Attachment(s):

(1) "SOLAR PHYSICS PHENOMENA DIVISION ECUADOR", 5 MB, 55 pages.

: Re

Quito Observatory, Ecuador.
(presentation by Prof. Lopez)

Dear ISWI Participant:

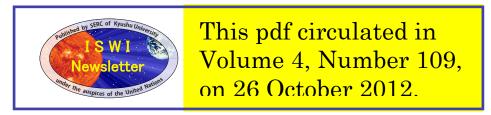
Yesterday in Volume 4, Number 108, I misspelled the name of the author of the IAU Working Group report. The correct spelling of his name is: David Webb.

Today, I attach the presentation by Prof. Ericson Lopez during UN/Ecuador Workshop on ISWI. He was the organizer of the workshop and he is also the Director of the Quito Observatory. Please note that towards the end of this pdf you will see the future plans for space-weather-related observation, research, and education, under the supervision of Prof. Lopez.

During the ISWI workshop, we had a conducted tour of the old observatory. It has been beautifully refurbished — tomorrow I will attach the photos (a 2 MB pdf) that I took during this conducted tour.

Sincerely,

George MaedaThe EditorISWI Newsletter



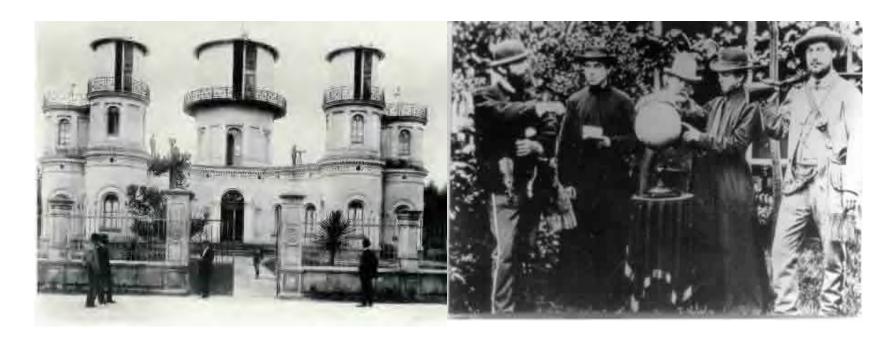
SOLAR PHYSICS PHENOMENA



NEW SPACE PHYSICS DIVISION OF QUITO ASTRONOMICAL OBSERVATORY

Ericson Lopez and Kleber Vicente

QUITO ASTRONOMICAL OBSERVATORY



Quito Astronomical Observatory was founded in 1873 by President Gabriel Garcia Moreno.

Quito Astronomical Observatory is one of the oldest in Latin America





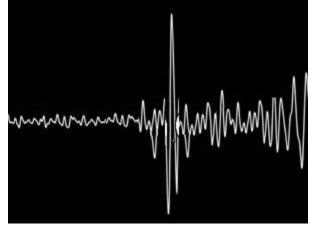
Collection of Instruments



Seismographs

In 1910 the first mechanical Bosch-Omori seismograph was intalled.







Mainka (1929).

The seismographs, are located in the basement and are still working perfectly



METEOROLOGY

The First Station in Ecuador



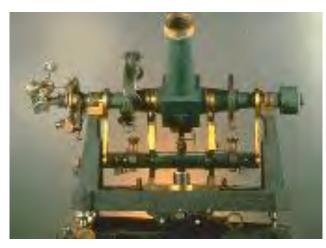




The meteorological station of our observatory is in operation at its current position since 1891.

ASTRONOMICAL HERITAGE













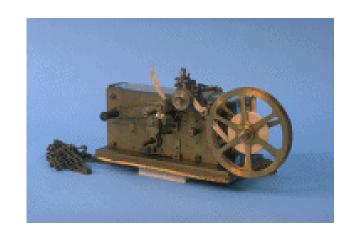






Clocks and Chronographs







Electromagnetic Chronograph

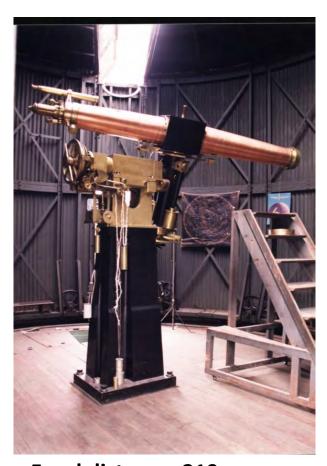
Steady Refracting Telescopes

The Great Meridian Circle Repsold (1889)



focal distance 200cm, lens: 162mm.

