
[編注] 今後、利便性向上のため、ファイル内で[リンク](#)を張り、末尾の方に分量の多い本文を配置してそちらとの間でジャンプができるもの

を増やしたり、インターネットへもなるべく[リンク](#)があるものは残すように致したく。

[アーカイブ] ミルスペースと「日米宇宙政策アップデート」を<http://www.space-library.com/> に置いています。ご利用下さい。

[独断と偏見] 今回のニュースの特徴を一言で表わすとしたら、「小型衛星の大流行」とするべきか。一過性でないとすると、流行よりもっと別の表現が妥当であろう。ニュースの中に各国の大学や宇宙開発途上国の初打上げ衛星が多数含まれている。この中には、それぞれ

が勉強して製作したものもあれば、SSTLに委託して製作してもらったものもある。また、ロシア人がロシアで宇宙技術を中国に流したことで逮捕された記事なども時期的に特徴的要素を含んでいると思われる。

2005年11月2日 2:35 AIA dailyLead November 1, 2005 -

ハッブル望遠鏡で科学者は冥王星を周回するさらに2つの衛星を見つけた

Using Hubble, scientists find two more moons circling Pluto

Astronomers have identified two small moons circling Pluto, upping to three the total number of moons orbiting the planet. "I can't really say we're really surprised," said Hal Weaver, a planetary scientist at

Johns Hopkins University's Applied Physics Laboratory in Laurel, Md., a co-leader of the observations. "We proposed this, to look for satellites around Pluto." [The New York Times](#) (11/1)

2005年11月1日 1:20 AIA dailyLead October 31, 2005 -

ロシアは Mozhayets-5 衛星とのコンタクトを失った

Russians lose contact with satellite

Russian space officials have lost contact with the **Mozhayets-5** satellite, which missed its designated orbit, according to news agencies. The incident is the latest of a series of errors that have hurt

the Russian space program. The satellite was launched Thursday by a Kosmos-3M booster rocket. [Florida Today \(Melbourne\)/Associated Press](#) (10/28)

2005年11月1日 17:50 WIRED NEWS (2005/11/01)

敵の発砲位置を瞬時に特定する新技術、米軍がテスト中

<http://hotwired.goo.ne.jp/news/20051101301.html>

人の耳に銃声が聞こえる前、着弾する1000分の1秒前に、攻撃を察知する——米陸軍は現在、赤外線センサを使って敵の銃の種類や発砲場所を瞬時に、かつ正確に特定できる新技術の実地テストを進

めている。銃撃された直後に自動的に撃返すシステムも開発中だが、発砲判断を人でなく機械が下すことには問題が指摘されている。

2005年11月1日 19:03 AstroExpo.com Top Weekly News <http://www.astroexpo.com/news/TopNewsbyType.asp?PRType=03LAUNCHES>

Launch News

Kosmos-3M 露プレツェックから衛星 9 機 {露軍訓練実験 1+英軍事 1+中国 1+イラン 2+ESA1+独(大学)1+日(大学)1+ノルウェー1}、同時打上 10/28/2005 - Booster Blasts Off From Plesetsk with 9 Satellites

MOSCOW, October 27, 2005 - /Itar-Tass/ - A Kosmos-3M booster rocket has blasted off from Russia's Plesetsk cosmodrome to put into orbit one Russian and eight foreign satellites, an official at the launch pad in the north of the country told Itar-Tass.

"The satellites have to reach preset orbits in about half an hour; the Russian unit will be the last to separate from the booster," he noted.

Mozhayets-5, an experimental satellite, is the main payload of the Thursday launch, intended as an interface in training satellite control at the Mozhaisky military space academy.

The cluster launch includes Russia's **Mozhayets-5** and the first Iranian remote probing satellites **Mesbah** and **Sinah-1**, the official said.

Its other function is to assess the influence of radiation on avionics at

an altitude of 700 to 800 kilometers.

China DMC+4, developed by Britain's SSTL is a remote-probing unit equipped with two photographic cameras with definitions of **32 and 4 meters**.

One will function in the natural-disaster warning mode, the other will be used in cartography projects.

Britain's **TopSat** is intended to prove that a mini-satellite is capable of obtaining and transmitting pictures with a definition of up to **2.5 meters**, an official at the Russian Roskosmos aerospace agency said.

The project is funded by the British national space center and the defense ministry.

Mesbah, one of the two Iranian satellites, was manufactured by Italy's Carlo Gavazzi Space. Sinah-1 was manufactured in Iran.

SSFTI Express of the European Space Agency, with a mass of 62

kilograms, was developed within the framework of a European educational project for students of ten universities. When in orbit, it will launch **three ultra small pico-satellites each weighing one kilogram**. The pico-satellites belong to the **University of Wurzburg, Germany**, the **Tokyo University** and the Andoya rocket range /Norway/.

The two-stage booster Kosmos-3M can take payloads of up to 1,500 kilograms to 1,700-kilometer to 250-kilometer orbits. Russia has been using it since 1971.

2005 年 11 月 1 日 19:03 AstroExpo. com Top Weekly News <http://www.astroexpo.com/news/TopNewsbyType.asp?PRType=03LAUNCHES>

Launch News

露ロケット8衛星同時打上げ、メインペイロードは、レーザ光通信テスト用の露 **Mozhayets-5** 衛星

10/28/2005 - Russian Rocket Launched with Eight Satellites on Board

MOSCOW, October 27, 2005 - /RIA Novosti/ - A **Kosmos-3M** carrier rocket with a Russian **Mozhayets-5** educational satellite and seven foreign minisatellites on board was successfully launched from Russia's Plesetsk Space Center at 10:52 Moscow time, a spokesman for the Russian Federal Space Agency said Thursday.

"The launch went smoothly, and all the satellites are set to undock from the Russian carrier rocket at 11:27 Moscow time one by one with an interval of a few seconds," the source said.

"The **Mozhayets-5** is the main payload," Alexei Kuznetsov, the

official spokesman for the Russian Space Forces, said. It was designed by students of the Mozhaisky Military Space Academy to test laser-optic communications.

Two similar satellites, the **Mozhayets-3** and the **Mozhayets-4**, are already in orbit, in addition to the **Tatyana** satellite, launched in early 2005 to mark the 250th anniversary of Moscow State University.

The minisatellites being put into orbit are the **China-DMC**, Britain's **TopSat**, Iran's **SINA-1**, Norway's **Ncube-2**, Germany's **UWE-1**, Japan's **XI-V**, and the European Space Agency's **SSET Express**.

