2025 Gemini database of the Pro-Am collaborations

Midavaine T.[(1) (2) (3)]

(1) : Club Eclipse
(2) : Société astronomique de France (SAF)
(3) : Commission des Techniques en Astronomie Amateur (CT2A)

Journées de la SF2A Atelier S06 Gemini, 4 juillet 2025 Toulouse

Topics	Discoveries	Monitoring	Events	Metrologies	Astrometry	Photometry	Polarisation	Spectroscopy	Timing	Data mining	Castor	Pollux	Organisation	web site	referee e-mail	Dedicated conference or workshop	How many
Uni	min magnitude				arcsec	Accuracy	Ratio	Resolution	seconde	Internet database	Amateur referee	Professionnal ref	Association				amateurs
Meteors		Vigie-Ciel	NenuFAR									Brigitte Zanda	Vigie-Ciel	Vigie-Ciel.org	Brigitte Zanda <Brigitte.ZANDA	Commission des météores SAF	
Bolids	-4	Fripon	Fragmentation	Orbit, Impact	60				1		Karl Antier	Francois Colas	REFORME	https://www.fripon.org/	Colas Francois <Francois.Col	International Meteor Conference	
Shooting stars											Karl Antier			www.imo.net	karl Antier <karl.antier@protonmail.com>		
Shooting stars showers	1	Global Meteo	Perseides 20	DFR Radian	240				60		Karl Antier	Jérémy Vaubaillon	IMO	http://www.reforme-meteor.net/		International Meteor Conference	
Earth impact craters										Google Earth		David Baratoux					
Northern lights														www.spaceweather.com	wagner.d@uni-jena.de		
Night Glow																	
Sprites																	
Cosmic rays																	
The Moon			ALP	Grazing Occultations			0.1	10	0.1	Moon zoo			ALPO, IOTA	users.aber.ac/atc/lip/lip.htm			
Impacts on the Moon			flash								Arnaud Leroy	Sylvain Bouley	IMCCE	http://uranoscope.free.fr			
Lumiere Cendree								10				Luc Arnold					
Moon Eclipses			LUNAE-Volc											https://gemini.obspm.fr/20241126-lunae/			
Zodiacal light										Stardust							
Planets		Weather	Stoma, Occultation					100	1	PVOL - Planetary Virtual Observatory and Laboratory (eb		SAF commission	ALPO	www.astrosurf.com/planetessaf/	delcroix.marc@free.fr	European Planetary Science Congress	
Venus		Akatsuki									Christophe Pellier	Peralta	Akatsuki		coordinatewithakatsuki@gmai	European Planetary Science Congress	
Mars		Weather	Storm, clouds	Aurorae						planet four	Jean-Luc Dauvergne	Jean Lilensten	ESMO	https://gemini.obspm.fr/author/apiprometradition/	jean.lilensten@univgrenoble-a	European Planetary Science Congress	
Jupiter		Junocam	Impacts							missionjuno.swri.edu	Marc Delcroix	Francois Colas	SAF	www.missionjuno.swri.edu/junocam/	delcroix.marc@free.fr	Commission des observations planétaires SAF	
Jupiter		Weather	Atmosphere	monitoring							Christophe Pellier	Kévin Baillié	Jupos, IOPW	https://www.imcce.fr/recherche/campagnes-observations/impac	kevin.baillie@observatoiredepa	European Planetary Science Congress	
Saturn		Weather	Storm								Marc Delcroix		SAF, IOPW	http://pvol2.ehu.eus/pvol2/	delcroix.marc@free.fr	European Planetary Science Congress	
Uranus, Neptune		Weather	Storm								Marc Delcroix		SAF, IOPW	http://pvol2.ehu.eus/pvol2/	delcroix.marc@free.fr	European Planetary Science Congress	
Impacts on giant planets		Impact							1		Marc Delcroix	Ricardo Hueso	Impact Team	http://www.astrosurf.com/planetessaf/doc/project_detect.php	delcroix.marc@free.fr	European Planetary Science Congress	
Planet Satellites	21		Occultation	Phemu Phes	0.04	0.1			0.1		Michael Irzyk	Vincent Robert	IMCCE	https://proam-gemini.fr/les-phenomenes-mutuels-de-saturne-20	michael.irzyk@laposte.net <michael.irzyk@laposte.net>		
Ganymede		Ice detection									Marc Delcroix	Olivier Poch		https://gemini.obspm.fr/20241020-give-ganymede/			
Asteroids	18			Gaia PUN SSO						The Daily Minor Planet | Zooniverse -	People-powered res	William Thuillot		https://gaiafunsso.imcce.fr/	William Thuillot <william.thuillot@obspm.fr>		
Asteroids (orbits)	19	Loc	Occultation		0.2	0.1			0.1	http://www.asteroidzoo.org/		Jerome Berthier	MPC	www.minorplanetcenter.net/iau/	mpc@cfa.harvard.edu	http://m1p.fr/sof	
Asteroids (bodies)		Rotation mo	Occultation			0.06		10	0.1	Asteroids@home		Benoit Carry	IOTA-ES	https://iota-es.de/		ESOP	1000
Asteroids long periods		CdR		18		0.1					Stéphane Fauvaud	Raoul Behrend		http://hebe.astro.amu.edu.pl	sfauvaud@mail.com	https://mpbulletin.org/	
Asteroide Satellites	CdR ou Occ	CdR	Occultation			0.01			0.1		Thomas Mollier	Raoul Behrend	CdR-CdL	http://obs.www.unige.ch/-behrend/page_cou.html	raoul.behrend@unige.ch		
Binary Asteroides			GaiaMOONS									Raphael Lallemand		https://gaiamoons.imcce.fr/mainevent	raphael.lallemand@obspm.fr		