Merz Refracting Telescope (1875)



Focal distance: 319cm

lens: 238mm

A huge paper heritage, made of the volumes of the Library and the manuscripts of the Historical Archive. It is preserved at the Observatory.



Library and Historical



Celestial and Terrestrial Atlases

The Historical Library owns incunabula, a apreciable stock of the 18th, 19th and 20th centuries.

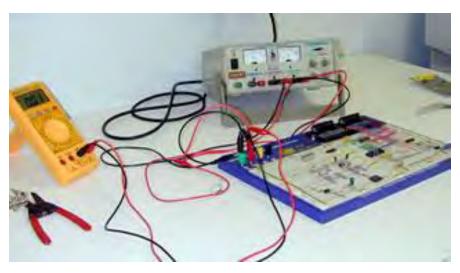
The astronomic instruments of the observatory are a great tourist attraction and usually awaken the interest of both locals and tourists











ACTIVITIES



Astronomy and Astrophysics

RESEARCH:

Theoretical Research
Astronomical Data Analysis

EDUCATION:

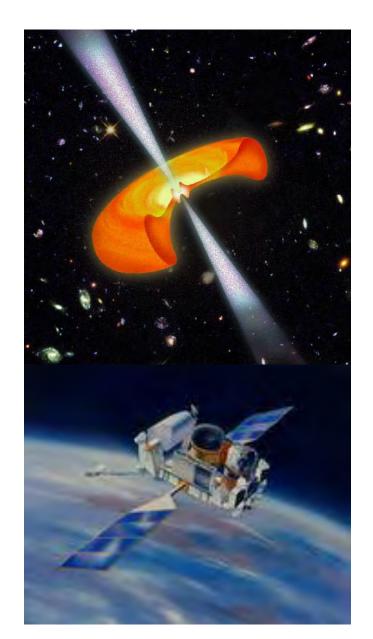
Formal courses of astronomy Public lectures

PROMOTION AND POPULARIZATION:

Museum
System of robotic telescopes
Public information



Theoretical Research



- Cosmological Models with non-zero cosmological constant
- High Energy Astrophysics
- Radiation Transport Theory
- Gamma-ray astronomy
- Galaxies



Virtual telescopes and astronomy in the classrooms using Streaming

System for connecting Several OAQ telescopes.

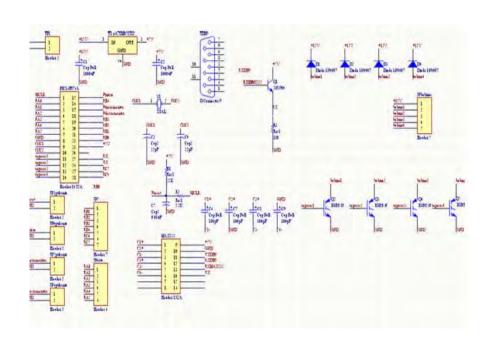
Oldest Quito Observatory Telescope has been Automatized

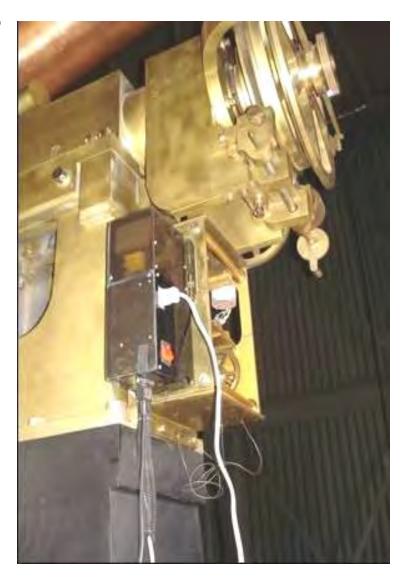
Automatic handling of the telescopes from any computer.

