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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 20 March 2007 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 the Japanese satellites Daichi, Himawari-7, Akari, Cute-1.7 + APD, JCSAT-9, JCSAT-10, Hinode, HIT-SAT and Kiku-VIII (see annex).



## Annex

### Registration data for space objects launched by Japan\*

#### A. Advanced Land Observing Satellite (ALOS) “Daichi”

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|--|---|
| 1. Name of flight object:                        | Advanced Land Observing Satellite (ALOS) “Daichi”   |
| 2. Designation:                                  | 2006-002A   |
| 3. Name of launching State:                      | Japan   |
| 4. Date and time of launch:                      | 24 January 2006 at 0133 GMT   |
| 5. Location of launch:                           | Tanegashima Space Center, Kagoshima, Japan  |
| 6. Basic orbital parameters (as at 15 May 2006): |   |
| (a) Nodal period:                                | 98 minutes  |
| (b) Inclination:                                 | 98.2 degrees  |
| (c) Apogee:                                      | 711.4 kilometres  |
| (d) Perigee:                                     | 692.9 kilometres  |
| 7. General function:                             | Obtain data useful for topography and land use, as well as land information to produce global 1:25,000 scale maps |
| 8. Launch vehicle:                               | H-IIA Launch Vehicle F8 (H-IIA-F8)  |
| 9. Launching organization:                       | Japan Aerospace Exploration Agency (JAXA)   |
| 10. Decay date:                                  | ---   |

#### B. Multi-Functional Transport Satellite (MTSAT-2) “Himawari-7”

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|---|---|
| 1. Name of flight object:                             | Multi-Functional Transport Satellite (MTSAT-2) “Himawari-7” |
| 2. Designation:                                       | 2006-004A   |
| 3. Name of launching State:                           | Japan   |
| 4. Date and time of launch:                           | 18 February 2006 at 0627 GMT                                |
| 5. Location of launch:                                | Tanegashima Space Center, Kagoshima, Japan                  |
| 6. Basic orbital parameters (as at 28 February 2006): |   |
| (a) Nodal period:                                     | 1,436 minutes   |
| (b) Inclination:                                      | 0.021 degrees   |
| (c) Apogee:   | 35,797 kilometres   |

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\* The registration data are reproduced in the form in which they were received.

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|----------------------------|---|
| (d) Perigee:               | 35,775 kilometres                         |
| 7. General function:       | Aeronautical and meteorological services  |
| 8. Launch vehicle:         | H-IIA Launch Vehicle F9 (H-IIA-F9)        |
| 9. Launching organization: | Japan Aerospace Exploration Agency (JAXA) |
| 10. Decay date:            | ---                                       |

### C. Infrared Astronomy Satellite (ASTRO-F) “Akari”

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|---|---|
| 1. Name of flight object:                             | 21st Scientific Spacecraft, Infrared Astronomy Satellite (ASTRO-F) “Akari”                                |
| 2. Designation:                                       | 2006-005A   |
| 3. Name of launching State:                           | Japan   |
| 4. Date and time of launch:                           | 21 February 2006 at 2128 GMT  |
| 5. Location of launch:                                | Uchinoura Space Center, Kagoshima, Japan  |
| 6. Basic orbital parameters (as at 22 February 2006): |   |
| (a) Nodal period:                                     | 95 minutes  |
| (b) Inclination:                                      | 98.2 degrees  |
| (c) Apogee:   | 733 kilometres  |
| (d) Perigee:  | 304 kilometres  |
| 7. General function:                                  | Obtain data to study the evolution of galaxies and the formation processes of stars and planetary systems |
| 8. Launch vehicle:                                    | M-V Launch Vehicle F8 (M-V-8)   |
| 9. Launching organization:                            | Japan Aerospace Exploration Agency (JAXA)   |
| 10. Decay date:                                       | ---   |

### D. Cute-1.7 + APD

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|-----------------------------|--|
| 1. Name of flight object:   | Pico-Satellite “Cute-1.7 + APD” of the Tokyo Institute of Technology |
| 2. Designation:             | 2006-005C  |
| 3. Name of launching State: | Japan  |
| 4. Date and time of launch: | 21 February 2006 at 2128 GMT   |
| 5. Location of launch:      | Uchinoura Space Center, Kagoshima, Japan                             |

6. Basic orbital parameters (as at 20 April 2006):
  - (a) Nodal period: 94.57 minutes
  - (b) Inclination: 98.18 degrees
  - (c) Apogee: 696 kilometres
  - (d) Perigee: 300 kilometres
7. General function: Verify pico-satellite bus technology and conduct amateur radio frequency transmission experiment
8. Launch vehicle: M-V Launch Vehicle F8 (M-V-8)
9. Launching organization: Japan Aerospace Exploration Agency (JAXA)
10. Decay date: ---

