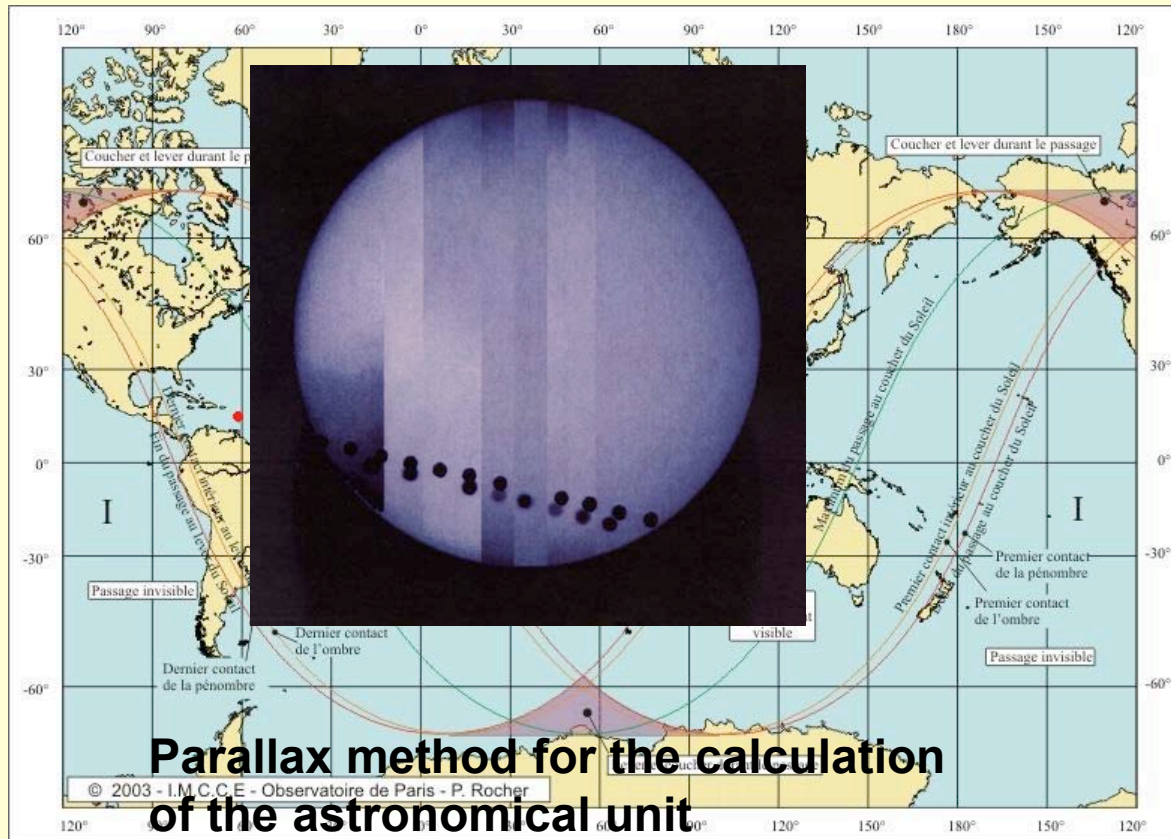


French national node report

Isabelle Daumont (Obs. Paris / Ministry of National Education)

Before the 8th of June

- Schools, high schools
 - **LUNAP** (universe on hand: pedagogical project using the sciences of the Universe to develop scientific culture of students):
subventions (10000€) for 15 educational establishments



Expedition to the Spitzberg



St Louis de la Réunion high school

Before the 8th of June

- Schools, high schools

- **LUNAP** (pedagogical project using sciences of Universe to develop scientific culture of students)

- **CLEA** (**Comité de Liaison Enseignants et Astronomes**
Teachers and Astronomers Linking Committee)

With more than 700 members, the CLEA promotes the teaching of astronomy at all the levels of education, through publications and actions like

:

The observation and use of the transit of Venus



Superimposed photos at 8h00 UT from Dijon and La Réunion

The CLEA protocol consisted in making photos of the Sun, every 30 minutes at rounded UT (8h00, 8h30, 9h00 etc...) from different places.

By superimposing the photos, the distance to the Sun can be calculated in a straightforward way.

Some papers published in our bulletin : Les Cahiers Clairaut (CC 105-107)

The results (in Mkm)

153 Calern
122 Chinon
191 Dijon_1
132 Dijon_2
184 Draguignan_1
152 Draguignan_2
168 Ferney-V.
161 Spitzberg
118 Lyon
165 Marseille
125 St-Genis L.
135 Tarentaise
244 Versailles_1 *
159 Versailles_2

mean value

151 ± 7 Mkm

* rejected at 2σ level

Before the 8th of June

- Schools, high schools
 - **LUNAP** (pedagogical project using sciences of Universe to develop scientific culture of students)
 - **CLEA** (Teachers and Astronomers Linking Committee)
 - **Main à la pâte** (a program to teach sciences in primary schools)
 - Teachers' formation (UFE Observatoire de Paris)
 - Preparatory conferences in educational establishments or pedagogical centers (IUFM, IREM)

Before the 8th of June

- **Observatories :**

- Exposition at the observatory of Paris: «Venus in the heart of the glowing fire» (may-june 2004)



- Web sites: **IMCCE/Obs Paris** (including information sheets)
observatories of Lyon, Marseille, Côte d'Azur, Besançon
- Support : book (Le passage de Venus : IMCCE/EDP Sciences);
historical CD-Rom (Venus' rendez-vous)
- Open day preparing the transit on the 5th of June (Bordeaux)

Before the 8th of June

- **Amateurs:**

- **Société Astronomique de France** (French astronomic society): web sites

- **Association française d'Astronomie** (French astronomic association):

10000 posters ⇒ 300 local clubs

Eg : Uranoscope, Obs. des Makes (La Réunion),...

- **Scientific institutes and organizations:**

association of planetariums APLF (bulletin) , museums (Palais de la Découverte), scientific and technological culture centers (astrorama...)

On the 8th of June

- Welcoming the public :
 - 16 observatories or laboratories of CNRS open to the public (and schools on reservation)



On the 8th of June

- Welcoming the public
 - 16 observatories or laboratories of CNRS open to the public (and schools on reservation)
 - ✓ Eg : 6000 p. at the obs. of Paris, 1500 p. at the obs of Meudon



- ✓ Conferences, expositions, shows
- ✓ observatory delocalized in different places in Nice town
- Amateurs : on natural spots, in scientific centers and educational establishments
- Collaborations between associations of amateurs and observatories, eg: Juvisy and Lyon (SAF)

On the 8th of June

- Repercussion on the media (national TV, press) eg : Le Monde



- Web sites :

- Live broadcast : LESIA (Obs. Meudon) + IAS, Besançon, Côte d'Azur, Paris-Meudon, Strasbourg...
- contacts and pictures collecting: IMCCE / Obs. Paris

- Calculating AU (cf J.E Arlot) on the web (live or for later pedagogical projects)

Prospects after the 8th of June

□ conferences, expositions during scientific events (Fête de la science)
travelling expositions (APLF) or available on the web (IMCCE/Obs. Paris)

□ the LUNAP operation for science education allows:

- virtual observation of Venus transit:
data bases on the IMCCE web site

<http://www.imcce.fr/vt2004/>

- already on line : **data base** of the observation of contacts for 1600 different locations allowing the calculation of a.u
- in process: realization of a data base of the images of Venus in front of the Sun
- promotion of other astronomical projects:
 - Eg : F-Hou project, CLEA pedagogical document

