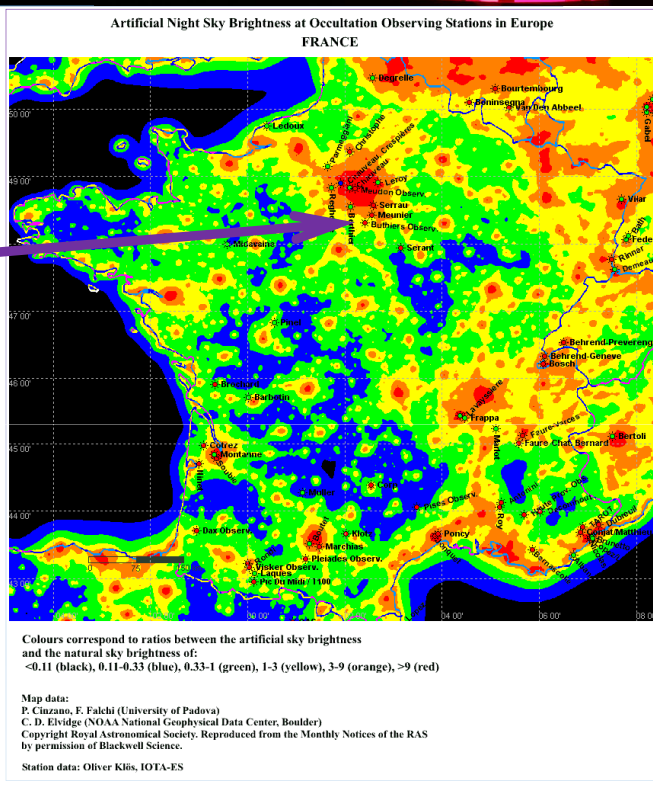




- Since the 1950s, Planète Sciences a leading national French non-governmental organization
- **Aims:** promoting sciences, engineering and technologies, in particular for new generations
- **Activities** especially in **Space** (balloons, rockets..), **Astronomy, Robotics & Environnement**
- Staff of **~70 + ~300** short-term specialized facilitators
- Over **1000 volunteers**, reaching out to **110 000 young people** per year, helping **700 clubs**, intervening in over **400 education institutions**, providing science camps for **over 500 young people** each year
- The Centre d'Astronomie JM Salomon in Buthiers was born in **1999/2000**
- Within easy reach from Paris by suburban train (**RER**) or **Highway**
- Buthiers benefits from a still quite **preserved sky** (SQM ~20, seeing ~2-3"). The local area has been recently legally protected against light pollution ("*Arrêté du 27 décembre 2018 fixant la liste et le périmètre des sites d'observation astronomique exceptionnels en application de l'article R. 583-4 du code de l'environnement*")
- The **first aim** of TJMS is to **train younger generations** in astronomy, through sharing highly technical skills, implicating them in the workflow needed in order to obtain high quality scientific results
- Amateurs (individuals or clubs) can access this special « **Télescope de Mission** » for **demanding observations**, even for short missions (down to one night)
- Volunteers permanently maintain and upgrade the instruments
- TJMS is a **600mm (23")** primary mirror telescope, with a **Newtonian** setup as well as a (Laurent) **Cassegrain** focusing attachment
- Various (CMOS & CCD) **cameras** and time-keeping systems are available on-site (QHY174M-GPS, SBIG STT8300+ASA x0,9+GPS BU 353, AUDINE + ETHERNAUDE) but personal ones can be adapted too. Many different postprocessing techniques (Prism, Muniwin, Tangra...) are used and regular comparisons/discussions held between participants



In the occultation area, noticeable recent missions at TJMS have been:

- occultation by **TransNeptunian Object QUAOAR** (28/05/2019)
- occultation by **TNO HAUMEA** (21/01/2017)
- occultation by **PLUTO** of **UCAC4 345-180315** (19/07/2016)



Come play with us!

UAI 199 station
 Telescope coordinates
 longitude **2°26'16.9" East**
 latitude **48°17'30.4" North**
 altitude **92 m**

COMPTE RENDU DE L'OBSERVATION DE L'OCCULTATION D'UNE ÉTOILE PAR LA PLANÈTE NAINÉ (5000)QUAOAR

Le 28 Mai 2019

Compte-Rendu d'Observation Astronomique
 136108 HAUMEA occulte une étoile
 21 Janvier 2017

Patrick Sogorb ; Arnaud Leroy; Pierre Barroy;
 Marc Serraz; Jean-Paul Godard;

Compte-Rendu d'Observation Astronomique
 Pluton occulte l'étoile UCAC4 345-180315

Jean-Paul Godard; Michael Irzyk; Pierre Barroy;
 David Neel; Didier Lanoisette; Patrick Sogorb

Star: G mag 10.9
 Star: R mag 11.2
 Star: I mag 11.2
 Magnitude: 10.9
 Maximum duration: 01:44
 Position: 02:38:44.2
 Epoch: 2017-01-21

Intriguing interesting pikes but large doubts
 only 1 analysis out of 4 different ones

Haumea 21/01/2017

Occultation Observation Campaign Form

Object Name:	QUAOAR	Occultation Date:	2019-05-28 03:43:00
Observer(s):	Arnaud Leroy; Marc Serraz; Gilles Galles; Jean-Michel Vesseyre		
Star RA:	18 18 20.0000	Star DEC:	38 19 21.0000
Star Name:	Star: 181820.0000 381921.0000		
Star Magnitude:	10.9		
Equipment Information:	Telescope: 1.800 FOC 3.0 Camera & Filter: ZWO ASI 1600MM Time (method): GPS TIME7TAP		
Acquisition Information:	Circle Size (in Arcsec): 1.4 Start Time (in UTC): 21:34:31.34 End Time (in UTC): 21:34:31.34 Time in Header: [List of parameters]		

ASTRONOMICAL OCCULTATION REPORT FORM

Observer: Arnaud Leroy; Marc Serraz; Gilles Galles; Jean-Michel Vesseyre

Occultation Date: 2019-05-28 03:43:00

Object Name: QUAOAR

Star Name: Star: 181820.0000 381921.0000

Star RA: 18 18 20.0000

Star DEC: 38 19 21.0000

Star Magnitude: 10.9

Equipment Information: Telescope: 1.800 FOC 3.0; Camera & Filter: ZWO ASI 1600MM; Time (method): GPS TIME7TAP

Acquisition Information: Circle Size (in Arcsec): 1.4; Start Time (in UTC): 21:34:31.34; End Time (in UTC): 21:34:31.34

Time in Header: [List of parameters]

Observer(s): Arnaud Leroy; Marc Serraz; Gilles Galles; Jean-Michel Vesseyre

Occultation Date: 2019-05-28 03:43:00

Object Name: QUAOAR

Star Name: Star: 181820.0000 381921.0000

Star RA: 18 18 20.0000

Star DEC: 38 19 21.0000

Star Magnitude: 10.9

Equipment Information: Telescope: 1.800 FOC 3.0; Camera & Filter: ZWO ASI 1600MM; Time (method): GPS TIME7TAP

Acquisition Information: Circle Size (in Arcsec): 1.4; Start Time (in UTC): 21:34:31.34; End Time (in UTC): 21:34:31.34

Time in Header: [List of parameters]

many others activities including
 Asteroid discoveries such as
 (125592) Buthiers or (125718) Jemasalomon
 Asteroid tracking (light curves/rotation curves), PHEMUS, PHESTAS
 Exoplanet Transit tracking, Spectroscopy
 Computing & Electronics ...