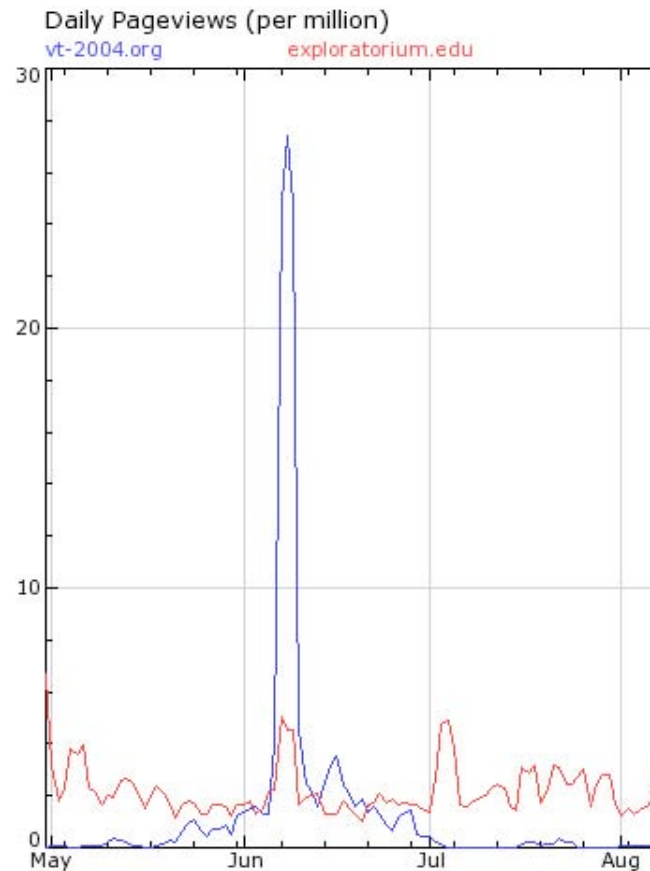
VT-2004 - The Web



# VT-2004 - June 8

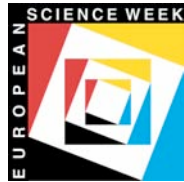
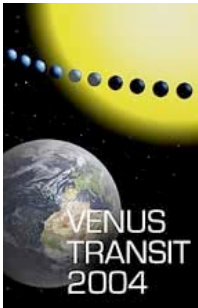
www.VT-2004.org was the most successful web site for the transit

