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**Committee on the Peaceful  
Uses of Outer Space****Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space****Letter dated 10 November 2017 from the Legal Services  
Department of the European Space Agency addressed to the  
Secretary-General**

In conformity with the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), the rights and obligations of which the European Space Agency (ESA) has declared its acceptance of, the Agency has the honour to transmit information on the Sentinel-5P satellite, which was launched into Earth orbit on 13 October 2017 (see annex). The space object was duly registered in the ESA space object registry upon its launch, in accordance with the Convention and pursuant to respective bilateral arrangements. Sentinel-5P's final orbital positioning manoeuvre occurred on 7 November 2017.

*(Signed)*

**Marco Ferrazzani**  
ESA Legal Counsel and  
Head of the Legal Services Department



## Annex

### Registration data on a space object launched by the European Space Agency\*

#### Sentinel-5P

#### Information provided in conformity with the Convention on Registration of

#### Objects Launched into Outer Space

Committee on Space Research international designator	2017-064A
Name of space object	Sentinel-5 Precursor (Sentinel-5P)
State of registry	European Space Agency (ESA)
Date and territory or location of launch	13 October 2017 at 0927 hours, 44 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	101.4 minutes
Inclination	98.71 degrees
Apogee	827 kilometres
Perigee	825 kilometres
General function of space object	<p>The Sentinel-5P satellite mission forms part of Europe's Copernicus programme. It is the first Copernicus mission dedicated to monitoring the atmosphere. Sentinel-5P makes use of a Tropomi spectrometer to map on a daily basis trace gases in the global atmosphere that affect the air, such as nitrogen dioxide, ozone, formaldehyde, sulphur dioxide, methane, carbon monoxide and aerosols. Sentinel-5P detects pollution over cities and contributes to services such as volcanic ash monitoring for aviation safety and services that warn of high levels of ultraviolet radiation.</p> <p>Pursuant to the Agreement between the European Union, represented by the European Commission, and the European Space Agency on the Implementation of the Copernicus Programme, including the Transfer of Ownership of the Sentinels (Copernicus Agreement), which entered into force on 28 October 2014, ownership of Sentinel-5P was transferred to the European Union at the moment of lift-off of the satellite's launch vehicle.</p>

#### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner/operator	Owner: European Union Operator: European Space Agency
Launch vehicle	Rokot-KM

\* The information was submitted using the form prepared pursuant to General Assembly resolution [62/101](#) and has been reformatted by the Secretariat.