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## IPGP - Institut de physique du globe de Paris

Rapport Hcéres

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REPORT ON THE RESEARCH UNIT:  
Institut de Physique du Globe de Paris (IPGP)

UNDER THE SUPERVISION OF THE  
FOLLOWING INSTITUTIONS AND  
RESEARCH BODIES:

Institut de Physique du Globe de Paris – IPGP

Centre national de la recherche scientifique -  
CNRS

Université Paris Diderot

Université de La Réunion

Institut national de l'information géographique  
et forestière - IGN

**ÉVALUATION CAMPAIGN 2017-2018**  
GROUP D



In the name of Hcéres<sup>1</sup>:

Michel Cosnard, President

In the name of the experts committee<sup>2</sup>:

Stéphane Guillot, Chairman of the  
committee

Under the decree No.2014-1365 dated 14 November 2014,

<sup>1</sup> The president of Hcéres "countersigns the evaluation reports set up by the experts committees and signed by their chairman." (Article 8, paragraph 5);

<sup>2</sup> The evaluation reports "are signed by the chairman of the experts committee". (Article 11, paragraph 2).

This report is the sole result of the unit's evaluation by the expert committee, the composition of which is specified below. The assessments contained herein are the expression of an independent and collegial reviewing by the committee.

## UNIT PRESENTATION

<b>Unit name:</b>	Institut de Physique du Globe de Paris
<b>Unit acronym:</b>	IPGP
<b>Requested label:</b>	UMR
<b>Application type:</b>	Renewal
<b>Current number:</b>	7154
<b>Head of the unit (2017-2018):</b>	Mr Marc CHAUSSIDON
<b>Project leader (2019-2023):</b>	Mr Marc CHAUSSIDON

**Number of teams or themes:** 16

## COMMITTEE MEMBERS

**Chair:** Mr Stéphane GUILLOT, CNRS, university of Grenoble

**Experts:**

- Mr Étienne DELOULE, CRPG, Nancy (representative of CoNRS)
- Mr Niels HOVIUS, GFZ Postdam, Germany
- Ms Hélène LEAU, IR CNRS (supporting personnel)
- Ms Alessia MAGGI, CNAP, university of Strasbourg (representative of CNAP)
- Mr Nicolas MANGOLD, university of Nantes
- Mr François MARTIN, university of Toulouse (representative of CNU)
- Mr Jonathan MOUND, university of Leeds, England
- Mr Augusto NERI, INGV Roma, Italy
- Ms Daniela PANTOSTI, INGV Roma, Italy
- Mr Jérôme ROSE, CNRS, university of Aix-en-Provence

**HCERES scientific officer:**

Mr Christian SUE

**Representatives of supervising institutions and bodies:**

Mr Éric HUMLER, INSU-CNRS

Ms Mioara MANDEA, CNES

Mr Laurent MICHON, université de la Réunion

Mr Nicolas PAPANODITIS, IGN

Ms Sylvie ROUSSET, université Paris Diderot

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The IPGP was created as an institute in 1921 and became a “Grand Établissement” (GE) in 1990. The first geophysical activities started in 1883 with the development of the measurement and monitoring of the Earth’s magnetic field in St-Maur-des-Fossés. The UMR 7154 (Unité Mixte de Recherche) was created in 2006 as a result of the merger of 7 smaller pre-existing UMRs. The UMR is housed on two campuses. The Cuvier campus (1 rue Jussieu, 75005 Paris) belongs to the “grand établissement” IPGP, hosts 14 of the 16 research teams and all of the master teaching. The Paris Rive Gauche (PRG) campus (Lamark building, 35 rue Hélène Brion, 75013 Paris) belongs to the university Paris Diderot (P7), includes 2 research groups, and hosts all of the undergraduate teaching activities of UFR STEP (Unité de Formation et de Recherche Sciences de la Terre de l’Environnement et des Planètes) of P7.