## **E. JCSAT-9**

1. Name of flight object: JCSAT-9
2. Designation: 2006-010A
3. Name of launching State: Japan
4. Date and time of launch: 12 April 2006 at 2330 GMT
5. Location of launch: 154 degrees West longitude on equator
6. Basic orbital parameters (as at 8 June 2006):
  - (a) Nodal period: 1,436 minutes
  - (b) Inclination: 0.027 degrees
  - (c) Apogee: 35,794 kilometres
  - (d) Perigee: 35,785 kilometres
7. General function: Domestic and international telecommunications
8. Launch vehicle: Zenit-3SL
9. Launching organization: Sea Launch
10. Decay date: ---

## **F. JCSAT-10**

1. Name of flight object: JCSAT-10
2. Designation: 2006-033A
3. Name of launching States: Japan (France)
4. Date and time of launch: 11 August 2006 at 2215 GMT
5. Location of launch: Guiana Space Centre, Kourou, French Guiana

6. Basic orbital parameters (as at 25 September 2006):
  - (a) Nodal period: 1,436 minutes
  - (b) Inclination: 0.043 degrees
  - (c) Apogee: 35,788 kilometres
  - (d) Perigee: 35,785 kilometres
7. General function: Domestic and international telecommunications and domestic broadcasting
8. Launch vehicle: Ariane 5 ECA
9. Launching organization: Arianespace
10. Decay date: ---

### **G. Solar Physics Satellite (SOLAR-B) “Hinode”**

1. Name of flight object: Solar Physics Satellite (SOLAR-B) “Hinode”
2. Designation: 2006-041A
3. Name of launching State: Japan
4. Date and time of launch: 22 September 2006 at 2136 GMT
5. Location of launch: Uchinoura Space Center, Kagoshima, Japan
6. Basic orbital parameters (as at 23 September 2006):
  - (a) Nodal period: 105 minutes
  - (b) Inclination: 98.3 degrees
  - (c) Apogee: 686 kilometres
  - (d) Perigee: 280 kilometres
7. General function: Obtain data for solar physics observations with three advanced telescopes operating in the visible, X-ray and extreme ultraviolet wavebands; elucidation of fundamental matters in the field of cosmic particle physics
8. Launch vehicle: M-V Launch Vehicle F7 (M-V-7)
9. Launching organization: Japan Aerospace Exploration Agency (JAXA)
10. Decay date: ---

**H. Pico-Satellite “HIT-SAT”**

1. Name of flight object: Hokkaido Institute of Technology  
Pico-Satellite “HIT-SAT”
2. Designation: 2006-041F
3. Name of launching State: Japan
4. Date and time of launch: 22 September 2006 at 2136 GMT
5. Location of launch: Uchinoura Space Center,  
Kagoshima, Japan
6. Basic orbital parameters (as at 28 September 2006):
  - (a) Nodal period: 94 minutes
  - (b) Inclination: 98.3 degrees
  - (c) Apogee: 667 kilometres
  - (d) Perigee: 280 kilometres
7. General function: Amateur radio frequency  
communications and attitude control
8. Launch vehicle: M-V Launch Vehicle F7 (M-V-7)
9. Launching organization: Japan Aerospace Exploration Agency  
(JAXA)
10. Decay date: ---

**I. Engineering Test Satellite-VIII (ETS-VIII) “Kiku VIII”**

1. Name of flight object: Engineering Test Satellite-VIII  
(ETS-VIII) “Kiku VIII”
2. Designation: 2006-059A
3. Name of launching State: Japan
4. Date and time of launch: 18 December 2006 at 0632 GMT
5. Location of launch: Tanegashima Space Center,  
Kagoshima, Japan
6. Basic orbital parameters:
  - (a) Nodal period: 23 hours, 56 minutes
  - (b) Inclination: 0.12 degrees
  - (c) Apogee: 35,796 kilometres
  - (d) Perigee: 35,776 kilometres
7. General function: Development and verification of the  
following technologies in  
geostationary orbit:
  - (a) Advanced 3-ton-class  
spacecraft bus technology;
  - (b) Large-scale deployable

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- |                            |   |
|----------------------------|---|
| 7. General function:       | Development and verification of the following technologies in geostationary orbit: <ul style="list-style-type: none"><li>(a) Advanced 3-ton-class spacecraft bus technology;</li><li>(b) Large-scale deployable antenna technology;</li><li>(c) Communications technology to link geostationary satellites with hand-held terminals;</li><li>(d) Basic technology for geostationary satellite positioning using a high-precision clock system</li></ul> |
| 8. Launch vehicle:         | H-IIA Launch Vehicle F11<br>(H-IIA-F11)   |
| 9. Launching organization: | Japan Aerospace Exploration Agency<br>(JAXA)  |
| 10. Decay date:            | ---   |
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