# Workshop NAROO-GAIA "A new reduction of old observations in the Gaia era"

## **Program and schedule:**

June 20:	10:00-13:00 and 14:30-17:00:
	Science results, reports, data mining
	17:00: tour in Paris Observatory (under reservation)
June 21:	9:30-13:00 and 14:30-17:30
	Reduction, digitization, Gaia star catalogue
	19:00: social buffet
June 22:	9:30-12:30 and 14:00-15:00
	Photographic archives and databases
	15:30: general discussion

### Sessions and communications:

**June 20, 10:00:** Welcome to participants

#### June 20, 10:30-13:00:

1) Science results, reports, data mining – 11 comm.

Arlot J.E. (IMCCE, Paris): Title: Re-reducing old observations: a challenge for the next decade (25 mn)

Lainey V. (IMCCE, Paris) Title: The need of long time series of observations for the natural planetary satellites (25 mn)

Robert, V. et al. (IMCCE, Paris): Title: First study of digitized USNO photographic plates of the Galilean satellites (25 mn)

#### **Coffee break**

Thuillot W. Bancelin D., Desmars J., Hestroffer D. (IMCCE, Paris) Title: Asteroid data mining and precoveries in the Gaia era (25 mn)

Birlan M. (IMCCE, Paris): Title: Near-Earth Asteroids Data mining on Astronomical Databases: Euronear experience. (20 mn)

#### Lunch

#### June 20: 14:30-17:00

Desmars J. (Shanghai Observatory):

Title: Estimation of Yarkovsky acceleration using data mining in the perspective of Gaia (20 mn)

Beauvalet L. (IMCCE, Paris): Title: Interest of old data for the determination of the heliocentric distance of Pluto (20 mn)

Pascu D. (USNO, Washington DC): Title: USNO Satellite Astrometric Observations: 1967-2003 (25 mn)

#### **Coffee break**

Cooper N. (Queen Mary University of London): Title: Cassini ISS Astrometry by the Astronomy Unit at Queen Mary, University of London -An Overview (25 mn)

Jacoboson R.A. (JPL, USA): Title: Spacecraft Based Astrometry - Description and Archival Status (25 mn)

June 20: 17:00: Tour in Paris Observatory (under reservation)

# June 21: 9:30:2) Reduction, digitization, Gaia star catalogue–13 comm.

Mignard F. (OCA, Nice, France): Title: How good would Gaia positions be in the early 1900s. ? (25 mn)

Zacharias N. (USNO, Washington DC): Title: Star catalogs, photographic plates and errors for solar system astrometry improvements (25 mn)

De Cuyper J.P. (ROB, Brussels): Title: Digitizing and archiving photographic plates at ROB (25 mn)

Coffee break

Grosheva E.A., I.S. Izmailov, E.V. Khrutskaya (Pulkovo Observatory, Russia): Title: Mobile Device for Digitizing of photographic plates: the first results. (20 mn)

Khrutskaya E., A. Berezhnoy, S. Kalinin. (Pulkovo Observatory) Title: An old photographic plates in the Gaia era: archive plates Pulkovo observatory, digitization, results of astrometric reduction, error analysis. (25 mn)

Nedelcu D.A., P. Popescu, O. Badescu (Astronomical Institute, Bucharest):

Title: Preliminary reduction and analysis of the Bucharest Observatory photographic plates: Astrometry of asteroids (20 mn)

Li Shan-Na (IMCCE, Paris and Shanghai Obs.) Title: Improvement of the old reductions of irregular satellites using the first publications of the data (20 mn)

#### Lunch

#### June 21: 14:30-17:30

Vienne A. (IMCCE, Lille, Paris): Title: New solution for the geometric distorsion in astronomical images. (20 mn)

Robert, V. (IMCCE, Paris): Title: The level of accuracy for digitizers dedicated to astrometry (25 mn)

Shakht N.A., A.A.Afanas'eva, D.L. Gorshanov, E. V.Poliakow (Pulkovo Observatory, Russia):

Title: Long-term photographic observations for selected objects of Pulkovo program: measurements and results. (25 mn)

#### **Coffee break**

Tang Zheng Hong (Shanghai Observatory): Title: Work plan of digitizing Chinese photographic plates (25 mn)

Emelianov N. (Sternberg Astronomical Institute, Moscow, Russia) Title: The plate archive of the Sternberg Astronomical Institute (20 mn)

Berthier J.: Title: Skybot: a tool for data mining and selection of plates to be analyzed (25 mn)

#### June 21: 19:00: social buffet

# June 22: 9:30-12:30:3) Photographic archives and databases – 11 comm.

Ivantsov A., Hudkova L. (Nikolaev Observatory, Ukraine): Title: Archive of photographic plates in Nikolaev Observatory and some results obtained from them (25 mn)

Kulyk I. (MAO, Kyiv, Ukraine)

Title: Overview of the database of photographic observations of natural satellites obtained at the Main Astronomical Observatory of National Academy of Sciences of Ukraine during 1961-1990 (20 mn)

Murray C. (QMUL, London):

Title: The Status of the RGO Archive (20 mn)

#### **Coffee break**

Popescu P., L. Serbanescu, D.A. Nedelcu (Astronomical Institute, Bucharest): Title: A database for the Bucharest Observatory photographic plates archive (20 mn)

Bertin E. (IAP, Paris): Title: The DANCe project or how to recycle 15 years of archival wide-field data for kinematic studies. (20 mn)

Tsvetkova K. (Institute of Astronomy, Sofia, Bulgaria): Title: Catalogue of Wide-Field Plate Archives (20 mn)

Xi Xiaojin (National Time Service Center, Shaanxi, China) Title: The introduction of the natural satellites observation and orbit update by NTSC (20 mn)

Dourneau G. (Observatoire de Bordeaux, France), J.E. Arlot (IMCCE), J.F. Le Campion, C ; Ducourant (Observatoire de Bordeaux)

Title : Presentation of the Bordeaux astrophotographic old plates archive (1893 - 1996) (given by Arlot) (20 mn)

#### Lunch

#### June 22: 14:00-15:00

Kiselev A.A., Kiyaeva O.V., Romanenko L.G., Shakht N.A., Kalinichenko O.A., Vasilkova O.O., Vasileva T.A., Poliakow E.V. (Pulkovo Observatory, Russia): Title: Results of reduction of photographic plates taken with 26-inch refractor in Pulkovo observatory (given by Vasilkova) (20 mn)

Tsvetkov M. (Institute of Astronomy, Sofia, Bulgaria): Title: Wide-Field Plate Database (20 mn)

Souchay J. (SYRTE, Observatoire de Paris): Title: The MEGACLIP project (20 mn)

#### **Coffee break**

### June 22: 15:30-16:30 4) General discussion:

Topics:

international collaboration for digitizing plates criteria and parameters for digitization possible photometry on digitized plates databases for files of digitized plates selection of plates for a new reduction and other topics...