Earth Grazer Asteroids NEA	19		NEaTS	Orbite, Impact				10	0.1	orbit@home	Arnaud Leroy	Paolo Tanga	EURONEAR	http://www.minorplanetcenter.org/iau/NEO/TheNEOPage.html		https://lagrange.oca.eu/fr/home-across	
Troyens			LUCY								Arnaud Leroy	Marc Buie		http://lucy.swri.edu/			
Trans Neptunien Objects	20		Lucky Star		0.2	0.2		10	10			Bruno Sicardy	LESIA	http://lesia.obspm.fr/lucky-star/predictions/	Bruno.Sicardy@obspm.fr		
Kuiper Objects				Myosotis				10			Bernard Christophe	Francoise Roque					
Rings on SSO												Kevin Baillié			kevin.baillie@obspm.fr		
Planet 9	24									Backyard Worlds: Planet 9							
Comets	14		Burst, Fragmentation		0.2	0.2		100	1	Soho		Nicolas Biver	SAF	https://lesia.obspm.fr/comets/index.php	cbatiau@eps.harvard.edu	Commission Comètes SAF	
ETP Tchouri			CdR								David Romeuf						
103P/Hartley		en Rc	EPOXI									Giannantonio Milani	CARA				
Solar System Objects	20		Gaia-FUN-SSO		1	0.2						William Thuillot	IMCCE	https://gaiafunsso.imcce.fr/index.php	thuillot@imcce.fr		
Sun		Le Soleil Brille à Meudon	SolAP-SolEx					SolEx		https://bass2000.obspm.fr/home.php		Guillaume Aulanier		https://gemini.obspm.fr/20221121-solap/	sdap.op@obspm.fr		
Sun Spots		Nore Wolf		SolarOrbiter			0.05	1000	0.1	http://solardatabase.free.fr/sol.php	Didier Fave	Miho Janvier	GEFOS	http://solardatabase.free.fr		Commission du Soleil SAF	
Sun Protuberances			Eruption, Eclo	SUMSO			0.05	1000	0.1	Solar stormwatch	Franck Vaissière	Frédéric Pitout	Observateurs	www.climso.fr		liste astrosoleil	
Sun Corona			Eclipse Totale	08/04/2024	0.1		0.001			Soho	Xavier Jubier				xjubier@free.fr		
Stars			Gaia alerts	Spectral class				10		http://cdsportal.u-strasbg.fr/		Paolo Tanga		http://gsaweb.ast.cam.ac.uk/alerts/			
Star records				Speed	0.1	0.1		10	10000	DASCH		CDS	D. Gray	modèle des atmosphères			
Neighbour Stars		Hipc		Cosmic Dance						http://www.project-dance.com/	Yannic Delisle	Céline Reylé		https://astrophy.u-bordeaux.fr?page_id=47			
Giant Stars											Yael Nazé				ynaze@uliege.be		
Betelgeuse			Occultation Leona 12-12-23								Arnaud Leroy	Miguel Montarges		https://proam-gemini.fr/occultation-de-betelgeuse-quune-seule-bis-dans-une-vie/			
Next Super Nova candidates		SNEWS	SNEWS 2.0								Bert Pablo	Dan Milisavljevic	AAVSO	https://snews2.org/			
Be stars, Eruptives	12		Outburst			0.1		1000	10000	BeSS		Coralie Neiner	ARAS	http://basebe.obspm.fr/basebe		Stages Spectro OHP Aude	
Actives OB stars											Christian Buil		ARAS	www.astrosurf.com/buil/index.htm			
Wolf-Rayet stars	NewWR										Lionel Mulato	Jaroslav Merc	2SPOT				
Sun sisters	9																
Young stars		YSO									Michael Poxon	Dirk Froebrich	AAVSO				
Variable stars	10	CdL				0.1			100	base de donnée Gaia étoiles doubles	Dominique Naillon	Dominique Proust	AFOEV	http://astro.u-strasbg.fr/afoev	afoev@astro.u-strasbg.fr	International Meeting on Variable Stars	
Cepheids	0		Maxima puls	Spectres				10000	300-3600	aavso.org/vsx		Denis Gillet, Philip	GRRR	http://www.aavso.org/vsx/index.php?view=search.top	Philippe.Mathias@irap.omp.eu		
RR Lyrae	14	LPRS	Maxima puls			0.01			300-900		Pierre Traverse	Jean-Francois Le B	GEOS	http://rr-lyr.irap.omp.eu/	jean-francois.leborgne@irap.o	Workshop annuel à l'OHP	
RR Lyrae shock waves				Spectres				1000			Benjamin Mauclaire	Denis Gillet			bma.oea@gmail.com		
Binaire Delta Scuti	12.5	Ambio|EA				0.1					Hervé Lerat			https://gemini.obspm.fr/20240916-andoea/	herve.lerat@saf-astronomie.fr		
New variable class	Alertes Gaia					0.001			100	☐ http://gsaweb.ast.cam.ac.uk/alerts/home		Denis Gillet	GRE	Pulsating star		OHP	
Disappearing stars		Vasco												https://ui.adsabs.harvard.edu/abs/2020arXiv200910813V/abstract			
Double stars											Patrick Wuillaert			https://saf-astronomie.fr/etoiles-doubles/		Commission des étoiles doubles SAF	
Double stars	11		OLED		0.1	0.1		10	100000	base de donnée Gaia étoiles variables	Laurent Philippe	Enrique Velasco	WDS USNO	http://ad.usno.navy.mil/wds	aplaure_astro@yahoo.fr	Commission des étoiles doubles SAF	
Spectroscopic binaries	8			BASE				1000			Thomas Mollier	Jean-Louis Halbwachs		https://gemini.obspm.fr/20231207-base/	thomas.mollier@saf-astronomie.fr		
Eclipsing binaries EA EB E	12	BSN				0.01	0.1	10000	1000	VSX	Patrick Wuillaert	Atila Poro	Commission	Gerry Samolyk	astro.laucorp@orange.fr		
Binary system VV Cep				VV Cephei					15000		Alain Maetz	Ernesto Pollmann	AAVSO	http://www.astrospectroscopy.de	ernst-pollmann@t-online.de	Active Spectroscopy in Astronomy	
