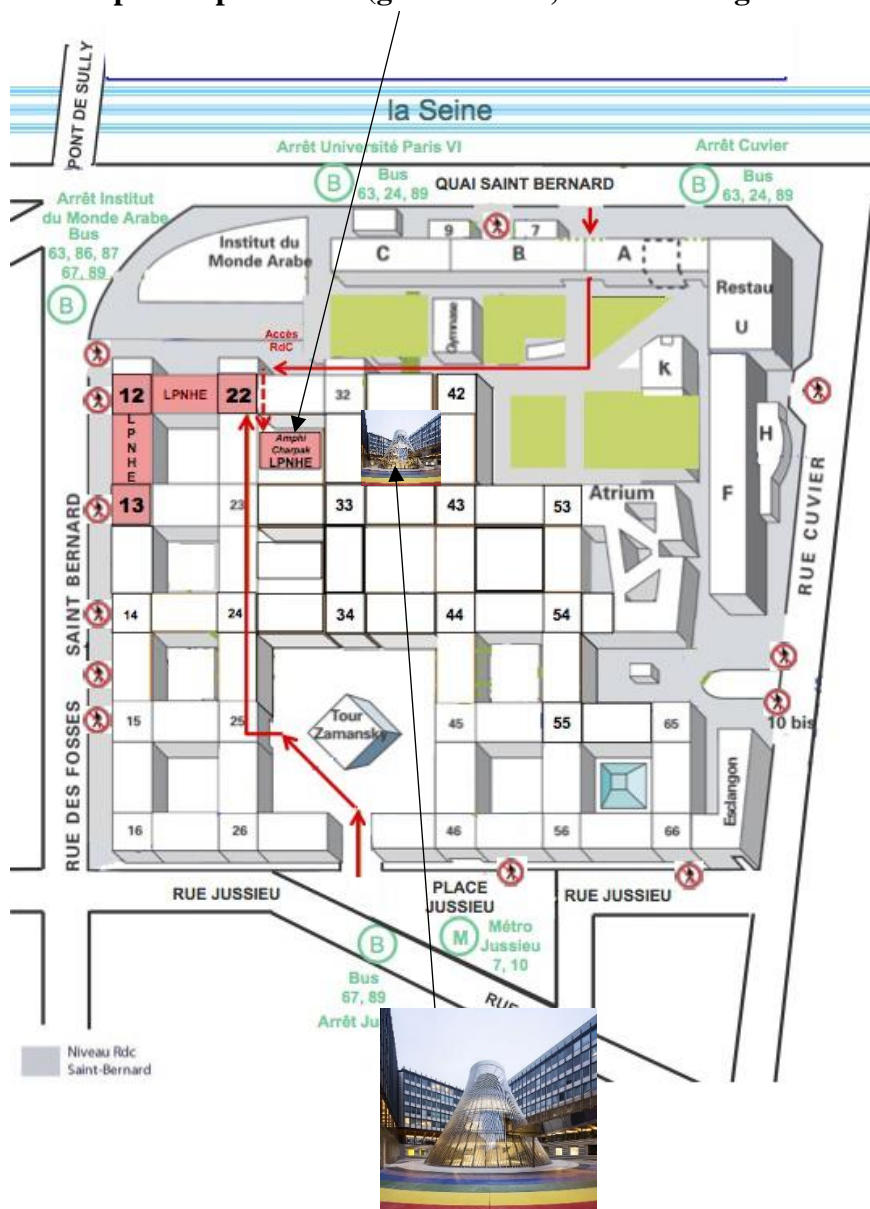




“Astrometry, Earth Rotation and Reference systems in the Gaia era”

Jussieu campus (Metro station « Jussieu » / line 7 & line 10)

Welcome / oral sessions in the Charpak amphitheatre (ground floor, access through Tower 22)



Coffee breaks / posters in the TIPI

<https://www.google.fr/maps/@48.8427989,2.354667,661a,35y,20.06h,35.98t/data=!3m1!1e3>