- Always on-line
- Very complete
- Many viewers

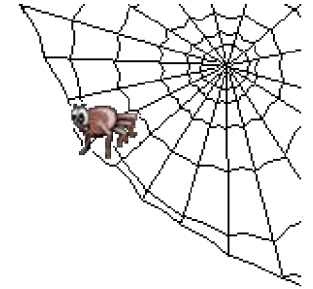


© 2004 Alexa

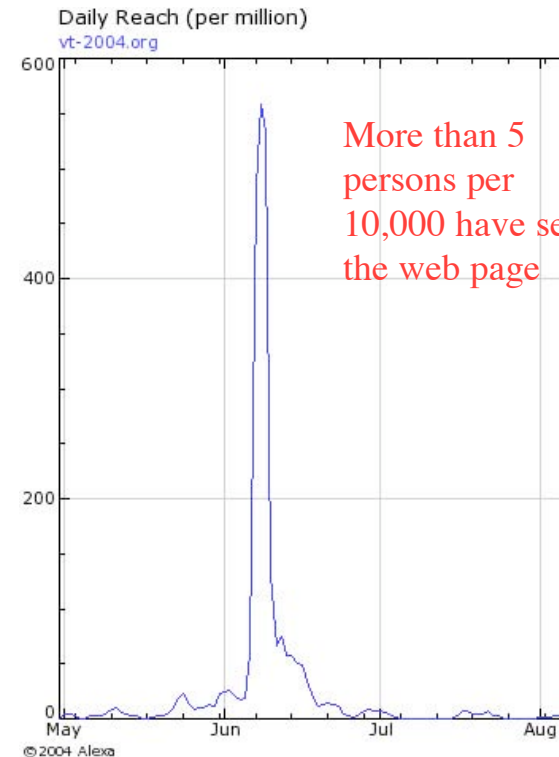
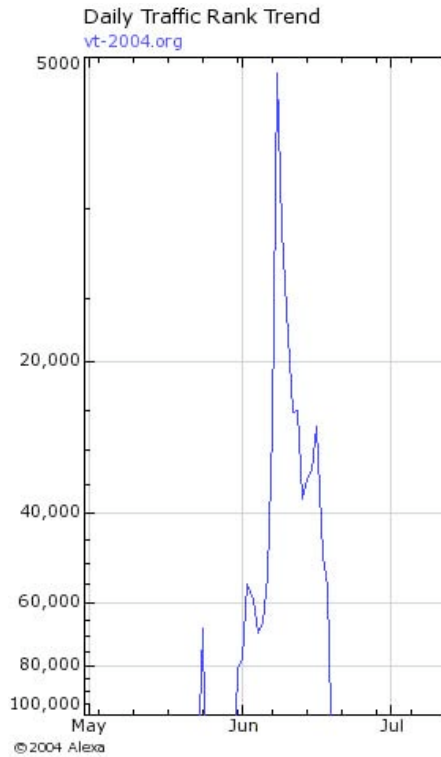
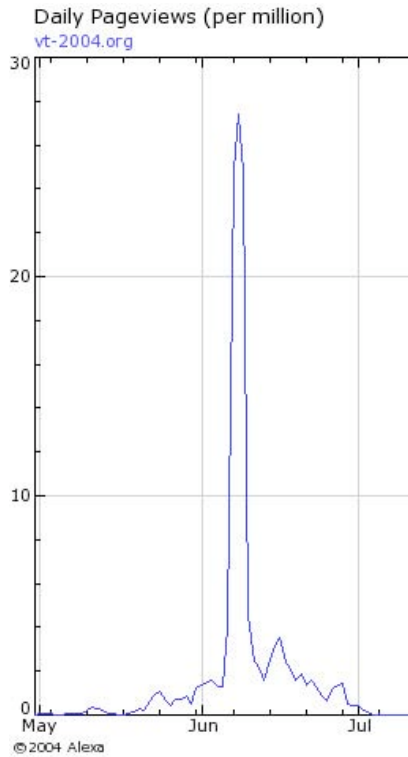




VT-2004 - The Web

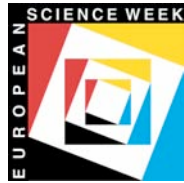
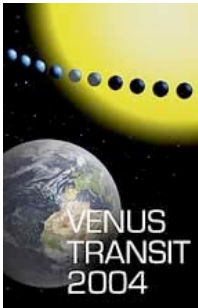