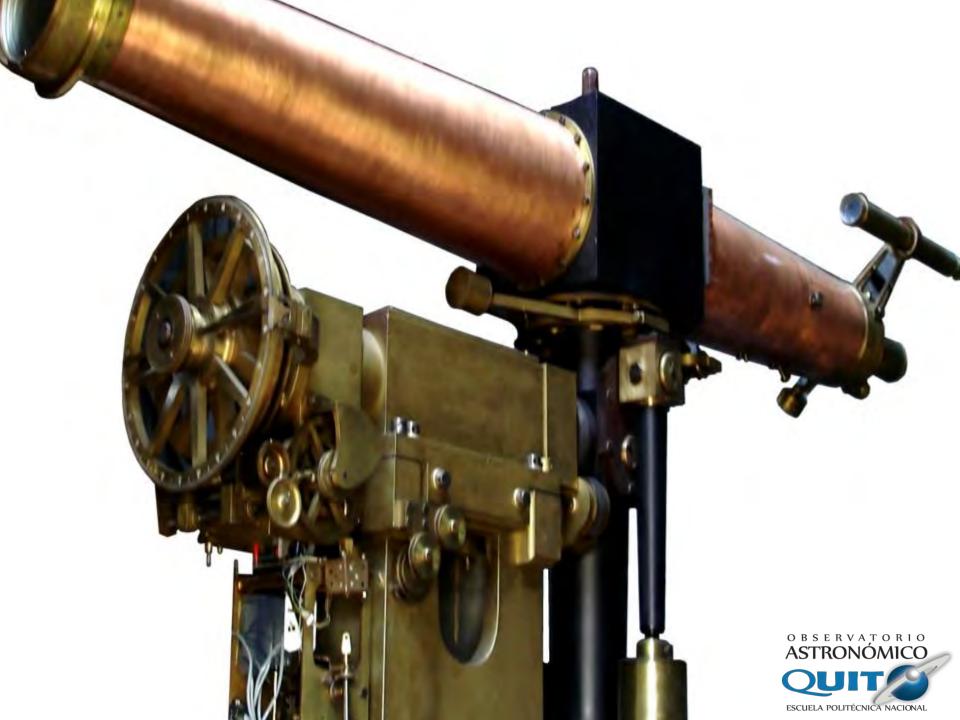
The images collected from the MERZ and MEADE could be available to the community through the internet.



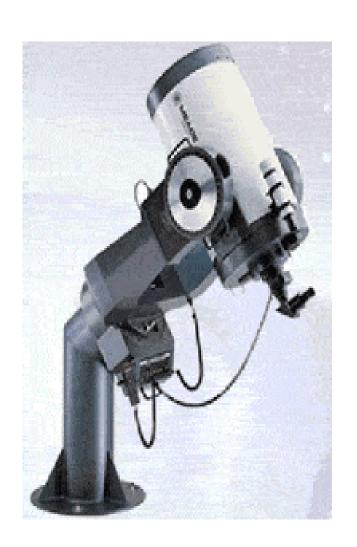
Automatic telescopes







NEW EQUIPMENT

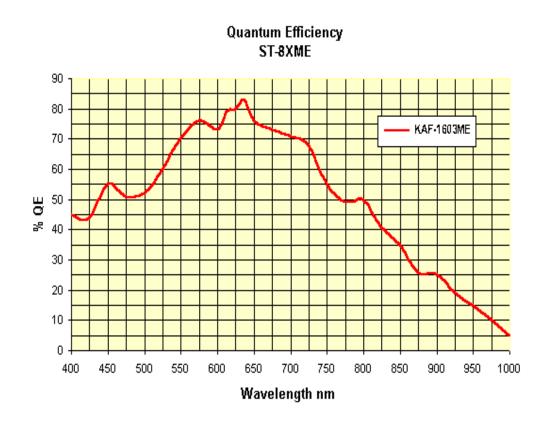


Especificaciones	MEADE 16"
Diseño óptico	Ritchey-Chrétien
Apertura	406.4mm (16")
Radio de la longitud focal	4064mm; f/10
Máxima longitud visual	950X (16")
Montaje	Tipo tripode y ecuatorial
GPS	16 canales GPS
Ocular	26mm
Visor	8 x 50mm
Autostar® II Hand Controller	Incluye 147,541 objetos
Peso	318 lbs.