Programme including social events

Monday October 7 8h-12h30: OPENING & ORAL SESSION I

8h15-9h00	REGISTRATION - Charpak Amphitheatre
9h00- 9h15	OPENING (LOC, IAU,SOC: J. SOUCHAY, F. SEITZ, C. BIZOUARD)
SESSION I: GAIA mission	
Chair : David HOBBS (Lund Observatory, Sweden)	
9h15- 9h30	Lennart LINDEGREN: The bright reference frame of Gaia and VLBI observations of radio stars
9h30- 9h45	Federica SPOTO: Asteroid astrometry in the Gaia era
9h45-10h00	Paolo TANGA: Correcting archive asteroid astrometry by Gaia DR2
10h00-10h30	COFFEE BREAK (TIPI)
Chair: Felicitas ARIAS (Observatoire de Paris)	
10h30-10h45	Niu LIU, Z. ZHU, S. B. LAMBERT and J.-C. LIU: Is it possible to bring the Gaia-CRF2 into the VLBI data reduction?
10h45-11h00	Nathan SECREST, J. FROUARD: Quasar Selection Techniques going into the Gaia Era
11h00-11h30 invited	François MIGNARD: Space astrometry from Hipparcos to Gaia : a tribute to JEAN KOVALEVSKY
11h30-11h45	Goran DAMLJANOVIC, F. TARIS, M.D. JOVANOVIC: Short-term and long-term flux variability of extragalactic objects useful for the future Gaia CRF
11h45-12h00	V. ROBERT, J. DESMARS, Jean-Eudes ARLOT: The NAROO digitization centre
12h00-12h15	Brigitte ROCCA VOLMERANGE, L. GODINAUD: Continuous UV to far-IR Spectral Energy Distributions of Quasars
12h15-12h30	David HOBBS: Future space astrometry
12h30-14h00	LUNCH BREAK (any restaurant around the Jussieu campus)


Monday October 7 14h-17h30: ORAL SESSION II

SESSION II: Earth Rotation and Geodynamics I (observations and analysis) <i>100 YRS. CELEBRATION OF COMMISSION "ROTATION OF THE EARTH"</i>	
Chair: Jan VONDRAK (Astronomical Institute of the Czech Academy of Science)	
14h00-14h15	Florian SEITZ: Introduction to the Centennial Celebration of IAU Commission A2/19
14h15-14h45 invited	Zinovy MALKIN, A. BRZEZINSKI, N. CAPITAINE, V. DEHANT, R. GROSS, C. HUANG, D. MCCARTHY: overview of the 100 year history of IAU commission 19/A2.
14h45-15h00	Nicole CAPITAINE: the IAU Commission "Earth Rotation" and the IAU definition of the pole and UT1
15h00-15h15	Richard GROSS, A. BRZEZINSKI: The International Astronomical Union and Polar Motion
15h15-15h45	N. Capitaine, S. Klioner, Z. Malkin, J. Nastula: Tribute to B. GUINOT, B. KOLACZEK, V. ABALAKIN, V. VITYAZEV
15h45-16h15	COFFEE BREAK (TIPI)
Chair: Yaroslav YATSKIV (Main Astronomical Observatory of the Ukraine)	
16h15-16h30	Leonid PETROV, R. RAY: Combined analysis of free and forced nutations from VLBI group delays
16h30-16h45	Maria KARBON: Impact of the parameterisation of the source positions on the Free Core Nutation
16h45-17h00	Csilla FODOR, R. HEINKELMANN, S. MODIRI, S. RAUT, H. SCHUH and P. VARGA: Impact of major earthquakes on variations of Earth rotation
17h00-17h15	Severine ROSAT, N. GILLET, J.-P. BOY: On the possible detection of inter-annual deformation signal at the Earth's surface due to the fluid core dynamics
17h15-17h30	Nicholas STAMATAKOS, M. DAVIS, N. SHUMATE: IERS Rapid Service Prediction Center Products and Services: Improvements, Changes and Challenges, 2017 to 2019.
17h30-18h30	POSTER SESSION with focus on sessions I, II & V (TIPI)

