# Suitability as Hosted Payload Opportunity: Plausible

## Launch Vehicle Source: Domestic or TBD

### ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | Orbital CRS-3 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2013 | Orbital CRS-4 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

**Assumptions and Caveats**

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
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|---|---|---|---|---|---|---|---|---|
| 2014 | Orbital CRS-5 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2014 | Orbital CRS-6 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2015 | Orbital CRS-7 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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|---|---|---|---|---|---|---|---|---|
| 2015 | Orbital CRS-8 | NASA / Orbital | Antares | Cygnus | 350 | 51.7 | | Plausible as hosted payload opportunity. Attached to Cygnus Service Module on one of two external surfaces. Option to become Free flyer--up to 1 year duration, including ISS resupply, once CRS mission complete--contingent on agreement with Orbital Sciences Corporation via ISS Commercial Cargo Office (JSC-ON, 281-244-7626).<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

## LEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2014 | DragonLab Mission 1 | SpaceX | Falcon 9 | Dragon | | | | 2 yr mission. Recoverable pressurized capsule; destructively re-entered unpressurized trunk. 300-1000km @ 20-90 deg inclination. Up to 6000kg mass split between capsule and trunk. Power to all hosted payloads: 2 kW continuous, 4 kW peak. 1.2 Gbps data rate via SpaceX or 600 Mbps via TDRS at additional cost. All data protocols except SpW supported. Hosted payloads pressurized and unpressurized. |
| 2015 | Iridium-NEXT 01 | Iridium | | Iridium NEXT | 780 | 86.4 | | Iridium has contracted with SpaceX to be a major provider of launch services using the Falcon 9 booster. Kosmotras has received a contract to provide supplemental launch services on Dnepr-1 launch vehicles. The number of flights, the number of satellites on each launch, and the distribution of launch vehicles have not yet been disclosed. |
| 2015 | Iridium-NEXT 02 | Iridium | | Iridium NEXT | 780 | 86.4 | | Hosted Payload specs: mass <=50kg; 30x40x70 cm; power <= 50W orbital average, 200W peak; data rate <= 100 kbps orbital average, 1 Mbps peak |
| 2015 | Iridium-NEXT 03 | Iridium | | Iridium NEXT | 780 | 86.4 | | SensorPOD option for unused mass and volume from a 50kg class hosted payload: mass <= 4kg; 10x10x10 cm to 20x20x14 cm; power <= 5W orbital average, 10W peak; data rate <= 10 kbps orbital average, 100 kbps peak |

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|---|---|---|---|---|---|---|---|---|
| 2015 | Iridium-NEXT 04 | Iridium | | Iridium NEXT | 780 | 86.4 | | Orbital made several non-refundable deposits totaling $10 million for a right of first refusal on 20 percent of the fleet's capacity to host third-party payloads. |
| 2015 | Iridium-NEXT 05 | Iridium | | Iridium NEXT | 780 | 86.4 | | Iridium will finalize ICD at Space Vehicle PDR in 1Q2012. |
| 2015 | Iridium-NEXT 06 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 07 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 08 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 09 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 10 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 11 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 12 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 13 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 14 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 15 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 16 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 17 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 18 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 19 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 20 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 21 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 22 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 23 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 24 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 25 | Iridium | | Iridium NEXT | 780 | 86.4 | | |

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|---|---|---|---|---|---|---|---|---|
| 2015 | Iridium-NEXT 26 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 27 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 28 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 29 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 30 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 31 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 32 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 33 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 34 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 35 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 36 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 37 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 38 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 39 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 40 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | Iridium-NEXT 41 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2015 | DragonLab Mission 2 | SpaceX | Falcon 9 | Dragon | | | | 2 yr mission. Recoverable pressurized capsule; destructively re-entered unpressurized trunk. 300-1000km @ 20-90 deg inclination. Up to 6000kg mass split between capsule and trunk. Power to all hosted payloads: 2 kW continuous, 4 kW peak. 1.2 Gbps data rate via SpaceX or 600 Mbps via TDRS at additional cost. All data protocols except SpW supported. Hosted payloads pressurized and unpressurized. |
| 2016 | Iridium-NEXT 42 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 43 | Iridium | | Iridium NEXT | 780 | 86.4 | | |