Cataclismic stars												Etienne Morelle		http://cbastro.org			
Symbiotic stars											Francois Teyssier	Jaroslav Merc	AAVSO		francois.teyssier@dbmail.com		
Pulsars	10					0.1			0.01	einstein@home		Fabrice Mottez		http://einstein.phys.uwm.edu/			
Galactic Black Holes												Lukasz	BH-TOM2				
Stellar disks													satellite WIS	http://www.diskdetective.org			
Exo-Planets		Radial speed	ExoClock ETD			0.01		10000	10	planethunters.org	Anael Wunsche	Alexandre Santerne	transitsearch	https://www.exoclock.space/			300
Exo-Planets		TTV	ETD										BAA	http://var2.astro.cz/ETD	http://brucegary.net	http://var2.astro.cz/ETD/	
Super-Earths										https://exoplanetarchive.ipac.caltech.edu/		Jean-Philippe Beaulieu		http://exoplanet.eu			
Exoplanet Satellites						0.01			10			Jean Schneider, David Kipping		https://www.exoclock.space/project			
Exo- Comets		KIC 3542116 (Lyra), WD1145+017, ZTF J0139+5245, WD1425+540										Flavien KieferSebastian Zieba					
Exoplanet Rings				1SWASP J1407b								Matthew Kenworthy	AAVSO	Alert Notice 462: Monitoring of J1407 for next extrasolar ring system transit | aavso			
Extraterrestrial Life										seti@home			SETI	seti@home			
Galactic transients			RAPAS	BH-TOM													100
Milky Way Novae	6					0.05			10000		Francois Teyssier	Steve Shore	Université de	http://www.cbat.eps.harvard.edu/index.html	cbatiau@eps.harvard.edu		
Milky Way Super Novae	0	ASAS-SN		RAPAS 2023							Emmanuel Conseil			http://www.cfa.harvard.edu/iau/cbat.html	skypub.com/supernovarace		
SN Remnents					1		0.1	1000	100000			Agnès Acker					
Planetary Nebulae	16			Central star			0.1	600		HASH Database	Pascal Le Dû	Quentin Parker	Deep Sky H	http://planetarynebulae.net/	pascal.le.du@shom.fr	https://apn7.com/	
Wolf-Rayet Nebulae										Digital Sky Survey		Agnès Acker			agnes.acker@astro.unistra.fr		
Nebulae								1000									
Cosmic Bubbles										Milky way project				www.milkywayproject.org			
Clusters and asterisms	9	HOYS			3	0.01		10		Milky way project	JB Marquette	Aleks Scholz		https://hoys.space/			
Globular clusters																	
Milky Way										MilkyWay@Home				http://milkyway.cs.rpi.edu/milkyway/			
Extragalactic transients			RAPAS	KNC							Thierry Midavaine	Michel Dennefeld		https://gemini.obspm.fr/20220101-rapas/			
Dwarf galaxies										SIGNALS and MANGA Data		Aashiya Anitha Shaji					
Andromed galaxy	Novae									PHAT		Anne-Laure Melchior		http://www.andromedaproject.org/			
Novae in neighbour galaxi	16	photometrie				0.1	0.1			http://www.rochesterastronomy.org/n	Emmanuel Conseil			http://econseil.blogspot.com/	econseil@gmail.com		
Star clusters in neighbour galaxies										http://www.projectstardate.org/							
Galaxies		JAFAR classification								Galaxy zoo 3D		francois.taris@obspm.fr		www.galaxyzoo.org			
Active galactic nucleus				AGN variable						www._zooniverse.org							
Green Peas										www._zooniverse.org							
Galaxies with shell												Duilia de Mello		https://communications.catholic.edu/news/2021/01/galaxies.html			
galaxies et structures		DIANA									Sébastien Chauleté			https://gemini.obspm.fr/20250302-d-i-a-n-a/	equipe.diana.projet@gmail.com		
Micro Quasars												Katherine Blundell	Oxford				
Quasars	15		Burst			0.1		10	10000			Jean Schneider	Surveillance du Quasar Triple				
Supernovae	13 - 21	photometrie	Gaia Alerts		0.1	0.1		10	10000	www.rochesterastronomy.org/snimag	Emmanuel Conseil	Michel Dennefeld	TNS	https://wis-tns.weizmann.ac.il/	econseil@gmail.com	SNAude	
X Sources	CLAXSON																
Gamma Ray Burst	18	contreparti	SVOM			0.1			10000	Astro-COLIBRI		Bertrand Cordier	CEA	http://gcn.gsfc.nasa.gov			
Neutron stars	17	contreparti	eXTiC GRANDMA	O4				2		KiloNovaCatcher	Arnaud Leroy	Damien Turpin	IN2P3	http://kilonovacatcher.in2p3.fr/			200
Extra galactic Stellar black holes			GW event									Sarah Antier					
Galaxy clusters	22			Mesure de z		0.5		10				Vincent Boucher			aapeteam@protonmail.com		
Extragalactic filaments												David Valls Gabaud	GEPI OBSPM				
Neutrinos event counter part												Thierry Prader	IN2P3				
Gravitationnal lenses										space_warps		Alain Klotz		https://www.zooniverse.org/project/space_warps			
Other objects or transients																	
Dark maters												David Martinez-Delgado	Max Plack Institute				
Dark Energy																	
Cosmology		COB				0.1		10		cosmology@home	Jean-Pierre Martin	Dominique Proust	SAF	http://www-cosmosaf.iap.fr/	dominique.proust@obspm.fr	SAF Commission Cosmologie	