Tuesday October 8 8h30-12h30h & 14h00-14h15: ORAL SESSION III

SESSION III: ICRF and astrogeodesy	
Chair : Maria KARBON (Observatoire de Paris)	
8h30-8h45	Patrick CHARLOT , C. GARCIA-MIRO, T. AN, B. sCAMPBELL, F.COLOMER, A. de WITT, P. EDWARDS, S. LAMBERT: Looking into the future of the radio reference frame with SKA
8h45-9h00	Marshall EUBANKS , L. PETROV: COMPASS: Applications of VLBI Beacons in Cislunar Space
9h00-9h10	Anatoliy IVANTSOV : Astronomical refraction in the Earth's ellipsoidal atmosphere
9h15-9h30	Chris JACOBS : Advancing the X/Ka-band Celestial Frame: Roadmap to the Future
9h30-9h45	Aletha de WITT , C. JACOBS, D. GORDON, H. KRASNA, K. LE BAIL, MCCALLUM, QUICK, SOJA, HORIUCHI: The K-Band Celestial Reference Frame Roadmap
10h00-10h30	PHOTO, COFFEE BREAK (TIPI)
Chair : Aletha de WITT (South African Radio Astronomy Observatory)	
10h30-10h45	Bryan DORLAND , N. SECREST, JOHNSON, N. ZACHARIAS, A. FEY, C. FINCH, T. FISCHER, L. HUNT, J. SOUCHAY: The Fundamental Reference AGN Monitoring Experiment (FRAMEx) collaboration
10h45-11h00	Megan JOHNSON : A volume-limited AGN Survey for the FRAMEx Project
11h00-11h15	Nijat MAMMADALIYEV , P.A. SCHREINER, S. GLASER, K. BALIDAKIS, K.H. NEUMAYER, J. M. ANDERSON, R. HEINKELMANN, R. KOENIG, H. SCHUH: On a possible contribution of VLBI to geocenter realization via satellites assessed by simulation study
11h15-11h30	Erricos PAVLIS , V. LUCERI, M. KUZMICZ-CIESLAK, and G. BIANCO: The ILRS Planned Contribution to ITRF2020
11h30-11h45	Victor PUENTE , M. FOLGUEIRA, E. AZCUE: Analysis of VLBI and GNSS ties in CONT campaigns
11h45-12h00	Jacques ROLAND , C. GATTANO, S. LAMBERT, F. TARIS: Structure and variability of quasars
12h00-12h15	Oleg TITOV , F. SHU: Observations of radio stars with geodetic VLBI
12h15-12h30	Norbert ZACHARIAS , C. FINCH: Deep South Telescope
12h30-14h00	LUNCH BREAK (any restaurant around the Jussieu campus)
14h00-14h15	Megan JOHNSON , L. HUNT, A. FEY, D. GORDON, and J. SPITZAK: VLBA imaging of ICRF3 sources

Tuesday October 8 14h15-17h30: ORAL SESSION IV

SESSION IV: Earth Rotation and Geodynamics II (models)	
Chair: Jose Manuel FERRANDIZ (University of Alicante VLBI Analysis Centre)	
14h15-14h45 invited	David SALSTEIN: Atmospheric angular momentum related to Earth rotation studies: history and modern developments
14h45-15h00	J. NASTULA and Justina ŚLIWIŃSKA: Prograde and retrograde terms of gravimetric polar motion excitation estimates from the newest GRACE gravity field models
15h00-15h15	Alberto ESCAPA, J. GETINO, J.M. FERRANDIZ, T. BAENAS: Second-order effects in IAU2000 nutation model
15h15-15h30	Jia-Cheng LIU, N. CAPITAINE: A possible improvement of IAU 2006 precession model
15h30-16h00	COFFEE BREAK / POSTER SESSION (TIPI)
Chair: Laura FERNANDEZ (Universidad Nacional de La Plata)	
16h00-16h15	Véronique DEHANT: Progress in understanding nutations
16h15-16h30	Elnaz NAGHIBI, S.A. KARABASOV: Excitation of the Earth's Chandler wobble by the North Atlantic double gyre
16h30-16h45	Nikolay SIDORENKOV, E. DIONIS, C. BIZOUARD, L. ZOTOV: Decade fluctuations in Earth's rotation as evidences of lithospheric drift over the asthenosphere
16h45-17h00	Leonid ZOTOV, C. BIZOUARD, N. SIDORENKOV: Chandler wobble variability
17h00-17h15	Jan VONDRAK, C. RON: Determination of FCN parameters from different VLBI solutions, considering geophysical excitations
17h15-17h30	José Manuel FERRANDIZ, R.S. GROSS, A. ESCAPA, J. GETINO, A. BRZEZINSKI, R. HEINKELMAN: Joint Working Group on Theory of Earth rotation and validation
17h30-18h30	POSTER SESSION with focus on sessions III, IV (TIPI)
19h30	<p>MEETING DINNER AT "LA COUPOLE" (102, boulevard de Montparnasse, 75014 PARIS)</p> 