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|---|---|---|---|---|---|---|---|---|
| 2016 | Iridium-NEXT 44 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 45 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 46 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 47 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 48 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 49 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 50 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 51 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 52 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 53 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 54 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 55 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 56 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 57 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 58 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 59 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 60 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 61 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 62 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 63 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 64 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 65 | Iridium | | Iridium NEXT | 780 | 86.4 | | |

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|---|---|---|---|---|---|---|---|---|
| 2016 | Iridium-NEXT 66 | Iridium | | Iridium NEXT | 780 | 86.4 | | |
| 2016 | Iridium-NEXT 67 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 68 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 69 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 70 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 71 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 72 | Iridium | | Iridium NEXT | 780 | 86.4 | | In-Orbit Spare |
| 2016 | Iridium-NEXT 73 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 74 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 75 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 76 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 77 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 78 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 79 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 80 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |
| 2016 | Iridium-NEXT 81 | Iridium | | Iridium NEXT | 780 | 86.4 | | Ground Spare |

# Suitability as Hosted Payload Opportunity: Implausible or Unknown

## Launch Vehicle Source: Domestic or TBD

## GEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | TDRS-L | NASA | Atlas V 401 | BSS-601HP | 36000 | 0 | | |

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|---|---|---|---|---|---|---|---|---|
| 2013 | SES-8 | SES World Skies | Falcon 9 | Star-2.4 | 36000 | 0 | 95E | |
| 2013 | AEHF 4 | USAF | Atlas V 531 | A2100M | 36000 | 0 | | |
| 2013 | MEXSAT-1 | Mexican Space Agency | | BSS-702GEM | 36000 | 0 | 113W | |
| 2013 | MEXSAT-2 | Mexican Space Agency | | BSS-702GEM | 36000 | 0 | 116.8W | |
| 2013 | ARSAT 2 | ARSAT | | ARSAT-Bus | 36000 | 0 | 81W | |
| 2013 | Ekspress-AM7 | RSCC | | | 36000 | 0 | 40E | |
| 2013 | KazSat 3 | JSC KazSat | | Ekspress-1000N | 36000 | 0 | 58.5E | |
| 2013 | MEASAT-3b | MEASAT | | Eurostar-3000 | 36000 | 0 | 91.5W | |
| 2013 | MUOS 2 | USN | Atlas V 551 | A2100M | 36000 | 0 | | |
| 2013 | Optus 10 | SingTel Optus | | LS-1300 | 36000 | 0 | | |
| 2013 | WGS 6 | Australian Department of Defence / USAF | EELV | BSS-702 | 36000 | 0 | | |
| 2014 | Meteosat-11 | ESA / EUMETSAT | | MSG | 36000 | 0 | 0E | |
| 2014 | AEHF 5 | USAF | Atlas V 531 | | 36000 | 0 | | |
| 2014 | Eutelsat 3B | Eutelsat Communications | | Eurostar-3000 | 36000 | 0 | 3E | |
| 2014 | AMOS 6 | Spacecom | Falcon 9 | | 36000 | 0 | 4W | |
| 2014 | Elektro-L N3 | ROSKOSMOS / ROSHYDROMET | | | 36000 | 0 | | |
| 2014 | GOES R | NOAA | EELV Medium | A2100A | 36000 | 0 | | |
| 2014 | Intelsat 30 (DLA 1) | Intelsat | | LS-1300 | 36000 | 0 | 95W | |
| 2014 | MUOS 3 | USN | Atlas V 551 | A2100M | 36000 | 0 | | |
| 2014 | SBIRS-GEO 3 | USAF | EELV | A2100M | 36000 | 0 | | |
| 2014 | WGS 7 | USAF | EELV | BSS-702 | 36000 | 0 | | |
| 2015 | AEHF 6 | USAF | Atlas V 531 | | 36000 | 0 | | |