# V-Day Statistics

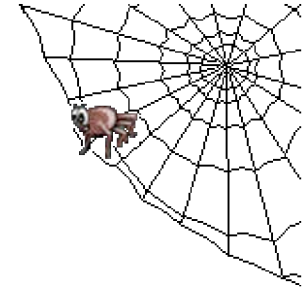


World rank:  
< 6,000





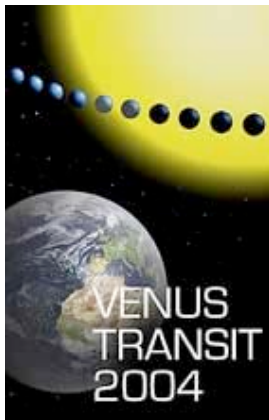
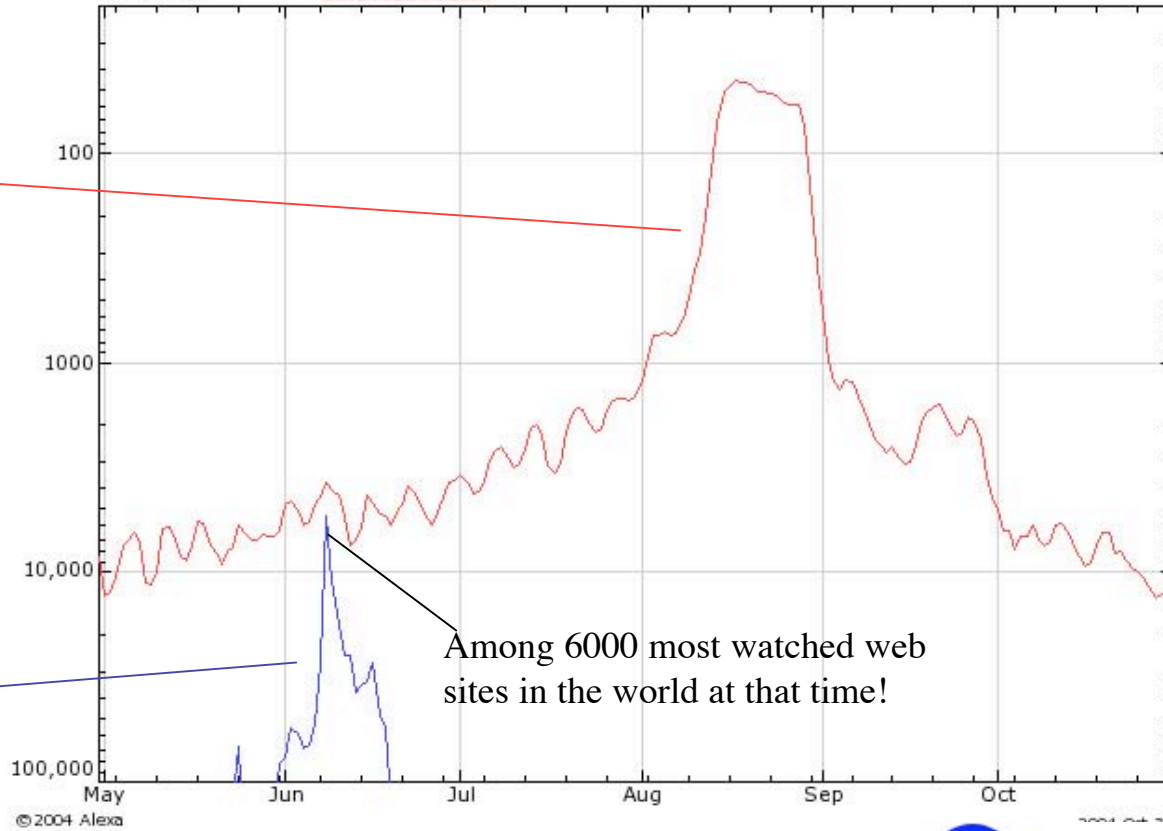
VT-2004 - The Web



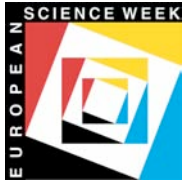
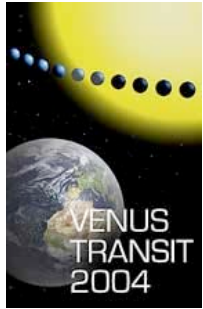
# Rank

Daily Traffic Rank Trend

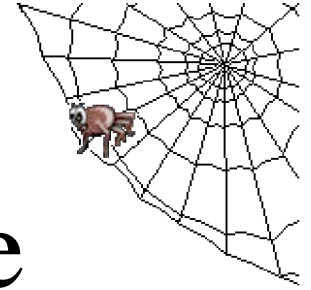
vt-2004.org      athens2004.com





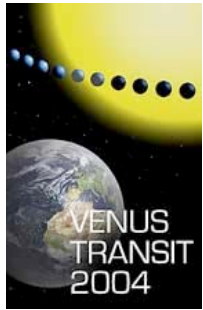


VT-2004 - The Web

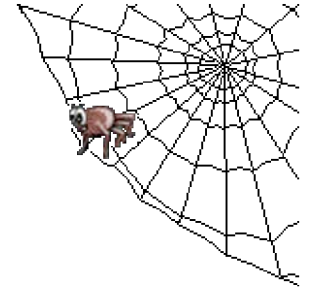


# A great success! Some praise

- *Thanks to the team for the **excellent work** on this website which I have enjoyed viewing today - glad you and all your correspondents were able to get such superb images for us to enjoy.*
- *Thanks for the movies! **It was cloudy at my location** ); but at least I was able to watch the transit online. (:*
- *Beautiful images; wonderful information; clear, concise commentary...**this site has it all.***
- *Great job done by all at the ESO. Hope your team will be together again for the next Venus Transit!*