2005 年 11 月 1 日 19:03 AstroExpo. com Top Weekly News <http://www.astroexpo.com/news/TopNewsbyType.asp?PRType=03LAUNCHES>

Launch News

はじめてインターネットで作られた学生衛星の打上げが成功

10/28/2005 - First Internet-Built Student Satellite Successfully Launched

October 27, 2005 - SSETI Express, a low Earth orbit spacecraft designed and built by European university students under the supervision of ESA's Education Department, was successfully

launched this morning at 08:52 CEST from the Plesetsk Cosmodrome on a Russian Kosmos 3M launcher. At 10:29 CEST this morning, the ground control centre at the Univers - ...

露 **Mozhayets** 衛星はブースタからの切り離しに失敗

10/28/2005 - Russia Mozhayets Satellite Fails to Detach from Booster

Oct. 28, 2005 - /Xinhua/ - The Russian satellite Mozhayets-5 launched from the Plesetsk spaceport on Thursday has failed to detach from the third stage of the carrier rocket, officials at the northern cosmodrome

of Russia told the Itar-Tass news agency on Friday. "According to the latest telemetric data, the Mozhayets has not detached from the - ...

ノルウェーの最初の衛星が打上げられた

10/28/2005 - Norway's First Satellite Launched

Oct. 28, 2005 - /Xinhua/ - The first Norwegian-built satellite, the NCUBE-2, was successfully launched on Thursday morning from a Russian space base in Plesetsk, Norwegian Broadcasting (NRK)

reported. Over 80 Norwegian students have developed, tested and built the satellite, which weighs about one kilo and contains 1000 components, including a m - ...

露ロケットによる米国衛星の打上げは 12 月 1 日に設定された

10/28/2005 - Russian Rocket Launch with U.S. Satellite Set for December 1

MOSCOW, October 28, 2005 - /RIA Novosti/ - A Proton-M carrier rocket with an American satellite on board will be launched from the Baikonur space center in Kazakhstan on December 1, Russia's Federal

Space Agency said Friday. Preparations for the lift-off of the Proton-M, carrying the U.S. communications satellite Worldsat-3, began at the center - ...

低コスト英軍事地球観測衛星 TopSat マイクロサテライト (分解能 2.5m) の最初の打上げ成功

10/28/2005 - Successful First Launch for TopSat Micro-Satellite

October 27, 2005 - TopSat, the low cost micro-satellite designed and built by a QinetiQ-led consortium of British companies, was successfully launched for the first time this morning from the Plesetsk

launch site in Northern Russia. The 07:52 BST launch was the culmination of a programme that began in 2000 and which is jointly funded by the British - ...

ブレーメンの OHB 社により開発されたハイテクが地球軌道に

10/28/2005 - High Technology from Bremen Orbiting the Earth

October 27, 2005 - This morning at 08:52 CEST, a COSMOS-3M carrier carrying a multinational payload was launched on schedule. The rocket took off at the Plesetsk launching pad located 800

kilometers north-east of Moscow, successfully placing the **RUBIN-5 microsatellite** developed by OHB as well as other payloads in orbit. **RUBIN-5** is the fifth comm - ...

Falcon I 打上げアップデート

10/28/2005 - Falcon I Launch Update

Oct. 26, 2005 - The target launch date for the Falcon I maiden flight is now late November to early December from our island launch complex in the Kwajalein Atoll. All systems will be ready for flight

by the end of this week with the exception of Merlin qualification, which we are extending by four weeks for added surety. The customer for this - ...

NASA スペースシャトル進捗レポート: S05-30

10/28/2005 - NASA's Space Shuttle Processing Status Report: S05-030

Oct. 28, 2005 - NASA's Kennedy Space Center, Fla. opened on Wednesday following Hurricane Wilma. Some water entered facilities and there is minor structural damage, primarily to roofs. The Vehicle

Assembly Building lost some panels on the east and west sides. There was no damage to flight hardware. Approximately 13.6 inches of rain was recorded - ...

シーロンチはインマルサット-4 の打上げで出港

10/27/2005 - Sea Launch Departs Home Port for Inmarsat-4 Mission

LONG BEACH, Calif., October 26, 2005 - The Odyssey Launch Platform and the Sea Launch Commander have departed Home Port in Long Beach, Calif., for Sea Launch's fourth mission of the year. The

Sea Launch team is preparing to launch the Inmarsat-4 (I-4) communications satellite on Nov. 4, at the opening of a 30-minute launch window, at 6:22:54 am Pac - ...

SSETI Express, 打上げまでにあと1日

10/27/2005 - SSETI Express - One Day to Launch

October 26, 2005 - Tension is mounting among students involved in the SSETI Programme as only one day now remains to the launch, by a Kosmos 3M rocket from Plesetsk Cosmodrome, of the student-built

satellite - **SSETI Express**. The last few weeks particularly have been an emotional roller coaster ride for the 15 teams of university students involv - ...

ESA は金星ミッションを延期

10/26/2005 - European Space Agency Postpones Mission to Venus

Oct. 23, 2005 - The European Space Agency has postponed Wednesday's scheduled launch of the Venus Express after engineers discovered the spacecraft was contaminated by insulation from the

Soyuz rocket launcher. Mission controllers are optimistic the mission to study the scorching atmosphere of the planet Venus will be back on track shortly. - ...

SSETI Express, 打上げまでにあと2日

10/26/2005 - SSETI Express - Two Days to Launch

October 25, 2005 - Tension is mounting among students involved in the SSETI Programme as only two days now remain to the launch, by a Kosmos 3M rocket from Plesetsk Cosmodrome, of the student-built

satellite - SSETI Express. The last few weeks particularly have been an emotional roller coaster ride for the 15 teams of university students involv - ...

露 Rokot の打上げ禁止、解禁される

10/26/2005 - Ban on Russian Rokot Launches Lifted

MOSCOW, October 25, 2005 - /RIA Novosti/ - The ban on launches of Russian Rokot boosters, which were blamed for the recent loss of a 140-million euro satellite belonging to the European Space Agency

(ESA), has been lifted, a spokesman for the Russian Space Forces said Tuesday. "The cause of the crash of the Rokot booster [that was used to launch - ...

ベラルーシの最初の衛星(リモセン用)が2006年3月に打上げられる予定

10/26/2005 - First Belarusian Satellite to be Launched in March 2006

MOSCOW, October 25, 2005 - /RIA Novosti/ - The first Belarusian national remote sensing satellite BelKA (Belarusian spacecraft) will be launched in March 2006, the Belarusian Embassy in Moscow said

Tuesday. The satellite, which has a maximum resolution of two meters, is designed for cartographic, metrological and agricultural surveys and will or - ...