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|---|---|---|---|---|---|---|---|---|
| 2015 | Intelsat 30 (DLA 2) | Intelsat | | LS-1300 | 36000 | 0 | 95W | |
| 2015 | MUOS 4 | USN | EELV | A2100M | 36000 | 0 | | |
| 2015 | WGS 8 | USAF | EELV | BSS-702 | 36000 | 0 | | |
| 2016 | GOES S | NOAA | EELV Medium | A2100A | 36000 | 0 | | |
| 2016 | MUOS 5 | USN | EELV | A2100M | 36000 | 0 | | |
| 2016 | SBIRS-GEO 4 | USAF | EELV | A2100M | 36000 | 0 | | |

## HEO

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|---|---|---|---|---|---|---|---|---|
| 2014 | MMS 1 | NASA / SwRI | Atlas V 421 | | 1274 x 70081 | 28 | | MMS 1, 2, 3, 4 flying together |
| 2014 | MMS 2 | NASA / SwRI | Atlas V 421 | | 1274 x 70081 | 28 | | MMS 1, 2, 3, 4 flying together |
| 2014 | MMS 3 | NASA / SwRI | Atlas V 421 | | 1274 x 70081 | 28 | | MMS 1, 2, 3, 4 flying together |
| 2014 | MMS 4 | NASA / SwRI | Atlas V 421 | | 1274 x 70081 | 28 | | MMS 1, 2, 3, 4 flying together |

## ISS Resource

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|---|---|---|---|---|---|---|---|---|
| 2013 | SpaceX CRS 3 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | SpaceX CRS 4 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2014 | SpaceX CRS 5 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2014 | SpaceX CRS 6 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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|---|---|---|---|---|---|---|---|---|
| 2014 | SpaceX CRS 7 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2015 | SpaceX CRS 8 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2015 | SpaceX CRS 9 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2015 | SpaceX CRS 10 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival. Will carry up to 4 PPODS.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2015 | SpaceX CRS 11 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival. Will carry up to 4 PPODS.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 2015 | SpaceX CRS 12 | NASA / SpaceX | Falcon 9 | Dragon | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume available. Rideshare/secondary payloads may be ejected from trunk prior to or to ISS arrival. Will carry up to 4 PPODS.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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## LEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | Orbcomm 2-10 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-11 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-4 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-5 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-6 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-7 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-8 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Orbcomm 2-9 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The schedule foresees Falcon 9 making an Orbcomm-dedicated flight in early 2013, carrying between eight and 12 satellites (Spacenews, 29DEC11) |
| 2013 | Jason-3 | NOAA | | Proteus | 1336 | 66 | | |
| 2014 | GEMS | NASA | Pegasus-XL | LEOStar-2 | 575 | | | |
| 2014 | GPM Constellation | NASA | | | 635 | 40 | | |
| 2014 | Orbcomm 2-12 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2014 | Orbcomm 2-13 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2014 | Orbcomm 2-14 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2014 | Orbcomm 2-15 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |

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## LEO

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|---|---|---|---|---|---|---|---|---|
| 2014 | Orbcomm 2-16 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2014 | Orbcomm 2-17 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2014 | Orbcomm 2-18 | ORBCOMM | Falcon 9 | SN-100 | 750 | 51.7 | | The rest of the 18-satellite constellation will be launched by Falcon 9 in 2014 (Spacenews, 29DEC11) |
| 2016 | GPM-Br | INPE | | | 600 | 30 | | |

## MEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | GPS-2F 6 | USAF | Atlas V 401 | GPS | 20200 | 55 | | |
| 2013 | GPS-2F 7 | USAF | Atlas V 401 | GPS | 20200 | 55 | | |
| 2013 | GPS-2F 8 | USAF | Atlas V 401 | GPS | 20200 | 55 | | |
| 2014 | GPS-2F 9 | USAF | Delta IV M+ (4,2) | | 20200 | 55 | | |
| 2014 | GPS-3A 1 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2014 | GPS-2F 10 | USAF | Delta IV M+ (4,2) | | 20200 | 55 | | |
| 2014 | GPS-3A 2 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2014 | GPS-2F 11 | USAF | EELV | | 20200 | 55 | | |
| 2015 | GPS-3A 3 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2015 | GPS-2F 12 | USAF | EELV | | 20200 | 55 | | |
| 2015 | GPS-3A 4 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |

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## MEO

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|---|---|---|---|---|---|---|---|---|
| 2015 | GPS-3A 5 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2016 | GPS-3A 6 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2016 | GPS-3A 7 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2016 | GPS-3A 8 | USAF | EELV | A2100A | 20200 | 55 | | GPS-III Block A satellite vehicles designated as "Return to PNT (Position, Navigation, and Timing)." No hosted payloads authorized. |
| 2017 | GPS-3B 9 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2017 | GPS-3B 10 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2017 | GPS-3B 11 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2018 | GPS-3B 12 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |

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|---|---|---|---|---|---|---|---|---|
| 2018 | GPS-3B 13 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2018 | GPS-3B 14 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2019 | GPS-3B 15 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2019 | GPS-3B 16 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2019 | GPS-3C 17 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2020 | GPS-3C 18 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |

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|---|---|---|---|---|---|---|---|---|
| 2020 | GPS-3C 19 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2020 | GPS-3C 20 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2021 | GPS-3C 21 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2021 | GPS-3C 22 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2021 | GPS-3C 23 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |
| 2022 | GPS-3C 24 | USAF | EELV | A2100A | 20200 | 55 | | Hosting Search and Rescue/GPS (SAR/GPS), formerly Distress Alerting Satellite System (DASS), payload sponsored by NASA, NOAA, USAF, and USCG. Any propsective hosted payload needs to petition Interagency Forum for Operational Requirements (IFOR), chaired by US Air Force Space Command and Department of Transporation. |

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## SSO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | Sentinel-3 A | ESA / EC | | Prima | 814 | 98.65 | | |
| 2013 | Sentinel-2 A | ESA / EC | Rokot-KM | | 786 | 98.62 | | |
| 2013 | AMAZÔNIA-1 | INPE | | MMP | 753 | 0 | | |
| 2013 | SAOCOM 1B | CONAE | Falcon 9 | SAOCOM | 620 | 97.89 | | |
| 2013 | EarthCARE | ESA / JAXA | | | 393 | 97 | | |
| 2013 | Arkon-2M | ROSKOSMOS | | | 500 | | | |
| 2013 | CARTOSAT-3 | ISRO | | | | | | |
| 2013 | OCO-2 | NASA | | LEOStar-2 | 705 | 98.2 | | |
| 2013 | SCATSAT | ISRO | | | | | | |
| 2013 | TerraSAR-X2 | DLR | | | | | | |
| 2013 | TES-HYS | ISRO | | | | | | |
| 2014 | Ingenio | CDTI | | AstroSat 250 | 668 | 98 | | |
| 2014 | SAC-E/SABIA/mar | CONAE | | | | | | |
| 2014 | GCOM-C1 | JAXA | | | 800 | 98.6 | | |
| 2014 | CSG-1 | ASI | | | 620 | 97.8 | | |
| 2014 | DMSP F-20 | NOAA | Delta IV M | Tiros-N | 850 | 98.7 | | |
| 2014 | WorldView 3 | DigitalGlobe | Atlas V 401 | BCP-5000 | 770 | | | Current WorldView customers include NGA |
| 2014 | Sentinel-5 precursor | ESA / NSO | | | 824 | 98.742 | | |
| 2014 | FY-3D | NRSCC | | | 830 | 98.753 | | |
| 2014 | Sentinel-1 B | ESA / EC | | Prima | 693 | 98.19 | | |
| 2014 | Sentinel-3 B | ESA / EC | | Prima | 814 | 98.65 | | |
| 2014 | ALOS-3 | JAXA | | | | | | |

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## SSO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2014 | D/F Climate Mission | DLR | | | 650 | | | |
| 2014 | Meteor-MP N1 | ROSKOSMOS / ROSHYDROMET | | | | | | |
| 2014 | OCEANSAT-3 | ISRO | | | 720 | 98.28 | | |
| 2014 | RESOURCESAT-3 | ISRO | | | 817 | 98.72 | | |
| 2014 | RISAT-3L | ISRO | | | | 97.844 | | |
| 2014 | SMAP | NASA | | | 685 | 98 | | |
| 2015 | ISTAG | ISRO | | | | | | |
| 2015 | MAPSAR | INPE | | MMP | 620 | 98 | | |
| 2015 | Meteor-MP N2 | ROSKOSMOS / ROSHYDROMET | | | | | | |
| 2015 | SAOCOM 2A | CONAE | Falcon 9 | SAOCOM | 620 | 98 | | |
| 2016 | GCOM-W2 | JAXA | | | 700 | 98.2 | | |
| 2016 | ICESat-2 | NASA | | LEOStar-3 | 594 x 586 | 94 | | |
| 2016 | Meteor-MP N3 | ROSKOSMOS / ROSHYDROMET | | | | | | |
| 2016 | SAOCOM 2B | CONAE | Falcon 9 | SAOCOM | 620 | 98 | | |
| 2018 | GCOM-C2 | JAXA | | | 800 | 98.6 | | |
| 2019 | Post-EPS | ESA / EUMETSAT | | | | | | |