Wednesday October 9 8h30-12h30: ORAL SESSION V

SESSION V: Space navigation and solar system dynamics	
Chair: Sergei KLIONER (Lohrmann Observatorium, TU Dresden)	
8h30-8h45	Agnès FIENGA , L. BERNUS, P. DERAM, A. Di RUSCIO, O. MINAZZOLI, J. LASKAR, M. GASTINEAU: The new planetary ephemerides INPOP19a and applications
8h45-9h00	James HILTON , S.G. STEWART: Implementation of Improved Magnitude Parameters for Solar System Planetary Ephemerides
9h00-9h15	Elena V. PITJEVA , N. P. PITJEV, D. A. PAVLOV: Estimates of changes of the gravitational constant G and the gravitational parameter of the Sun GM_{Sun} based on new data and observations of spacecraft and on updated the EPM2019 ephemeris
9h15-9h30	Nicolas RAMBAUX , V. VISWANATHAN, A. FIENGA, J. LASKAR, M. GASTINEAU: Dynamical model of lunar core and observational constraint from Lunar Laser Ranging
9h30-9h45	Pacôme DELVA , N. PUCHADES: A gravitational redshift test using eccentric Galileo satellites
9h45-10h00	Tomas MARTIN-MUR , J. LAZIO, S. BHASKARAN, R. PARK, C. JACOBS: Leveraging Gaia Data for Deep Space Navigation
10h00-10h30	COFFEE BREAK
Chair: Jean SOUCHAY (Observatoire de Paris)	
10h30-10h45	Dmitri PAVLOV : Solid body tides in the dynamical model of the Moon
10h45-11h00	Dan AKSIM , D. PAVLOV: On the Extension of Adams-Bashforth-Moulton for Numerical Integration of Delay Differential Equations and Application to the Moon's Orbit
11h00-11h15	Vladimir V. PASHKEVICH , A.N. VERSHKOV: Geodetic (Relativistic) rotation of the Mars satellites system
11h15-11h30	Sven ZSCHOCKE : On the post-linear metric of a solar system body
11h30-11h45	Pierre TEYSSANDIER : Unified approach of Shapiro and lensing effects in the field of an axisymmetric spinning body
11h45-12h00	CLOSING (LOC, SOC, Proceedings, announcement of next Journées)
12h30-14h00	MEETING COCKTAIL AT PARIS OBSERVATORY, SALLE CASSINI (77, avenue Denfert-Rochereau, 75014 Paris, Metro/RER B Denfert-Rochereau, Bus 38)



POSTERS (TIPI – 7/8/9 October)

Session I	
I.1	Eric HOEG: Gaia Successor with International Participation
I.2	Susanne LUNZ, R. HEINKELMANN, J. ANDERSON, M. JOHNSON, A. FEY, O. TITOV: Gaia-VLBI: phase-referencing continuum emission observations of optically bright stars with the VLBA (planned proposal)
I.3	Zinovy MALKIN: A new equal-area grid on the sphere
I.4	Francisco J. MARCO, MARTÍNEZ M-J., LÓPEZ J.A.: An example to analyse discrete vector fields on the sphere using quantitative and qualitative methods
Session II	
II.1	Yu-Ting CHENG, J.-C. LIU, and Z. ZHU: Analyses of celestial pole offsets with VLBI, LLR, and optical observations
II.2	Maria DAVIS, N. STAMATAKOS, C. BIZOUARD, S. LAMBERT, D. McCARTHY, Toward IERS Conventions 2022
II.3	Robert HEINKELMANN, S. MODIRI, S. BELDA, M. HOSEINI, Z. MALKIN, J.-M. FERRANDIZ, H. SCHUH: On the correlation of Celestial Pole Offsets and geomagnetic field variations (recent achievements)
II.4	Zinovy MALKIN, T. SOBOLEVA, N. MILLER: Outstanding Pulkovo latitude observers Lidia Kostina and Natalia Persiyaninova
II.5	Maria J. MARTINEZ, F.J. MARCO: A revision of ΔT and LOD values for the fifth, sixth and seventh centuries
II.6	Ibnu NURUL HUDA, C. BIZOUARD, S. LAMBERT, Y. Ziegler: Estimation of Earth rotation resonance parameters through VLBI analysis
II.7	Han Earl PARK, K.-M. ROH, S.-M. YOO, J. CHO: The Development of the GNSS-based Products Service System
II.8	Sergey PASYNOK, I. BEZMENOV, I. IGNATENKO, E. TCYBA: Operative EOP activities in VNIIFTRI
II.9	Shrishail RAUT: Effect of VLBI intensive sessions on daily and sub-daily ERP determined from CONT17 IVS data.
II.10	Jean-Yves RICHARD: Earth Orientation Parameters by GNSS & VLBI
II.11	Elena SKURIKHINA: Estimation of the accuracy of prediction of the Earth orientation parameters at the IAA data analysis center
II.12	Efim TCYBA, O. VOLKOVA: Determination of Earth Orientation Parameters by SLR in MMC SSTF FSUE VNIIFTRI
SESSION III	
III.1	Dan AKSIM, A. MELNIKOV, D. PAVLOV, S. KURDUBOV: On the Investigations of the Electron Density in the Solar Corona with Very Long Baseline Interferometry
III.2	Maria Eugenia GOMEZ, P. CHARLOT, R. CAMPBELL, M. KETTENIS, A. KEIMPEMA, Geodesy at K band with the European VLBI Network
III.3	Maria KARBON, C. GATTANO: Parametrization of the source coordinates and its astrophysical interpretation
III.4	Marisa NICKOLA: Improving HartRAO performance at K-Band
III.5	Victor PUENTE, E. AZCUE, S. GARCIA-ESPADA, Y. GARCIA-ESPADA, P.A. VAQUERO : Status of the geodetic VLBI analysis at the National Geographic Institute of Spain

