



**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 15 September 2010 from the Permanent
Mission of Japan to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of Japan to the United Nations (Vienna) presents its compliments to the Secretary-General of the United Nations and, 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 information concerning the launching of space objects Venus Climate Orbiter "AKATSUKI" (PLANET-C) (international designator 2010-020D), Small Solar Power Sail Demonstrator "IKAROS" (international designator 2010-020E), Negai (international designator 2010-020C), UNITEC-1 (international designator 2010-020F), and SERVIS-2 (international designator 2010-023A) (see annex).



Annex

Registration data on space objects launched by Japan*

Venus Climate Orbiter “AKATSUKI” (PLANET-C)

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

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|---|---|
| Committee on Space Research international designator: | 2010-020D |
| Name of space object: | Venus Climate Orbiter “AKATSUKI” (PLANET-C) |
| National designator/registration number: | 2010-020D |
| State of registry: | Japan |
| Date and territory or location of launch | |
| Date of launch: | 20 May 2010 21 hrs 58 min 22 sec UTC |
| Territory or location of launch: | Tanegashima Space Centre, Kagoshima, Japan |
| Basic orbital parameters | |
| Nodal period: | 1,860 minutes |
| Inclination: | 160 degrees |
| Apogee: | 79,000 kilometres (Apocytherion) |
| Perigee: | 500 kilometres (Pericytherion) |
| General function of space object: | The mission of “AKATSUKI” (PLANET-C) is to elucidate the dynamics of the atmosphere of Venus, in particular its super-rotation, by means of three-dimensional visualizations of atmospheric motions using multi-wavelength imaging from orbit. The satellite will also measure the surface temperatures and look for evidence of volcanic activity and lightning. |

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

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

| | |
|---|--|
| Space object owner or operator: | Japan Aerospace Exploration Agency |
| Launch vehicle: | H-IIA Launch Vehicle Flight No. 17 (H-IIA 17F) |
| Celestial body that space object is orbiting: | Venus |
| Other information: | Basic orbital parameters described above are for orbits around Venus and are as at 22 May 2010. Launching organizations are Mitsubishi Heavy Industries, Ltd. and Japan Aerospace Exploration Agency. |

Small Solar Power Sail Demonstrator “IKAROS”

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

| | |
|---|--|
| Committee on Space Research international designator: | 2010-020E |
| Name of space object: | Small Solar Power Sail Demonstrator “IKAROS” |
| National designator/registration number: | 2010-020E |
| State of registry: | Japan |
| Date and territory or location of launch | |
| Date of launch: | 20 May 2010 21 hrs 58 min 22 sec UTC |
| Territory or location of launch | Tanegashima Space Centre, Kagoshima, Japan |
| Basic orbital parameters | |
| Nodal period: | 444,480 minutes |
| Inclination: | 24.5 degrees |
| Apogee: | 159,800,000 kilometres (Aphelion) |
| Perigee: | 107,600,000 kilometres (Perihelion) |
| General function of space object: | Small Solar Power Sail Demonstrator “IKAROS” is the world’s first solar-powered sail craft employing both photon propulsion and thin-film solar power generation during its interplanetary cruise. |

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

| | |
|---|--|
| Space object owner or operator: | Japan Aerospace Exploration Agency |
| Launch vehicle: | H-IIA Launch Vehicle Flight No. 17 (H-IIA 17F) |
| Celestial body that space object is orbiting: | Sun |
| Other information: | Basic orbital parameters described above are for orbits around the Sun and are as at 22 May 2010. Launching organizations are Mitsubishi Heavy Industries, Ltd. and Japan Aerospace Exploration Agency. |

Negai

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

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|---|--|
| Committee on Space Research international designator: | 2010-020C |
| Name of space object: | Negai |
| National designator/registration number: | 2010-020C |
| State of registry: | Japan |
| Date and territory or location of launch | |
| Date of launch: | 20 May 2010 21 hrs 58 min 22 sec UTC |
| Territory or location of launch: | Tanegashima Space Centre, Kagoshima, Japan |
| Basic orbital parameters | |
| Nodal period: | 90 minutes |
| Inclination: | 30 degrees |
| Apogee: | 300 kilometres |
| Perigee: | 300 kilometres |
| General function of space object: | Space verification of an advanced information processing system using commercial Field Programmable Gate Arrays. |
| Date of decay/re-entry/deorbit: | 26 June 2010 |

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

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|---------------------------------|---|
| Website: | http://kuro.t.soka.ac.jp/negai/sokags/index.html |
| Space object owner or operator: | Soka University Kuroki Laboratory |
| Launch vehicle: | H-IIA Launch Vehicle Flight No. 17 (H-IIA 17F) |
| Other information: | Launching organizations are Mitsubishi Heavy Industries, Ltd. and Japan Aerospace Exploration Agency. |

UNITEC-1

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

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|---|--|
| Committee on Space Research international designator: | 2010-020F |
| Name of space object: | UNITEC-1 |
| National designator/registration number: | 2010-020F |
| State of registry: | Japan |
| Date and territory or location of launch | |
| Date of launch: | 20 May 2010 21 hrs 58 min 22 sec UTC |
| Territory or location of launch: | Tanegashima Space Centre, Kagoshima, Japan |
| Basic orbital parameters | |
| Nodal period: | Deep space trajectory to Venus (no cyclic orbit) |
| Inclination: | 31 degrees |
| Apogee: | 160,000,000 kilometres |
| Perigee: | 291 kilometres |
| General function of space object: | Technology experiment of a deep space probe and onboard computers; low bit-rate communication from deep space; and measurement of the radiation environment. |

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

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|---|---|
| Website: | www.unisec.jp/unitec-1/ |
| Space object owner or operator: | Japan Aerospace Exploration Agency |
| Launch vehicle: | H-IIA Launch Vehicle Flight No. 17 (H-IIA 17F) |
| Celestial body that space object is orbiting: | Sun |
| Other information: | Launching organizations are Mitsubishi Heavy Industries, Ltd. and Japan Aerospace Exploration Agency. |

SERVIS-2

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

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|---|--|
| Committee on Space Research international designator: | 2010-023A |
| Name of space object: | SERVIS-2 |
| National designator/registration number: | 2010-023A |
| State of registry: | Japan |
| Date and territory or location of launch | |
| Date of launch: | 2 June 2010 1 hr 59 min 11 sec UTC |
| Territory or location of launch: | Plesetsk Cosmodrome, Russian Federation |
| Basic orbital parameters | |
| Nodal period: | 109 minutes |
| Inclination: | 100.4 degrees |
| Apogee: | 1,201 kilometres |
| Perigee: | 1,191 kilometres |
| General function of space object: | Acquisition of technical data on commercial off-the-shelf parts and technologies for space applications. |

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

Website: www.usef.or.jp/english/e_index.html
Space object owner or operator: Institute for Unmanned Space Experiment Free Flyer
Launch vehicle: ROKOT