CCD Cameras

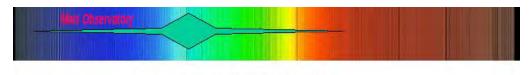




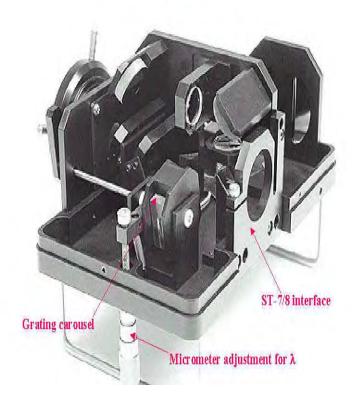




Spectrograph



SBIG Spectrometer

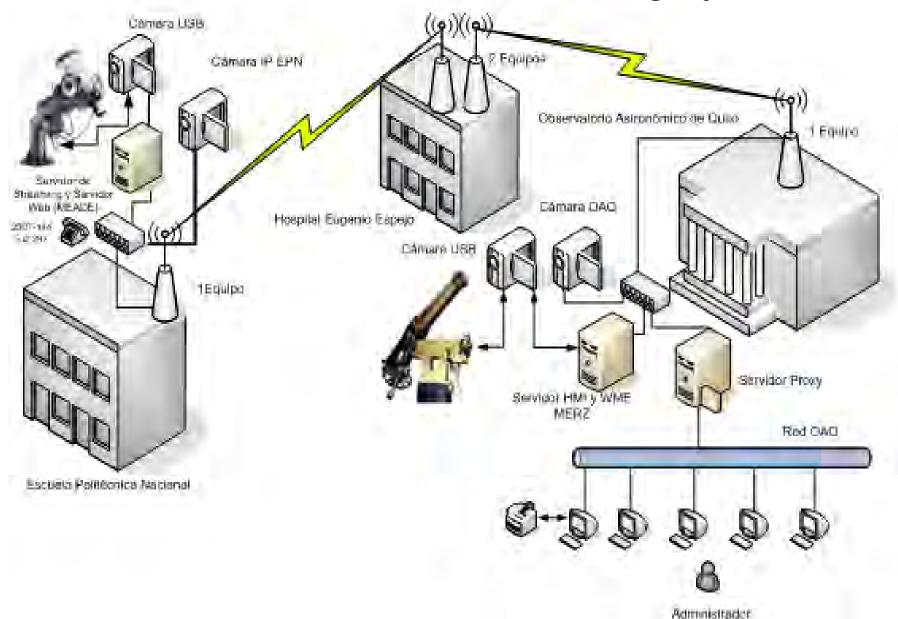


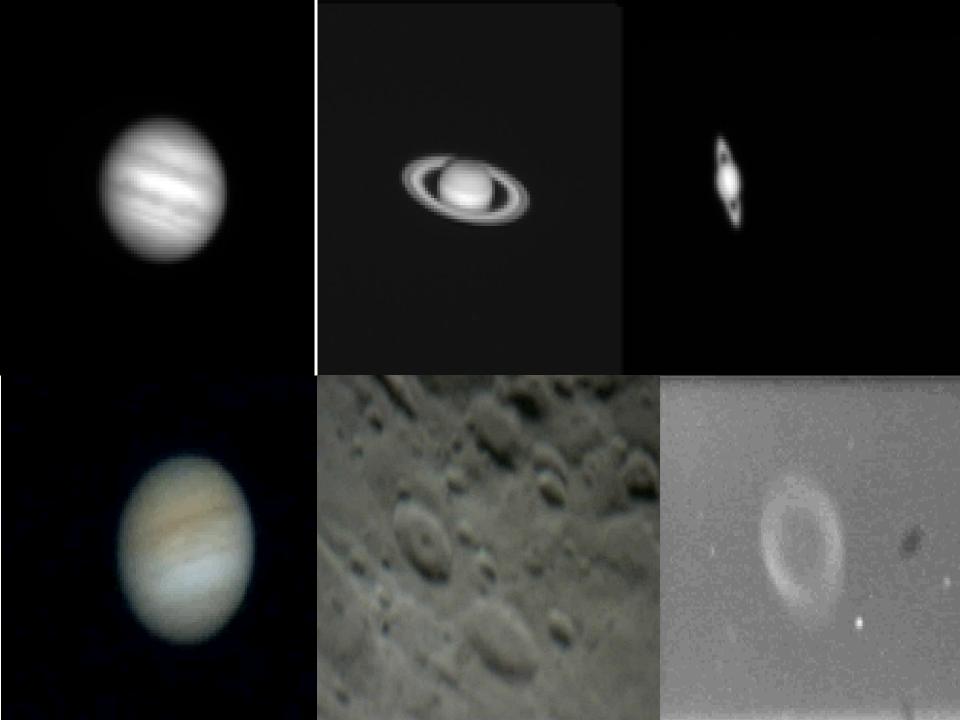
Range from the calcium H and K lines to H-Alpha (3000 Angstroms) with a single exposure.

Resolution will be 10 or 38 angstroms per pixel.