III.6	Dimitri TROFIMOV , S.D. PETROV, Y.A. SEROV, I.V. CHEKUNOV, S.S. SMIRNOV, K.V. ZHELTOVA, O.A. TROSHICHEV: Total electron Content over Vostok Antarctic station
III.7	Aletha de WITT , C. JACOBS, NICKOLA, D. GORDON, H. KRASNA, K. LE BAIL, MCCALLUM, J.QUICK, SOJA, HORIUCHI: The K-Band celestial reference Frame : First imaging results
III.8	Yaroslav S. YATSKIV , O. O. KHODA: On the consistency between local ties and space geodesy estimates in the Simeiz-Katzively co-location site
SESSION IV	
IV.1	Christian BIZOUARD , Ibnu NURUL HUDA: Polar motion resonance parameter in the diurnal band
IV.2	Jungho CHO , S-H. NA, K-W. SEO, K-H. YOUM, W. SHEN: The annual wobble excitation due to the seasonal atmospheric loading on continents
IV.3	Robert DILL , H. DOBSLAW: The importance of seasonal sea-level variations from geophysical models and satellite gravimetry for excitation of length-of-day
IV.4	Laura Isabel FERNANDEZ , S. BÖHM: Influence of the 2015-2016 ENSO event on length of day variations
IV.5	Marta FOLGUEIRA , J. SOUCHAY and D. GÓMEZ: 30 years-evolution in the modelling of the rotation of the rigid Earth: new effects and developments
IV.6	Sébastien LAMBERT : Atmospheric excitation and torques over the 20th century: how was driven the Chandler wobble?
IV.7	Vadim PEREPELKIN , S. KRYLOV, A. FILIPPOVA: Dynamic effects of the spatial movement of the Earth-moon system in the Earth's pole oscillation
IV.8	Yavor CHAPANOV , Cyril RON, J. VONDRAK: Chandler period variations due to solar activity
IV.9	Malgorzata WINSKA : Improved geodetic-hydrological residual time series constrained by polar motion observations and geophysical models
IV.10	Sigrid BÖHM and D. SALSTEIN: Next generation of coupled climate models and the predicted atmospheric excitation of length of day
SESSION V	
V.1	Suzanne DEBARBAT : Le système solaire selon Cassini I
V.2	A.A. CHICHARRO, Victor PUENTE and M. FOLGUEIRA and J. SOUCHAY: Influence on Earth satellites due to the close approach of 99942 Apophis
V.3	S.DOMENECH and Marta FOLGUEIRA : Rotation of Mars and Venus: influence of the zonal harmonic J3
V.4	Serguei KUDRYATSEV : Updated harmonic development of tide-generating potential of Mars
V.5	Pavel MOVSESIAN , S. PETROV, D. TROFIMOV, I. CHEKUNOV: Analysis and normalization of GNSS onboard clock
V.6	Vladimir V. PASHKEVICH , A.V.MELNIKOV, A.N.VERSHKOV and G.M.KARELIN: Chaos and relativistic effects in the rotational dynamics of minor planetary satellites