欧州の金星探査機がバイコヌールから11月に打上げられるかもしれない

10/26/2005 - European Venus Probe Could be Launched from Baikonur in November

MOSCOW, October 25, 2005 - /Itar-Tass/ - The European probe Venus-Express could be launched from the Baikonur cosmodrome in the period from November 6 to 9, but a date is still uncertain.

"Representatives of the European Space Agency (ESA) propose November 6 or 7 for the launch. The Russian for their part propose November 9, as November 6 and 7 - ...

NASA は SSME スペース・シャトルのメイン・エンジンの試験に成功

10/26/2005 - NASA Successfully Tests Space Shuttle Main Engine

WASHINGTON, Oct. 25, 2005 - /PRNewswire/ - For the first time since Hurricane Katrina, NASA's Stennis Space Center, Miss., returned to its primary business today, testing space shuttle main

engines. Engineers successfully test-fired an engine for 520 seconds; the time it takes a shuttle to reach orbit. Today's engine test is an indication t - ...

Venus Express は神秘に満ちた金星への打上げにセットされ待機

10/24/2005 - Venus Express Set for Launch to the Cryptic Planet

October 21, 2005 - A dense curtain of mysteries surrounding Venus, the hot and hazy sister planet to Earth, awaits to be opened after the launch of Venus Express, the next planetary probe of the European

Space Agency. On Wednesday, 26 October 2005, the sky over the Baikonur Cosmodrome, Kazakhstan, will be illuminated by the blast from a Soyuz-F - ...

Venus Express の打上げ数日遅れる

10/24/2005 - Venus Express Launch Postponed Several Days

October 21, 2005 - During the final preparations for the launch of the European Space Agency's Venus Express spacecraft by a Soyuz-Fregat launcher, contamination was detected inside the

launcher's fairing. Starsem and ESA have therefore decided to carry out additional checks, which will postpone the originally scheduled launch date of Wednesday - ...

Venus-Express を搭載したソユーズロケット打上げに配置される

10/24/2005 - Soyuz Rocket Carrying Venus-Express to be Installed for Launch

MOSCOW, October 21, 2005 - /Itar-Tass/ - A state commission has permitted to bring a Soyuz rocket carrying the Venus-Express European interplanetary probe to a Baikonur launch pad, a spaceport

source told Itar-Tass on Friday. "The Soyuz-FG rocket will be moved to the 31st launch pad of Baikonur early on Saturday morning," the source said. T - ...

Venus-Express ブースタの熱絶縁の欠陥で打上げ延期される

10/24/2005 - Venus Express Launch Postponed Due to Booster Insulation Defect

MOSCOW, October 22, 2005 - /Itar-Tass - Launching of the European Venus Express interplanetary spacecraft is postponed for a few days, a Baikonur source told Itar-Tass on Saturday. The launch of

the spacecraft with a Russian Soyuz-FG rocket from the Baikonur cosmodrome to Venus was planned for October 26. The rocket has a Fregat booster uni - ...

2005年10月28日 4:05 AstroExpo.com Monthly e-newsletter

欧州宇宙機構概要 2005 [European Space Agency \(ESA\) Overview 2005](#)

The European Space Agency (ESA), established in 1975, is an inter-governmental organisation dedicated to exploration of space currently with 17 member states. ESA has a staff (excluding sub-contractors and national space agencies) of approximately 1,900 with a budget of €2.977 billion for 2005. Member states include Austria, Belgium, Denmark, Finland, France, Germany, Greece,

<http://www.astroexpo.com/news/articlesdetail.asp?ID=442&ListType=Newsletter>

Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom; Canada and Hungary also participate in selected ESA programs. The financial contribution of each member is determined by the projects it supports, and no member may undertake a project without inviting ESA's participation.

2005年10月28日 4:05 AstroExpo.com Monthly e-newsletter

ロシア宇宙庁概要 2005 [Russian Federal Space Agency \(FSA\) Overview 2005](#)

The Russian Federal Space Agency (FSA), formerly the Russian Aviation and Space Agency is the government agency responsible for Russia's space science program and general aerospace research. The FSA actual budget is difficult to determine given the variations in appropriations and allocations of budgets. The published budget is approximately \$8-9B depending on exchange rates, however the

allocation of the actual budget varies on average between as much as 25-50%. Since the end of the Cold War there have been strong international ties created for space on the military, civil, and commercial levels. Both commercial ventures by Boeing (Sea Launch) and Lockheed Martin (ILS) have strong ties to the Russian industry.

2005 年 10 月 28 日 4:05 AstroExpo.com Monthly e-newsletter

中国宇宙庁概要 2005 [China National Space Administration \(CNSA\) Overview 2005](#)

Though China has been involved in space research and activities since the 1950's, the China National Space Administration was not officially established until 1993. Prior to 1993 most of the activities were operated through military related agencies. The Chinese National Space Administration (CNSA) and the China Aerospace Corporation (CASC) were established in June 1993. These agencies have become the primary interfaces to the international community for commercial and civil space. By the end of 1994, CASC and CNSA had assumed the authority previously held by the Ministry of Aerospace Industry.

<http://www.astroexpo.com/news/articlesdetail.asp?ID=446&ListType=Newsletter>

While these agencies have been set up to promote space activity that would be profit based, and independent of government funding, several experts still point to close ties with the Military agencies through their program direction and funding sources. Although the operational structures and mission statements of the CNSA and CASC differ, they are in effect a single organization, which splits responsibilities for policy making and executive activities. The two organizations share personnel as well as responsibilities. The budgets for these two civil agencies remain unknown.

[Aerospace Daily & Defense Report Nov 1, 2005](#)

グローバルホークのエンジン問題で海軍のテスト計画が遅れる

[Engine problem with Global Hawk delays Navy test program](#)

An engine flameout problem that occurred on two separate Air Force-owned Global Hawks over the summer has contributed to a

delay with the Navy's Global Hawk Maritime ...

輸送艦に海上配備の X バンドレーダが搭載される予定

[Sea-Based X-Band Radar to be loaded on transport vessel](#)

The U.S. Missile Defense Agency's giant ocean-going radar is about to get set for its first long journey. ...

NASA は 'refuse-to-crash' フライト試験に乗出す

[NASA gearing up for 'refuse-to-crash' flight-tests](#)

NASA's Langley Research Center in Hampton, Va., is gearing up to begin flight-tests next summer using a small scaled model of an

airliner to evaluate "refuse-to-crash" technology. ...

CSC 社は地球観測の連合に加わる

[CSC joins alliance for Earth observation](#)

Computer Sciences Corp. of El Segundo, Calif., has joined the Alliance for Earth Observations, an initiative of the Institute for

Global Environmental Strategies to aid private-sector participation ...