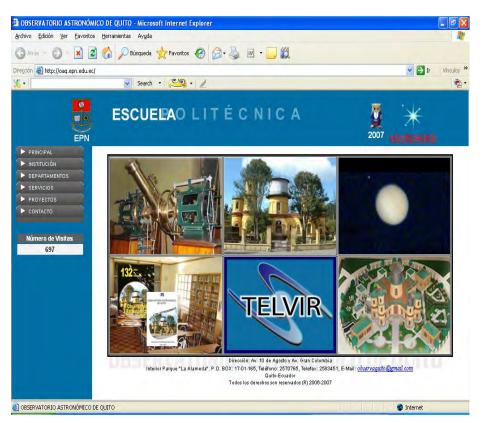


Wireless link and networking system





Web portal access







SPACE SCIENCES PROJECTS



AWESOME







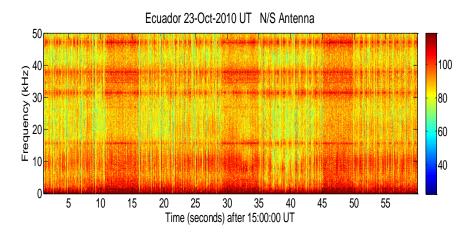
LOCATION

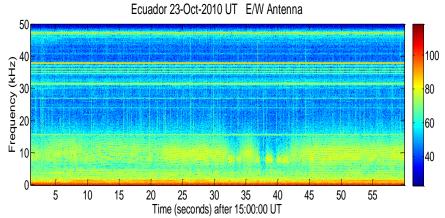


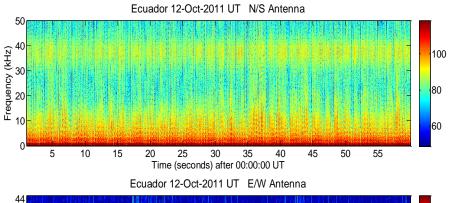


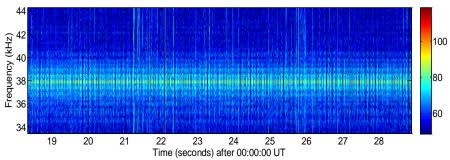
LATITUDE: 0°12'41.29"S; LONGITUDE: 78°29'25.70"O and 2812m