## TBD

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | NROL-33 | NRO | Atlas V Medium | | | | | CCAFS Launch |
| 2013 | NROL-65 | NRO | Delta IV H | | | | | VAFB Launch |
| 2013 | NROL-67 | NRO | Atlas V Medium | | | | | CCAFS Launch |

**Assumptions and Caveats**

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## TBD

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2014 | NROL-35 | NRO | Atlas V Medium | | | | | VAFB Launch |
| 2014 | NROL-39 | NRO | Atlas V Medium | | | | | VAFB Launch |
| 2014 | NROL-55 | NRO | EELV Medium | | | | | VAFB Launch |
| 2016 | NROL-37 | NRO | EELV Heavy | | | | | CCAFS Launch |
| 2016 | NROL-79 | NRO | EELV Medium | | | | | VAFB Launch |
| 2017 | NROL-42 | NRO | EELV Medium | | | | | VAFB Launch |
| 2017 | NROL-61 | NRO | EELV Medium | | | | | CCAFS Launch |
| 2017 | NROL-45 | NRO | EELV Medium | | | | | VAFB Launch |
| 2017 | NROL-71 | NRO | EELV Heavy | | | | | VAFB Launch |
| 2018 | NROL-44 | NRO | EELV Heavy | | | | | CCAFS Launch |
| 2019 | NROL-52 | NRO | EELV Medium | | | | | CCAFS Launch |
| 2019 | NROL-47 | NRO | EELV Medium | | | | | VAFB Launch |
| 2020 | NROL-68 | NRO | EELV Heavy | | | | | CCAFS Launch |

# Launch Vehicle Source: Foreign

## GEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | Amazonas 3 | Hispasat | Ariane 5 ECA | LS-1300 | 36000 | 0 | 61W | |
| 2013 | Eurobird 2A / Es'hail 1 | Eutelsat Communications | Ariane 5 ECA | LS-1300 | 36000 | 0 | 25.5E | |
| 2013 | Eutelsat W3D | Eutelsat Communications | Proton-M Briz-M | Spacebus-4000C3 | 36000 | 0 | 7E | |
| 2013 | Astra 2F | SES Astra | Ariane 5 ECA | Eurostar-3000 | 36000 | 0 | 28.2E | |
| 2013 | Astra 5B | SES Astra | Ariane 5 ECA | Eurostar-3000 | 36000 | 0 | 31.5E | |

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## GEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | ABS-2 | ABS | Ariane 5 ECA | LS-1300 | 36000 | 0 | 75E | |
| 2013 | Elektro-L N2 | ROSKOSMOS / ROSHYDROMET | Zenit-3 F | | 36000 | 0 | 14.5E | |
| 2013 | SICRAL 2 | Italian Ministry of Defense | Ariane 5 ECA | Spacebus-4000B2 | 36000 | 0 | 36E | |
| 2013 | Skynet 5D | Paradigm Secure Communications | Ariane 5 ECA | Eurostar-3000S | 36000 | 0 | | |
| 2013 | Thor 7 | Telenor | Ariane 5 ECA | LS-1300 | 36000 | 0 | 1W | |
| 2013 | Türksat 4A | Turksat | Proton-M Briz-M (Ph 4) | DS-2000 | 36000 | 0 | 42E | |
| 2013 | Yamal 401 | Gazprom Space Systems | Proton-M Briz-M (Ph 4) | Ekspress-2000 | 36000 | 0 | 90E | |
| 2014 | Astra 2G | SES Astra | Ariane 5 ECA | Eurostar-3000 | 36000 | 0 | 28.2E | |
| 2014 | DirecTV 14 | DirecTV | Ariane 5 ECA | LS-1300 | 36000 | 0 | | |
| 2014 | Inmartsat-5 F1 | Inmarsat | Proton-M Briz-M | BSS-702HP | 36000 | 0 | | |
| 2014 | Türksat 4B | Turksat | Proton-M Briz-M (Ph 4) | DS-2000 | 36000 | 0 | 50E | |
| 2015 | Inmartsat-5 F2 | Inmarsat | Proton-M Briz-M | BSS-702HP | 36000 | 0 | | |
| 2015 | Inmartsat-5 F3 | Inmarsat | Proton-M Briz-M | BSS-702HP | 36000 | 0 | | |
| 2015 | Türksat 5A | Turksat | Proton-M Briz-M (Ph 4) | | 36000 | 0 | | |