議会で空母 JFK 支援者は退役の可能性を防衛する

[JFK supporters in Congress gird for possible retirement](#)

Congressional supporters of U.S. Navy aircraft carriers, and the USS John F. Kennedy in particular, still are pushing for maintaining or

even increasing the fleet size while ...

米空軍は F/A-22 の訓練配備を喜ぶ

[USAF pleased with F/A-22's first practice deployment](#)

The first practice deployment of the F/A-22 Raptor has given U.S.

Air Force crews increased confidence in the stealthy fighter, an Air

Force spokeswoman said Oct. 31. . . .

グッドリッチ社は'Sensors Unlimited'社の買収を完了

Goodrich Corp. completes buy of Sensors Unlimited

COMPLETED: Goodrich Corp. has completed its acquisition of Sensors Unlimited, the company said Oct. 31. The \$60 million cash deal includes a 39,000-square-foot leased facility in Princeton, . . .

オーストラリアの軍は2個の訓練演習を開始

Australian military begins two training exercises

Australia's navy, army, and air force began a pair of military exercises on Oct. 31, the country's defense ministry said. . . .

国会議員はNASAと国防省の予算の打合せに動く模様

Hill moving toward NASA, DOD spending conferences

Negotiators from the House and Senate this week could move closer to meeting officially to work out differences between their spending bills funding NASA and the Defense . . .

スペースデブ社はStarsys社を\$9Mの現金-株取引で買収予定

SpaceDev to buy Starsys in \$9M cash-stock deal

Poway, Calif.-based SpaceDev will buy Boulder, Colo.-based Starsys Research Corp. in a deal worth \$9 million, the companies said Oct. 31. . . .

学生の製作したSSETI衛星はパワーの故障を起こす

Student-built SSETI satellite suffers power failure

The student-built SSETI Express satellite has suffered an electrical power failure that has rendered it inoperable and cut short its mission. . . .

チェコの航空宇宙企業アエロボドチョディは\$33.1Mの価値があるとファイナンシャル・アドバイザー発言

Aero Vodochody worth \$33.1M, Deloitte says

PRAGUE -- Czech aerospace company Aero Vodochody was worth CZK 814 million (USD \$33.1 million) at the end of 2004, according to an assessment by financial advisor . . .

Aerospace Daily & Defense Report Oct 31, 2005

ボーイングはイタリアと日本の空中給油機で進展が見られると発言

Boeing says it's making progress on tankers for Italy, Japan

BOEING TANKERS: Although the U.S. Air Force's tanker modernization plans remain up in the air, Boeing officials say they are making progress meeting foreign orders for their . . .

新MDAミサイル防衛計画は冷戦C4ISRシステムを増強する

New MDA plan boosts Cold War C4ISR systems

LEGACY BOOST: A new National Plan to Achieve Maritime Domain Awareness calls for the Homeland Security and Defense departments "to reorient and integrate relevant Cold War command, . . .

学生の製作したSSETI宇宙機は10月27日打上げに向け元気に作動中

Student-built SSETI spacecraft up and running after Oct. 27 launch

SSETI: The student-built SSETI Express satellite is up and running following its Oct. 27 launch from the Plesetsk Cosmodrome on a Russian Cosmos 3M rocket. Roughly the . . .

NASA は 11 月 2 日に ISS 運用の 5 周年記念を祝う

NASA celebrates five years of ISS operations on Nov. 2

FIVE YEARS: NASA will celebrate the fifth anniversary of the International Space Station on Nov. 2, the date when the first ISS

crew arrived at the orbital ...

欧州ロボットアームは宇宙ステーションの位置変更に対して準備中

European robotic arm prepares for space station location change

REVAMPING: The European Space Agency is revamping the European Robotic Arm for the International Space Station so it can

be launched on a Russian Proton rocket instead ...

ガリレオ・テスト・ベッド衛星は打上げ準備中

Galileo test bed satellites preparing for launch

GETTING READY: Two experimental pathfinder spacecraft for Europe's planned Galileo satellite navigation system are in the final

stages of preparation for launch, the European Space Agency says. ...

NOAA は GOES-R 衛星の契約を Northrop/Raytheon チームと結ぶ

NOAA awards GOES-R contract to Northrop/Raytheon team

GOES-R: The National Oceanic and Atmospheric Administration has awarded program definition and risk reduction contracts for the

Geostationary Operational Enviro-

GPS III の提案要求がまもなく予定されている、空軍発言

GPS III request for proposals expected soon, Air Force says

The request for proposals for the next phase of the Global Positioning System III program will be released by the Air Force in

December or January, with ...

日本に原子力空母を母港化することは、通常型空母の JFK は退役するだろう

Japan to base nuclear carrier; could mean JFK retirement

The U.S. Navy announced late Oct. 27 that Japan has agreed to base a nuclear U.S. aircraft carrier, allowing the USS Kitty Hawk to come

stateside and ...

国防総省は J-UCAS 無人機を来月より就役移行へ

DARPA to transition J-UCAS to services next month

The Defense Advanced Research Projects Agency announced this week that it will transfer leadership of the **Joint Unmanned Combat**

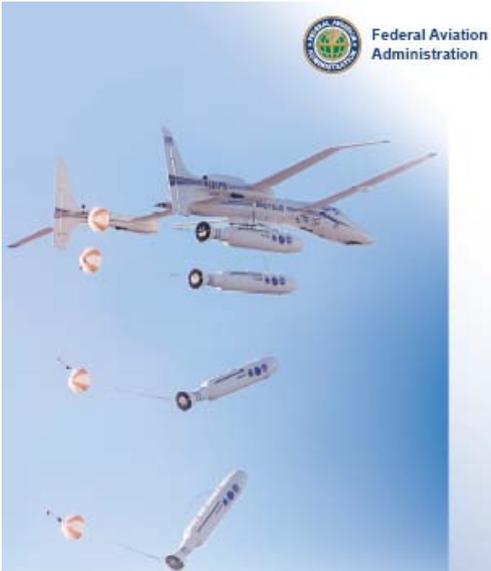
Air Systems (J-UCAS) program to the Navy and ...

ギリシャは米国より F-16 購入を求める

Greece seeks to buy F-16s from U.S.