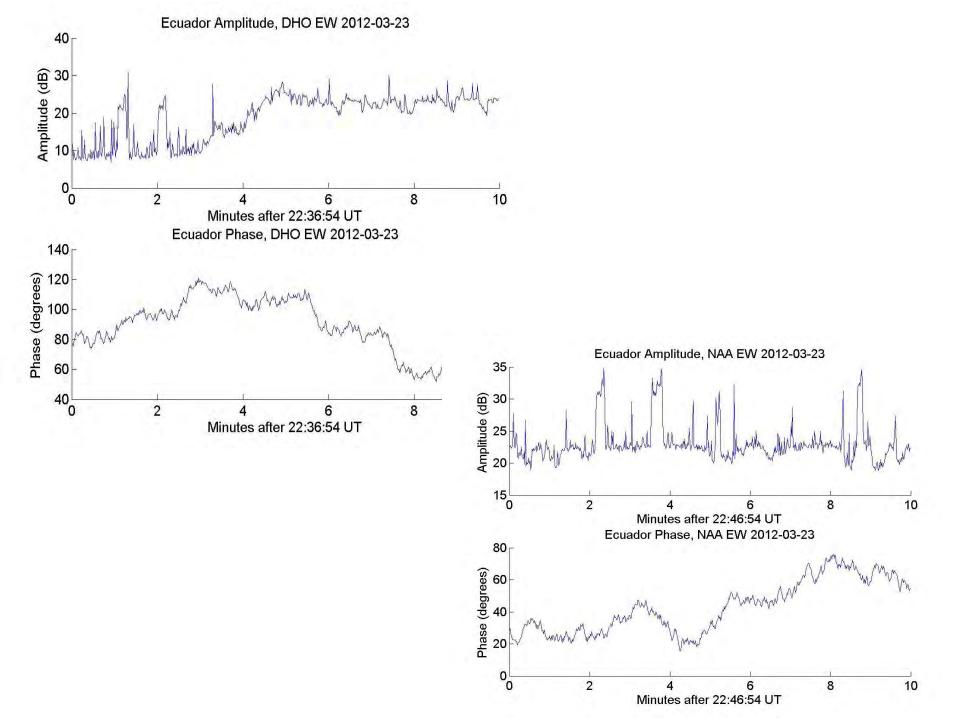












JERUSALEM-MALCHINGUI



Latitude: 0° 0'22.70"S Longitud: 78°21'27.26"O Altura and 2269m

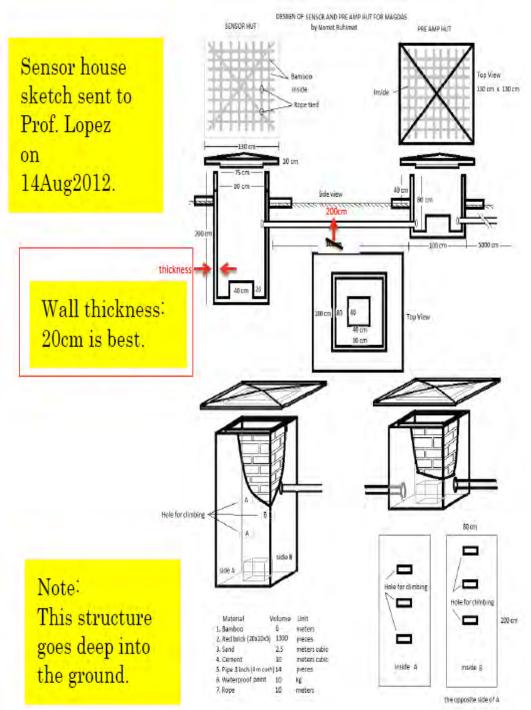
NEW ECUADORIAN ASTRONOMICAL OBSERVATORY



MAGDAS



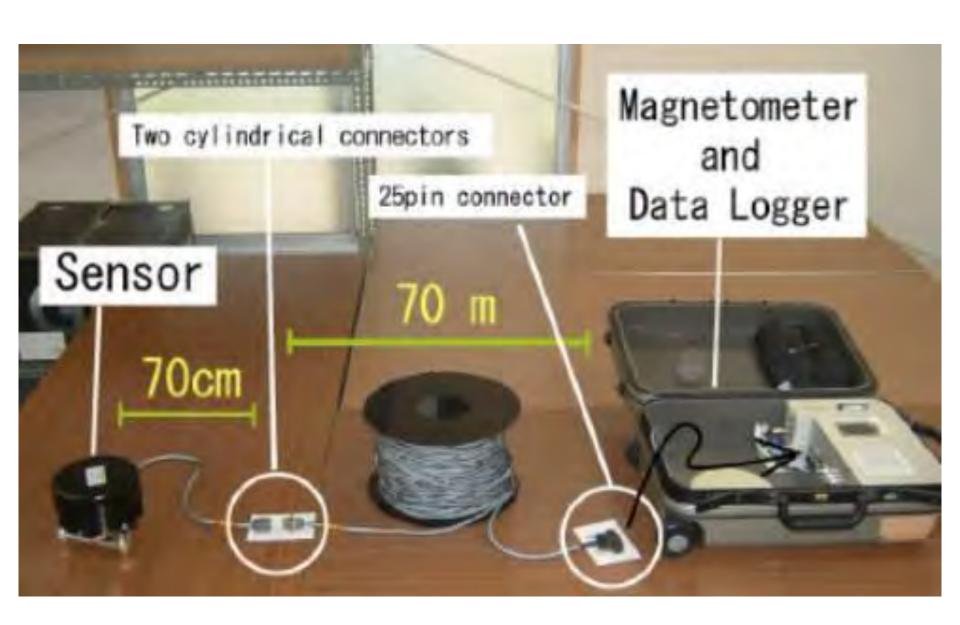








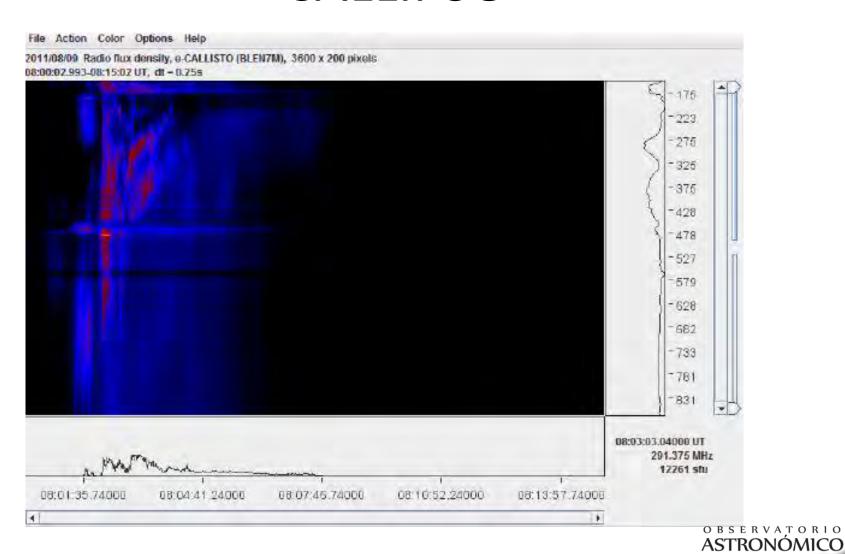




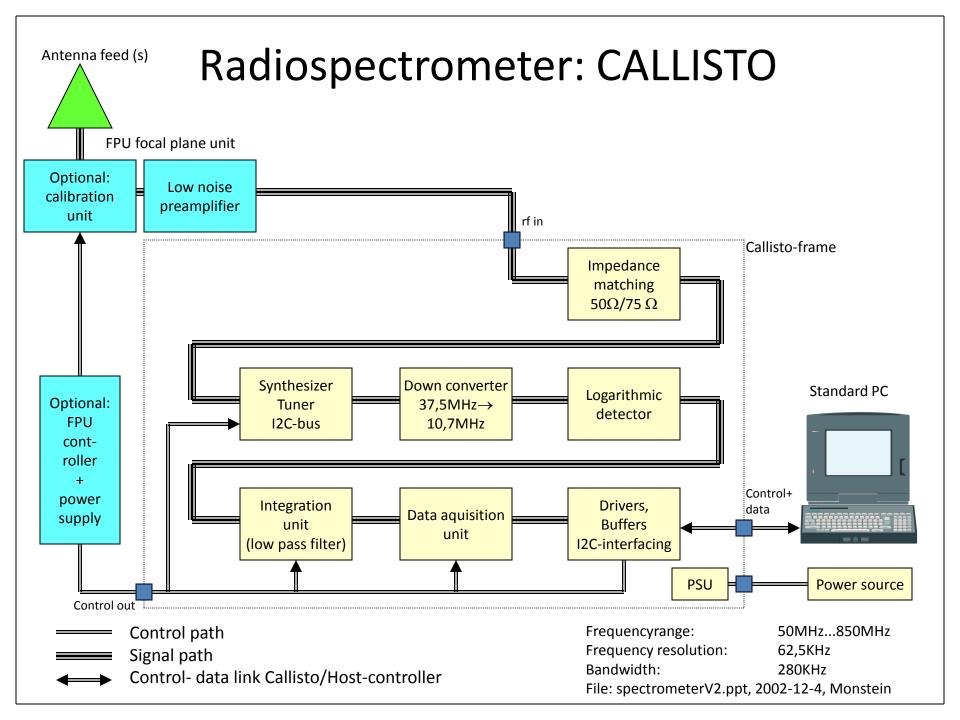
NEW COLLABORATION ARE COMING



CALLIPSO



ESCUELA POLITÉCNICA NACIONAL



SAVNET





GPS



Products and Applications

GPS satellite ephemerides
GLONASS satellite ephemerides
Earth rotation parameters
IGS tracking station coordinates and velocities
GPS satellite and IGS tracking station clock information
Zenith tropospheric path delay estimates
Global ionospheric maps

