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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

Note verbale dated 22 June 2021 from the Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration information concerning the space object Satellite for Orbital Aerodynamics Research (SOAR) (see annex).¹

¹ The data on the space object referenced in the annex were entered into the Register of Objects Launched into Outer Space on 28 June 2021.





Annex

Registration data on a space object launched by the United Kingdom of Great Britain and Northern Ireland*

SOAR

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research

international designator

1998-067SM

Name of the space object Satellite for Orbital Aerodynamics Research

(SOAR)

State of registry United Kingdom of Great Britain and

Northern Ireland

North American Aerospace Defense

Command Catalogue Number

(NORAD ID)

48850

Date and territory or location

of launch

14 June 2021 at 0905 hours UTC;

Space-based launch from the International

Space Station (ISS)

Basic orbital parameters

Nodal period 92.93 minutes
Inclination 51.64 degrees
Apogee 421 kilometres
Perigee 415 kilometres

General function of the space object SOAR is to demonstrate aerodynamic

materials (specifically, materials which specularly reflect atomic oxygen in the free

molecular flow environment), and

aerodynamic attitude and orbit control. The payloads include an ion and neutral mass

spectrometer to characterize the

flow/atmospheric environment, and deployed steerable fins with different surface coatings to

be used as aerodynamic surfaces

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

Space object owner or operator University of Manchester

Website https://discoverer.space
Launch vehicle Deployed from ISS

2/2 V.21-04886

^{*} The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.