F-16 PURCHASE: Greece's government is seeking to buy 40

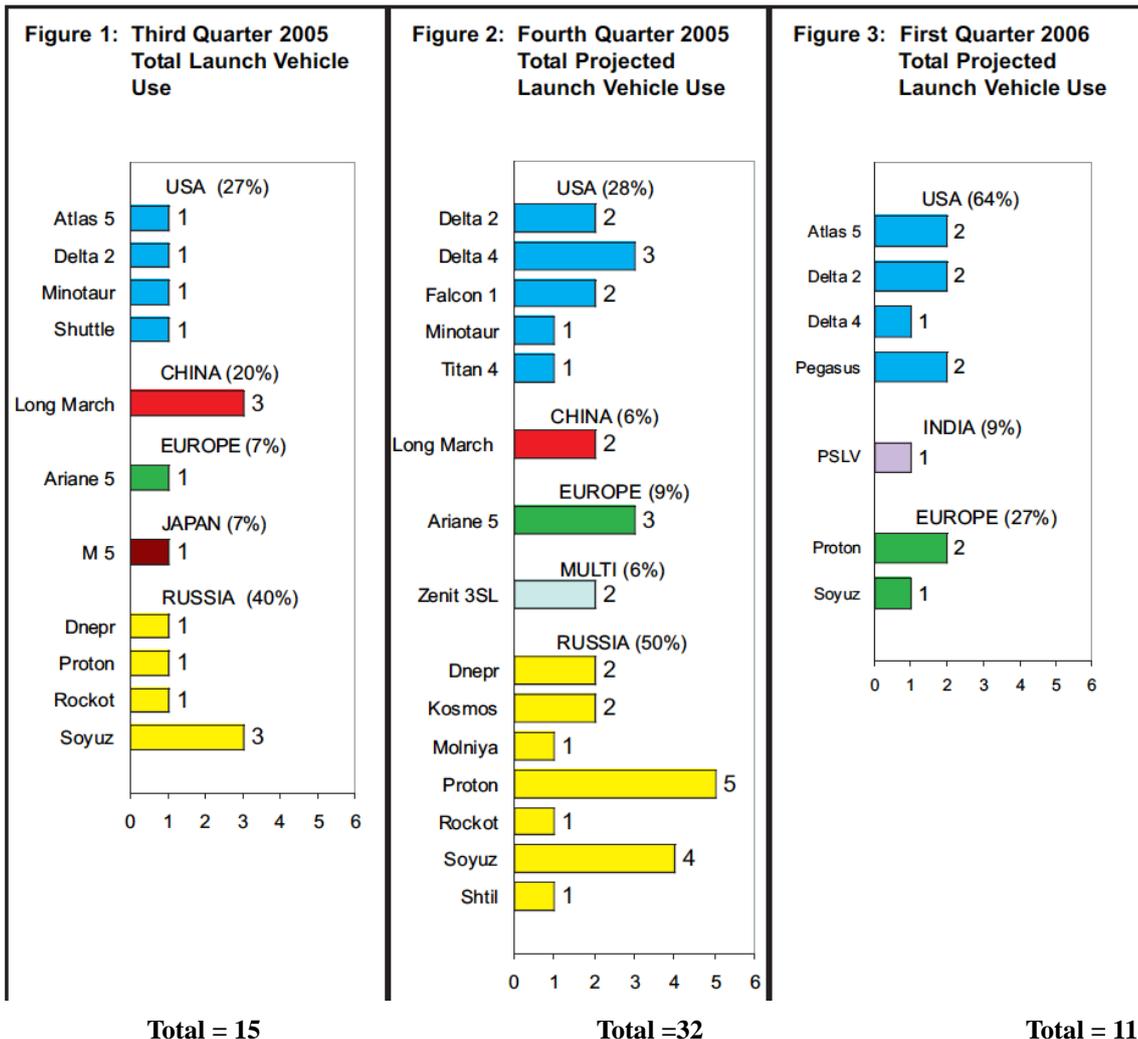
F-16C/D Block 52+ aircraft and related equipment and services from the United States, the Defense Security Cooperation Agency ...



Quarterly Launch Report 4th Quarter 2005

Featuring Launch results from the 3rd Quarter 2005 and
Forecasts for the 4th Quarter 2005 and 1st Quarter 2006.

Vehicle Use
(July 2005 – March 2006)

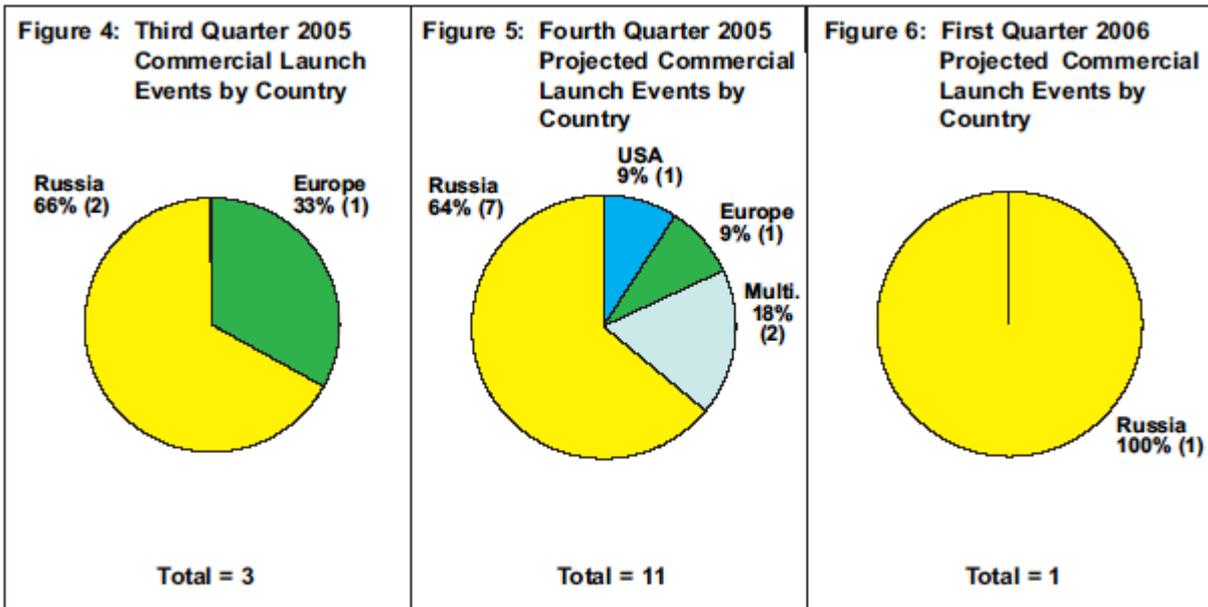


Figures 1-3 show the total number of orbital and suborbital launches (commercial and government) of each launch vehicle and the resulting market share that occurred in the third quarter of 2005, as well as projecting this information for the fourth quarter of 2005 and first quarter of

2006. The launches are grouped by the country in which the primary vehicle manufacturer is based. Exceptions to this grouping are launches performed by Sea Launch, which are designated as multinational.