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|

**Assumptions and Caveats**

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 26 Apr 2013 | Progress 51P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 01 Jun 2013 | ATV4 | ESA | Ariane 5 ES | ATV | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized cargo only.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 10 Jun 2013 | JAXA HTV4 | JAXA | H-IIB | HTV | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Payload, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for instrument transport and ISS interface opportunities. |

**Assumptions and Caveats**

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 24 Jul 2013 | Progress 52P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 23 Oct 2013 | Progress 53P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 27 Dec 2013 | Progress 54P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

**Assumptions and Caveats**

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**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 27 Apr 2014 | Progress 55P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 01 Jun 2014 | ATV5 | ESA | Ariane 5 ES | ATV | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized cargo only.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 01 Jul 2014 | JAXA HTV5 | JAXA | H-IIB | HTV | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Payload, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for instrument transport and ISS interface opportunities. |

**Assumptions and Caveats**

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**LEGEND**

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Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 30 Jul 2014 | Progress 56P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 24 Oct 2014 | Progress 57P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 29 Dec 2014 | Progress 58P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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ISS Payload: a payload designed to interface/attach directly to ISS.

## ISS Resource

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 30 Apr 2015 | Progress 59P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |
| 01 Jul 2015 | JAXA HTV6 | JAXA | H-IIB | HTV | 350 | 51.7 | | Implausible as hosted payload opportunity due to limited lifetime (30 days). Pressurized and unpressurized volume.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Payload, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for instrument transport and ISS interface opportunties. |
| 30 Jul 2015 | Progress 60P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

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## ISS Resource

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|---|---|---|---|---|---|---|---|---|
| 22 Oct 2015 | Progress 61P | ROSKOSMOS | Soyuz-U | Progress-M | 350 | 51.7 | | Implausible as hosted payload opportunity. Vehicle not designed to accommodate hosted payloads. Pressurized cargo only. Docks to Station up to approximately 6 months. Destructively reenters following ISS Cargo Ops.<br><br>Any hardware that utilizes ISS launch vehicles or the ISS vehicle itself is considered to be an ISS Resource, regardless of whether the payload is deployed prior to ISS rendezvous, and must comply with all applicable requirements levied by the ISS Program Office. Contact ISS Payload Office (JSC-OZ) for transporation to become ISS Payload. |

## LEO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | O3b 1 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 1, 2, 3, 4 |
| 2013 | O3b 2 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 1, 2, 3, 4 |
| 2013 | O3b 3 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 1, 2, 3, 4 |
| 2013 | O3b 4 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 1, 2, 3, 4 |
| 2013 | GPM Core | NASA | H-IIA | | 407 | 65 | | |
| 2013 | O3b 5 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 5, 6, 7, 8 |
| 2013 | O3b 6 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 5, 6, 7, 8 |
| 2013 | O3b 7 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 5, 6, 7, 8 |
| 2013 | O3b 8 | O3b | Soyuz 2-1b Fregat | Proteus | 8063 | 0 | | Flying with O3b 5, 6, 7, 8 |

## SSO

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | KOMPSAT-3A | KARI | Dnepr-1 | | 685 | | | |

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**LEGEND**

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Hosted Payload: a payload manifested on a free flying spacecraft bus
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## SSO