2025 Gemini Pro-Am database

This is the AK version of the Gemini Pro-Am database integrated in June 2025 for this SF2A SAF Pro-Am workshop.
IAU Working Group 330 Professional Amateur Relations in Astronomy organised monthly meetings with 4 sub working groups. The purpose is to develop Professional Amateur Research Collaborations (PARC) organisation and web page. In sub working group 2, dedicated to Amateur Engagement, I shared this table in an English version in addition to the original french one. The purpose is to propose to use this table to allow to build in each country in their native language, a similar table fitted to the backgrounds and activities of Pro Am communities.

This year several updates have been introduced with new collaborations and new web site links, pconing from the new Gemini web portal which moved to Paris Observatory.

Gemini Workshops

- Since 2019 in France : Gemini SF2A-SAF partnership organise a workshop during SF2A annual congress, Gemini award, Photometric School
  - 2018 Bordeaux
  - 2019 Nice,
  - 2021 Paris Zoom,
  - 2022 Besançon,
  - 2023 Strasbourg
  - 2024 Marseille
  - 2025 Toulouse
  - 2026 ...

References and contact

- Th. Midavaine, F. Herpin Status of the Amateur Professional Collaborations April 13th 2019 IAU 100 years Bruxelles Amateur Day Proceedings
- T. Midavaine : The 2024 ProAm Gemini table. Proceedings Journées de la SF2A 2024

Thanks to contact me to update the line you are involved in for the next Version AL of the Gemini database to be released in 2026 or to introduce a new ProAm collaboration project.

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