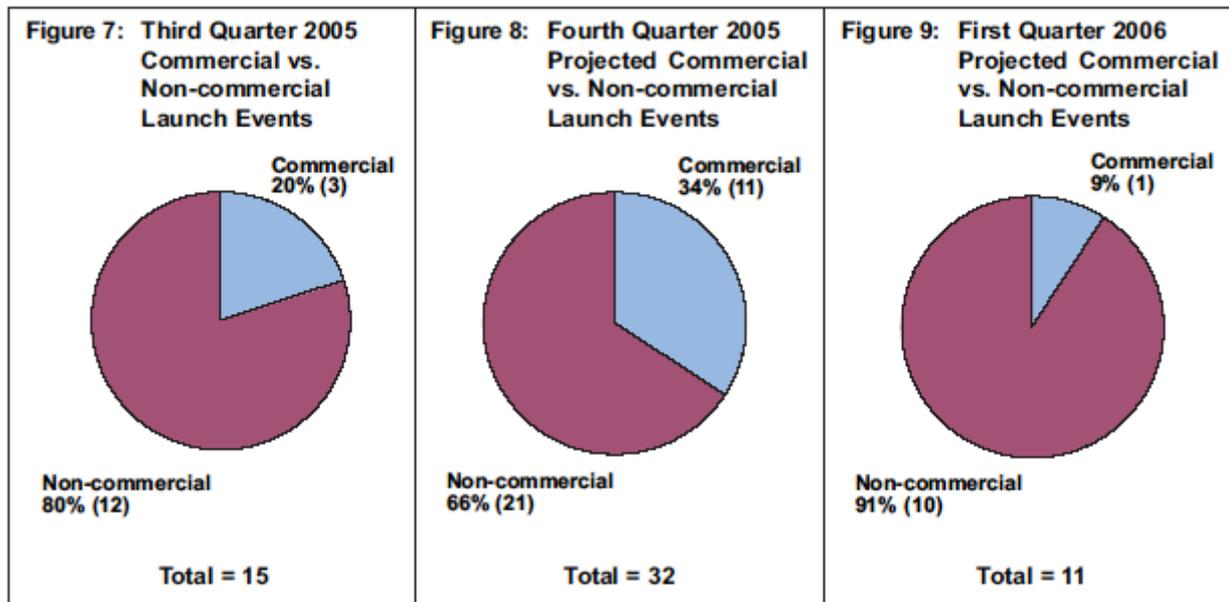
Note: Percentages for these and subsequent figures may not add up to 100 percent due to rounding of individual values.

Commercial Launch Events by Country
(July 2005 – March 2006)



Figures 4-6 show all commercial orbital and suborbital launch events that occurred in the third quarter of 2005 and that are projected for the fourth quarter of 2005 and first quarter of 2006.

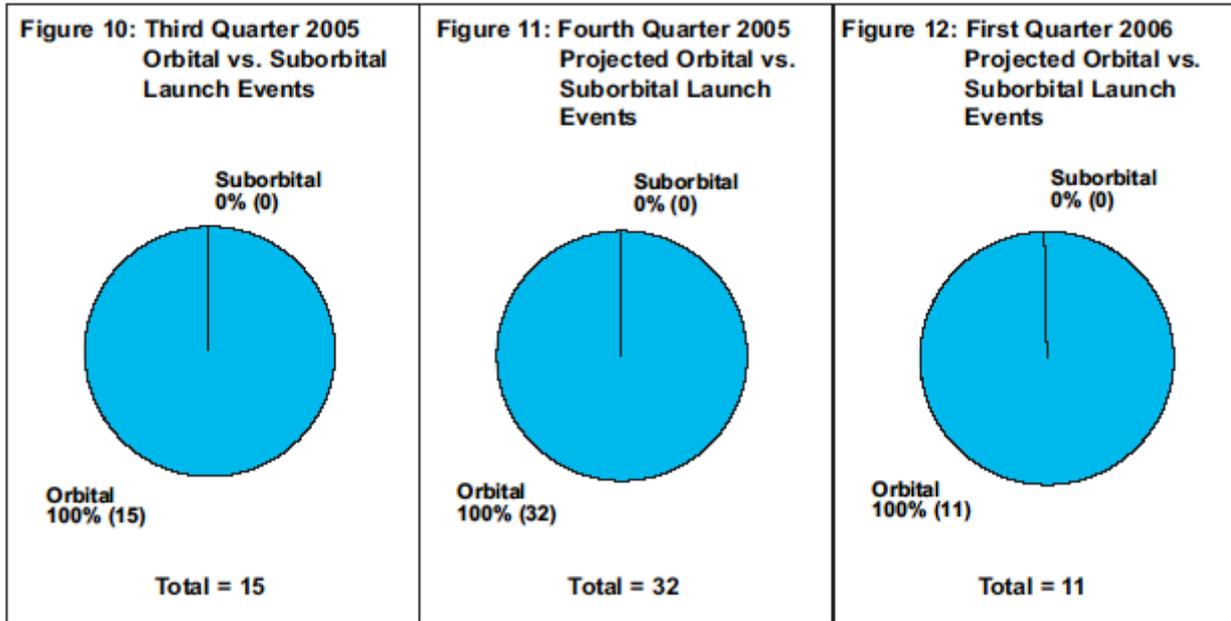
Commercial vs. Non-commercial Launch Events
(July 2005 – March 2006)



Figures 7-9 show commercial vs. non-commercial orbital and suborbital launch events that occurred in the third quarter of 2005 and that are projected for the fourth quarter of 2005 and first quarter of 2006.

Orbital vs. Suborbital Launch Events

(July 2005 – March 2006)



Figures 10-12 show orbital vs. suborbital launch events that occurred in the third quarter of 2005 and that are projected for the fourth quarter of 2005 and first quarter of 2006.