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|---|---|---|---|---|---|---|---|---|
| 2014 | RADARSAT C-1 | CSA | Dnepr-1 | MAC-200 | 600 | 97.7 | | |
| 2014 | CBERS-4 | INPE | Long March 4C | | 778 | 98.5 | | |
| 2014 | Sentinel-2 B | ESA / EC | Vega | | 786 | 98.62 | | |
| 2014 | EnMAP | DLR | PSLV-CA | | 650 | | | |
| 2016 | Metop-C | ESA / EUMETSAT | Soyuz 2-1a Fregat | PPF/SPOT Mk. 3 | 840 | 98.8 | | Part of EUMETSAT Polar System |

## TBD

| Launch Date | Mission Name | Primary Owner / Operator | LV | S/C | Orbital Altitude (km) | Inc. (deg) | GEO Long. (deg) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2013 | Resurs P N2 | ROSKOSMOS / ROSHYDROMET | Soyuz 2-1b | | | | | |
| 2014 | UK-DMC 3A | DMC | Dnepr-1 | SSTL-300S1 | | | | |
| 2014 | UK-DMC 3B | DMC | Dnepr-1 | SSTL-300S1 | | | | |
| 2014 | UK-DMC 3C | DMC | Dnepr-1 | SSTL-300S1 | | | | |

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Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.

# Common Instrument Interface Hosted Payload Opportunity Database
# Change Log

| Original Version | Updated Version | Change |
|---|---|---|
| 9/27/2011 | 11/10/2011 | Updated launch vehicle for Eutelsat W3D |
| 9/27/2011 | 11/10/2011 | Updated remarks for JAXA HTV ISS Resource missions. |
| 9/27/2011 | 11/10/2011 | Added ESA ATV ISS Resource missions. |
| 9/27/2011 | 11/10/2011 | Added Progress ISS Resource missions. |
| 9/27/2011 | 11/10/2011 | Removed SAGE III from database, because SAGE III is instrument, not spacecraft mission. |
| 9/27/2011 | 11/10/2011 | Added information on SpaceX DragonLab mass accomodation to mission remarks |
| 9/27/2011 | 11/10/2011 | Distinguished Hosted Payload from ISS Payload in Legend footer |
| 9/27/2011 | 11/10/2011 | Updated Assumptions and Caveats footer to include text regarding mission suitability as HPO transitions as well as more precise details on ISS-related missions. |
| 9/27/2011 | 11/10/2011 | Updated remarks for Orbital CRS missions. |
| 9/27/2011 | 11/10/2011 | Changed "ISS" Orbit Domain to "ISS Resource" orbit domain to emphasize stakeholding role of ISS Program Office in any mission which utilizes ISS launch vehicles or the ISS vehicle itself. |
| 9/27/2011 | 11/10/2011 | Added grouping to break out known non-US launch vehicles. |
| 11/10/2011 | 1/3/2012 | Enumerated GPS-3 constellation as hosted payload opportunity in Medium Earth Orbit and included information on DASS / SAR-GPS hosted payload. HPO listed as unknown pending knowledge of accommodation parameters. |
| 11/10/2011 | 1/3/2012 | Updated name of Taurus II launch vehicle to Antares |
| 11/10/2011 | 1/3/2012 | Revised information on Iridium NEXT constellation, including adding details of SensorPOD HPO |
| 11/10/2011 | 1/3/2012 | Updated manifest of Orbcomm-2 constellation |

**Assumptions and Caveats**

Data derived from open source information found on public Internet to provide high-level overview of Earth-orbiting satellite market.
Data are neither validated with primary source nor guaranteed. Missions may transition from Implausible or Unknown Suitability to Plausible following further research. Information on ISS manifest provided for convenience only.
For questions associated with ISS Payloads or payloads flying on ISS resources, please contact the Manager of the ISS Technology Demonstration Office, Dr. George C. Nelson (JSC-OZ111), 281-244-8514.

**LEGEND**

Orbit Domains: ISS (International Space Station), LEO (Low Earth Orbit), GEO (Geostationary Earth Orbit), MEO (Medium Earth Orbit), HEO (Highly Elliptical Orbit), SSO (Sun Synchronous Orbit)
Hosted Payload: a payload manifested on a free flying spacecraft bus
ISS Payload: a payload designed to interface/attach directly to ISS.