ESTRUCTURE



ESCUELA POLITÉCNICA NACIONAL

SOLAR PHYSICS PHENOMENA DIVISON

QUITO ASTRONOMICAL OBSERVATORY

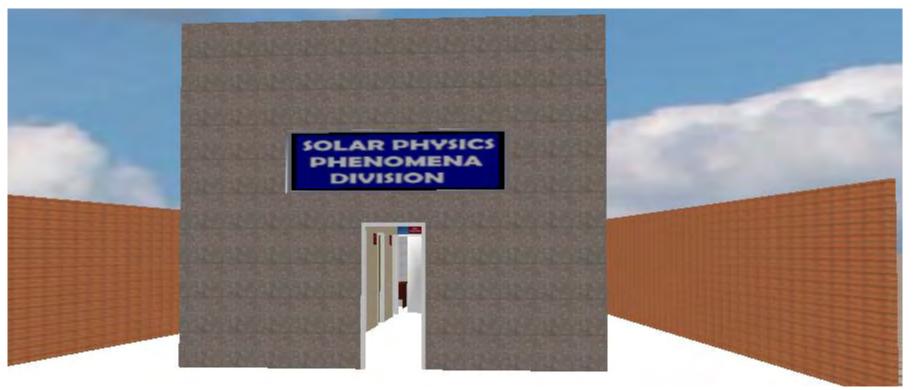


FACILITIES



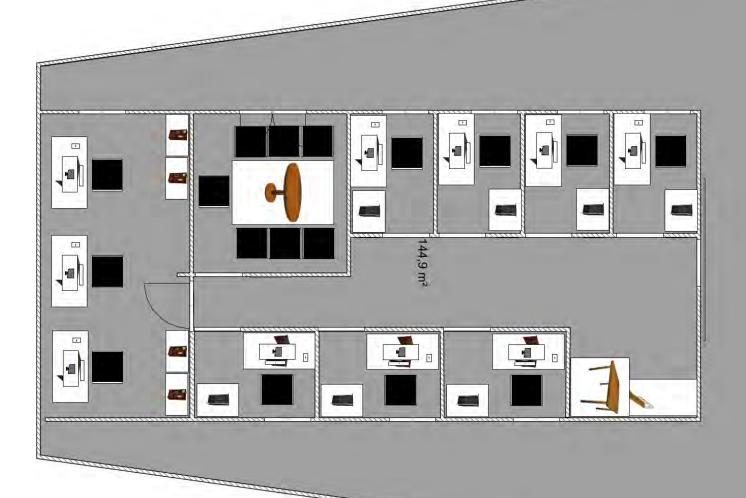


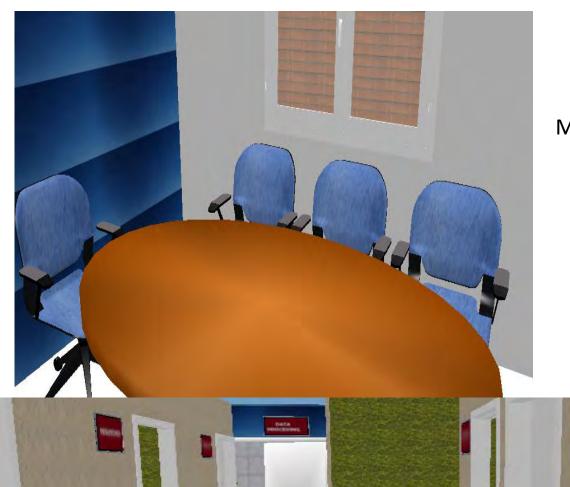
SOLAR PHYSICS PHENOMENA DIVISION





FIRST FLOOR



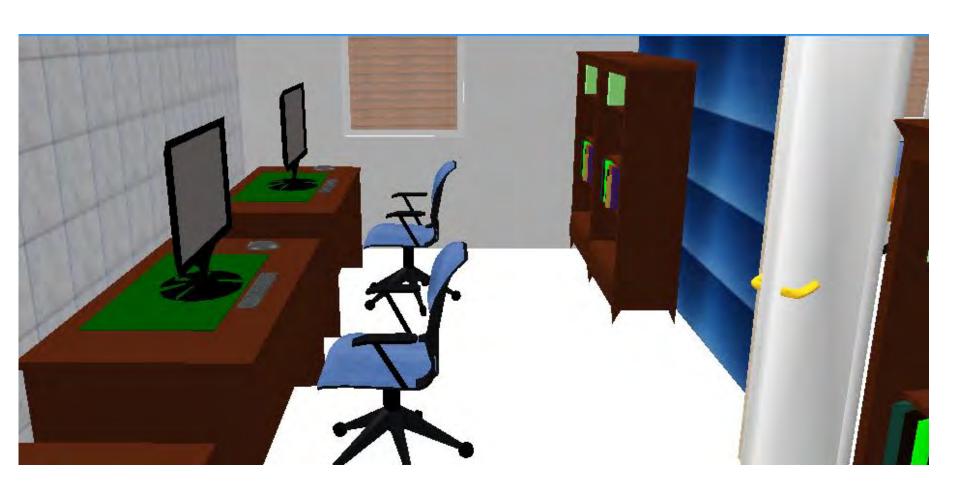


MEETING ROOM

RESEARCH OFFICES



DATA PROCESSING CENTER





UP THE SECOND FLOOR





SECOND FLOOR



LABORATORY PROJECTS

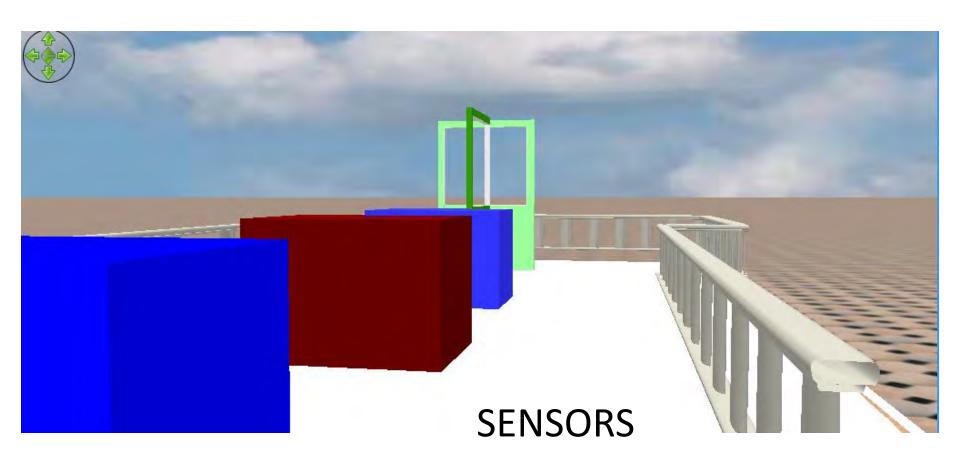


ACCESS TO TERRACE



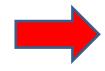


TERRACE









QUITO

JERUSALEM





National Polytechnic School