Launch Successes vs. Failures

(July 2005 – March 2006)

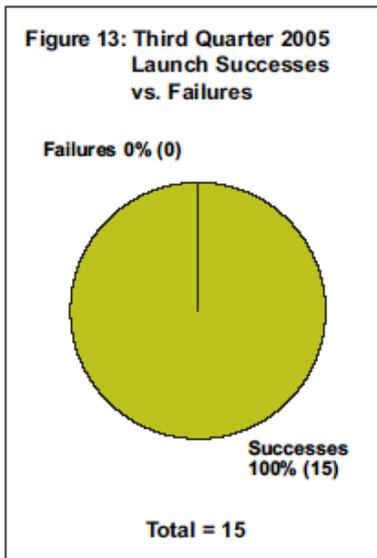
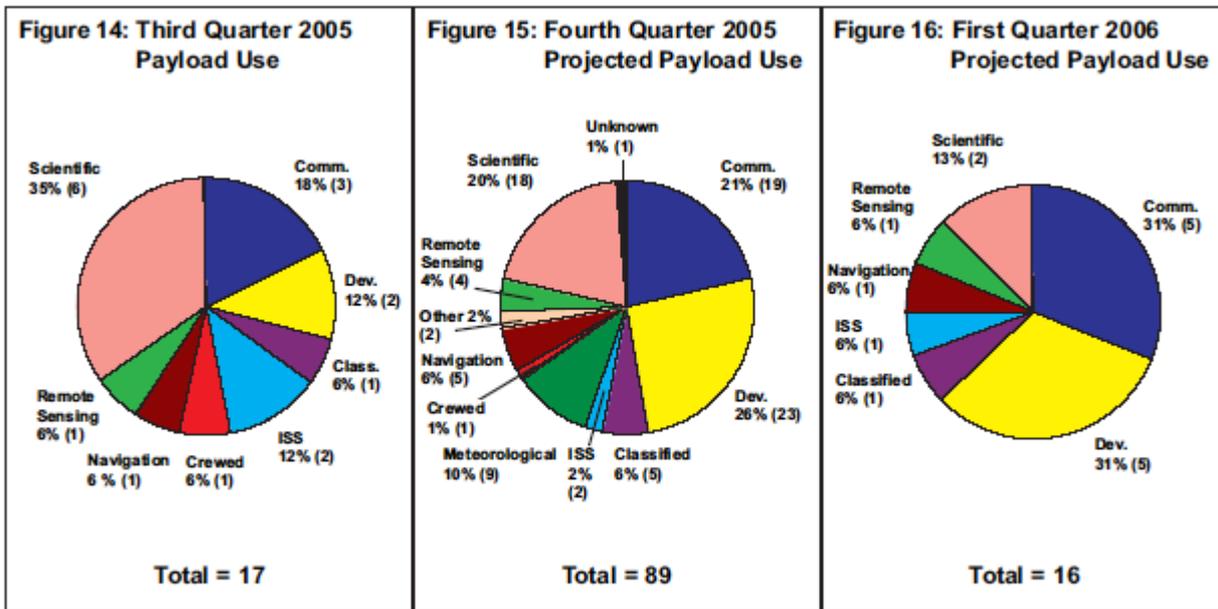


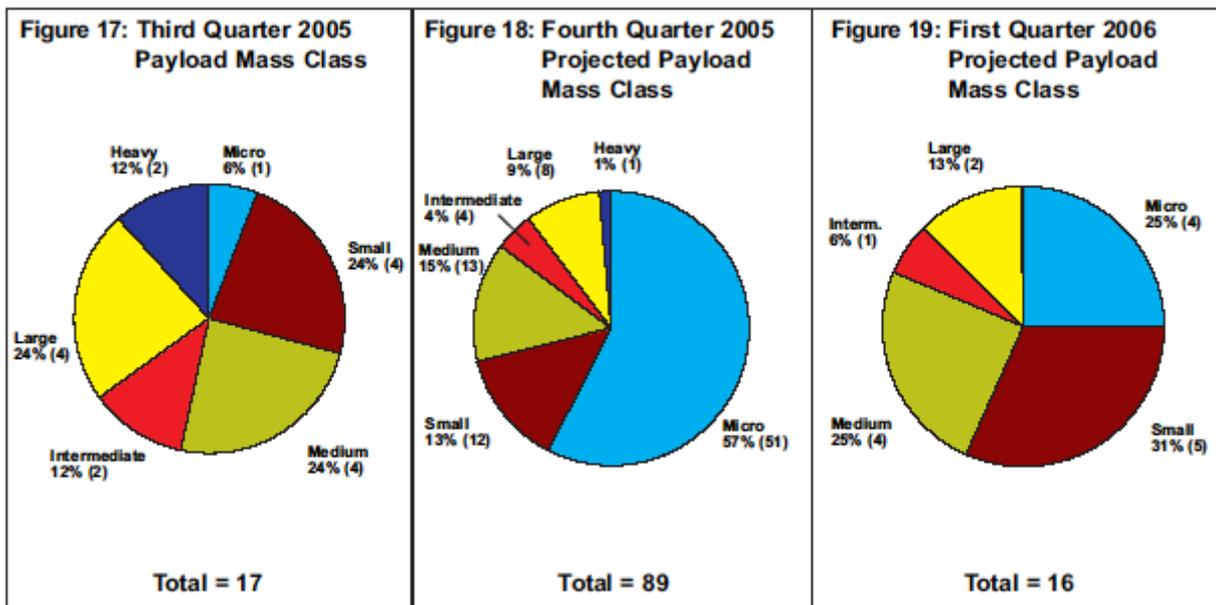
Figure 13 shows orbital and suborbital launch successes vs. failures for the period from July 2005 to September 2005. Partially-successful orbital launch events are those where the launch vehicle fails to deploy its payload to the appropriate orbit, but the payload is able to reach a useable orbit via its own propulsion systems. Cases in which the payload is unable to reach a useable orbit or would use all of its fuel to do so are considered failures.

Payload Use (Orbital Launches Only)
(July 2005 – March 2006)



Figures 14-16 show total payload use (commercial and government), actual for the third quarter of 2005 and projected for the fourth quarter of 2005 and first quarter of 2006. The total number of payloads launched may not equal the total number of launches due to multi-manifesting, i.e., the launching of more than one payload by a single launch vehicle.

Payload Mass Class (Orbital Launches Only)
(July 2005 – March 2006)



Figures 17-19 show total payloads by mass class (commercial and government), actual for the third quarter of 2005 and projected for the fourth quarter of 2005 and first quarter of 2006. The total number of payloads launched may not equal the total number of launches due to multi-manifesting, i.e., the launching of more than one payload by a single launch vehicle. Payload mass classes are defined as Micro: 0 to 91 kilograms (0 to 200 lbs.); Small: 92 to 907 kilograms (201 to 2,000 lbs.); Medium: 908 to 2,268 kilograms (2,001 to 5,000 lbs.); Intermediate: 2,269 to 4,536 kilograms (5,001 to 10,000 lbs.); Large: 4,537 to 9,072 kilograms (10,001 to 20,000 lbs.); and Heavy: over 9,072 kilograms (20,000 lbs.).