### MANAGEMENT TEAM

The UMR 7154 IPGP is organized under the umbrella of the GE IPGP and contains all of the research activities supported by the GE IPGP. The UMR is jointly operated with the GE IPGP and with the “Unité Mixte de Service” (UMS) 3454 that groups the 5 observatories run by the GE IPGP. There is one director and one general secretary for the GE, the UMR and the UMS. The five deputy directors of the GE are members of the UMR and their work benefits the UMR. Director: Mr Marc CHAUSSIDON; deputy director in charge of industrial relations: Mr Marc BENEDETTI; deputy director in charge of research and space activities: Mr Gauthier HULOT; deputy director in charge of the observatories: Ms Anne LE FRIANT; deputy director in charge of studies division: Mr François MÉTIVIER; deputy director in charge of international relations: Mr Jean-Paul MONTAGNER; general director of services: Mr Antoine CHARLOT.

### HCERES NOMENCLATURE

ST3: earth and space sciences.

### SCIENTIFIC DOMAIN

The UMR 7154 (IPGP) provides the structure for all of the research activities in Earth, environment and planetary sciences supported by the “grand établissement de recherche et d’enseignement supérieur” (GE) “Institut de Physique du Globe de Paris – IPGP”. The GE IPGP is one of the very few institutions worldwide associating Earth, geophysical and geochemical observatories and intensive research. GE IPGP is strongly involved in all fields of Earth science (including geobiology and planetary sciences) at all scales in time and space. GE IPGP undertakes Earth observation (on continents, at sea and from space) of seismic, tectonic, magnetic and volcanic activities, and of erosion and the critical zone. It ensures permanent observations of various natural phenomena in the French overseas territories and abroad, and makes temporary observations on land, at sea and in space; these observations can contribute to the understanding and mitigation of seismic and volcanic hazards. IPGP provides the national and international community with services related to the research activity of the establishment.

For the next 5 years, the 16 teams will be organized around 4 themes (Earth and Planetary Interiors, Natural Hazards, Earth System Science, Origins). Research teams are Environmental Biogeochemistry, CAGE (Cosmochimie, astophysique et géophysique expérimentale), Geological Fluid Dynamics, Geochemistry of the External Earth, Stable Isotope Geochemistry, Geomagnetism, Geomaterials, Geomicrobiology, Marine Geosciences, Gravity and Space Geodesy, Paleomagnetism, Physics of Natural Site, Planetary and Space Science, Seismology, Volcanic System, Tectonic.

## UNIT WORKFORCE

Unit workforce	Number 30/06/2017	Number 01/01/2019
<b>Permanent staff</b>		
Full professors and similar positions	41	41
Assistant professors and similar positions	49	49
Full time research directors (Directeurs de recherche) and similar positions	17	24
Full time research associates (Chargés de recherche) and similar positions	18	21
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	0	0
High school teachers	0	0
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	115	119
<b>TOTAL permanent staff</b>	<b>240</b>	<b>254</b>
<b>Non-permanent staff</b>		
Non-permanent professors and associate professors, including emeritus	12	
Non-permanent full time scientists, including emeritus, post-docs	35	
Non-permanent supporting personnel	55	
PhD Students	93	
<b>TOTAL non-permanent staff</b>	<b>195</b>	
<b>TOTAL unit</b>	<b>435</b>	

## GLOBAL ASSESSMENT OF THE UNIT

IPGP is a flagship research unit in the field of Earth and Planetary Sciences, at the national and international levels. In recent years, it has greatly reinforced its field of expertise (of the Earth internal to the environment and solar system). The research carried out within the IPGP is generally based on a multidisciplinary, by using the most powerful tools and methods coming from the physics, chemistry, geology, mathematics and computer science.

IPGP beneficiates of numerous experimental equipments and instruments for chemical characterization and physics of geological objects. If the quantitative models are based on theoretical developments, the data experimental and analytical work and numerical intensive calculations are the backbone of many studies. The field study also plays an important role in several teams.

The IPGP presents a very positive general assessment with a scientific production of very high quality, illustrated by a large number of publications in the most prestigious multidisciplinary journals (Nature, Science, Nature Geoscience, Proceedings of the National Academy of Sciences ...) and international distinctions.

His project for the next contract is relevant, realistic and in line with its areas of expertise.



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