

## COMMISSION F2

## EXOPLANETS AND THE SOLAR SYSTEM

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### TRIENNIAL REPORT 2015-2018

#### 1. Introduction

The Commission C.F2 "Exoplanets and the Solar System" results from the merging of the previous commissions C16 (*physical study of planets and satellites*) and C53 (*extrasolar planets*).

Although extrasolar planets are detected and observed with different instruments and different techniques than the planets of the solar system, the physical properties of these objects have many aspects in common. The Commission promotes exchanges and interactions between the two communities.

In summary, the scientific activities and areas of expertise of the Commission members include:

- The search and characterization of exoplanets and their satellites,
- The investigation of solar system planets and their satellites,
- The observations and modeling related to the origin of the planets and planetary systems,
- The modeling of planetary atmospheres, surfaces and interiors,
- The laboratory work directly in support of such observational and theoretical investigations.

Commission F2 currently has 357 members.

#### 2. Activity

##### 2.1. IAU symposia and focused discussions

The Organizing Committee of Commission C.F2 assessed proposals requesting the support of the C.F2 for IAU symposia and focused discussions. In end of 2016, the assessed proposals was for the meetings to be organized at the 2018 General Assembly in Vienna. In 2017 the OC assessed proposals for meeting, which will take place in the year 2019.

The proposals have been reviewed for their quality and their content, in particular considering the place given to the themes of the commission. A few proposals have not been supported when they have been considered to be not enough focused on key issues in the

field of exoplanets and solar system, and/or when the proposers have been requested to modify the content of their proposals and have not been able to do it in due time.

Most of the proposals submitted for the support have been considered to be of high quality and in agreement with the objectives of the commission.

*2.2. Consultation of the whole commission membership*

The Organizing Committee of C.F2 had a discussion in depth on the issues related to the nomenclature, the definition of an exoplanet, and the credits of discoveries. Following this discussion, it has been decided to make a wide consultation of the community on these difficult questions and then to provide recommendations for the IAU.

The consultation questionnaire is finalized and will be sent to all members of the commission in a near future. The results of this wide consultation will be presented at the General Assembly in Vienna.

Alain Lecavelier des Etangs  
*President of the Commission*