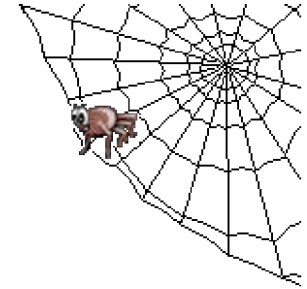
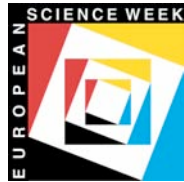
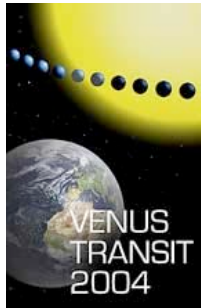


VT-2004 - The Web



## A great success...(II)

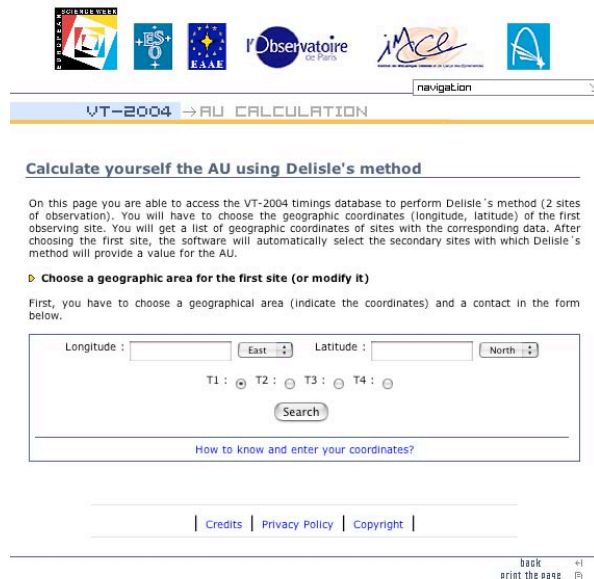
- *Very well done indeed. A really well organised online event. I felt part of something much bigger. The constant updates of picture and video were **fantastic!!***
- *MERCI ! Très sympa, **warm feeling yesterday**, only too rare on this tiny planet of ours!*
- *I feel a bit sad and lonely now this project is over.*
- *In Dallas, Texas we had no chance to observe the transit - but thanks to all of you we could easily share in the excitement and be a part of the occasion. **What a wonderful connected world we live in!***



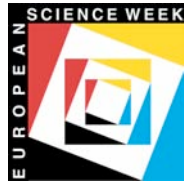
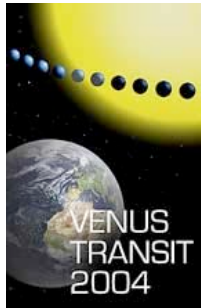
# So...

The VT-2004 Web site proved very popular during the Transit itself but thanks to a perfect preparation, it all went very well...

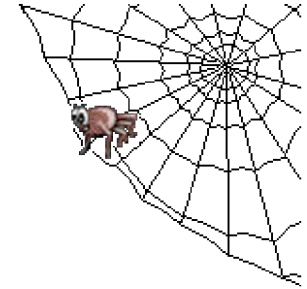
It is a gold mine which will prove useful for the years to come.



For example, you can compute yourself the AU using the unique VT-2004 measurement database, or download photos for making your own measurements, etc.



VT-2004 - *The Web*



# Be prepared for 2012...

## Details and prospects for the transit of Venus, 2012 June 5-6

As transits of Venus are among the rarest of planetary alignments, the next transit of Venus across the face of the sun, which will take place on 2012 June 5 and 6, is a very special astronomical event. This will be the very last transit of Venus of this century! If you are determined to witness this spectacle from start to end, therefore, it is essential to know where to watch. This page offers all the information you need, ranging from the computation of your local circumstances and a map showing the global visibility, to the weather prospects. Also, you will find the extreme values for the transit, so you'll know for instance where the transit will start first and where it will last longest.

- ▼ Your local circumstances
- ▼ General circumstances
- ▼ Extreme values
- ▼ Zenith-relative movement of Venus
- ▼ Weather prospects



The transit of Venus in progress, 2004 June 8. (Photograph by Cees Bassa, Utrecht, The Netherlands)

The Web will help you!