Commercial Launch Trends (Orbital Launches Only)

(October 2004 – September 2005)

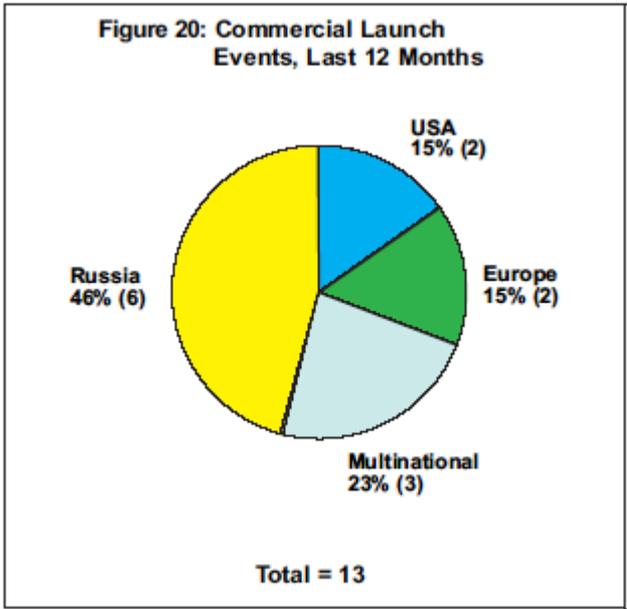


Figure 20 shows commercial orbital launch events for the period of October 2004 to September 2005 by country.

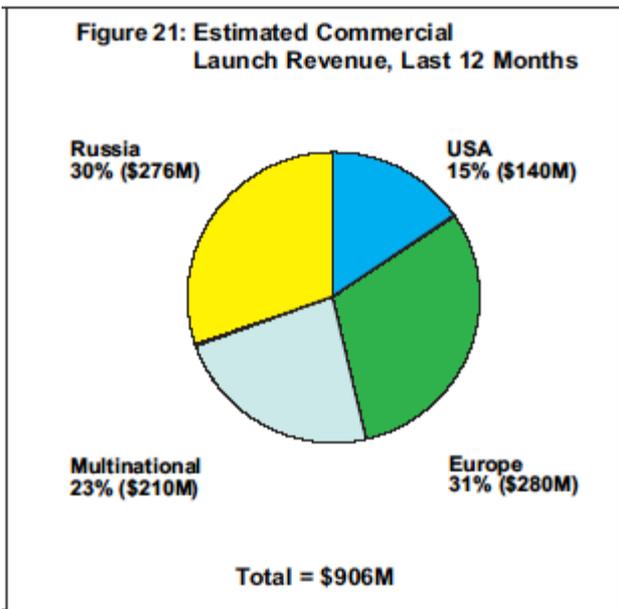


Figure 21 shows estimated commercial launch revenue for orbital launches for the period of October 2004 to September 2005 by country.

Commercial Launch Trends (Suborbital Launches Only)

(October 2004 – September 2005)

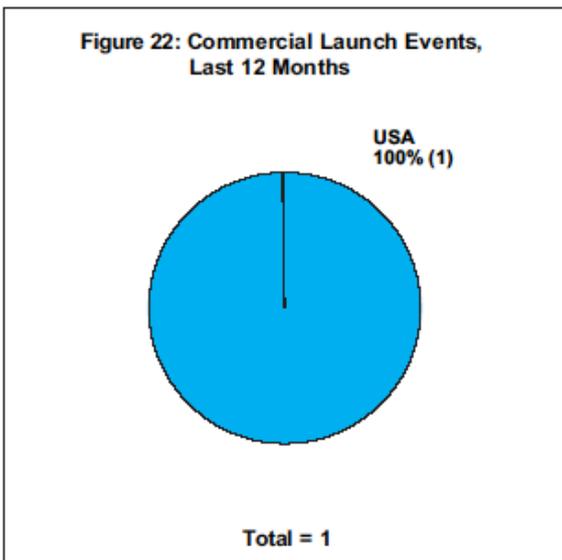


Figure 22 shows commercial suborbital launch events for the period of October 2004 to September 2005 by country.

Commercial Launch History

(January 2000 – December 2004)

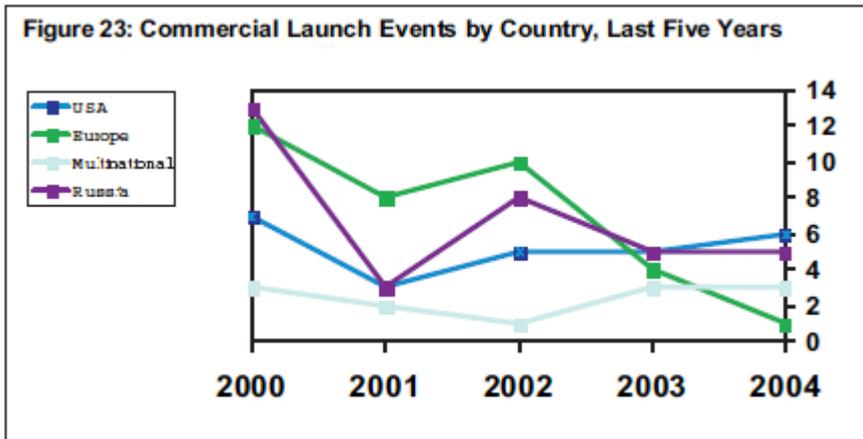


Figure 23 shows commercial launch events by country for the last five full years.

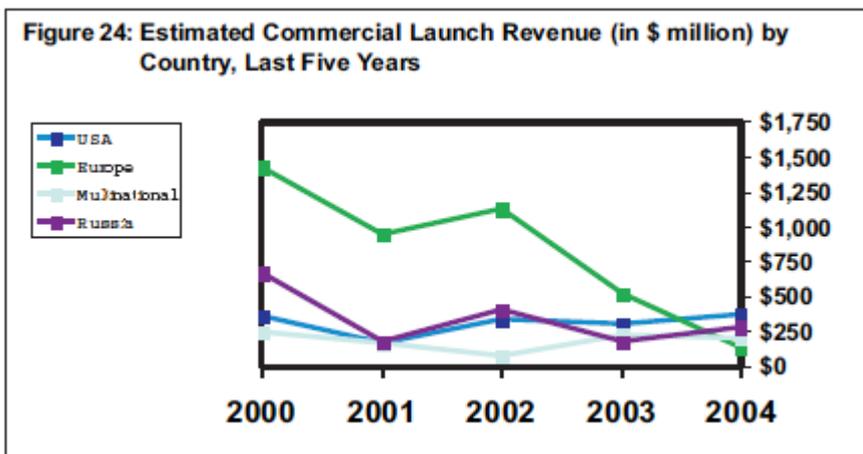


Figure 24 shows estimated commercial launch revenue by country for the last five full years.

3rd Quarter 2005

Third Quarter 2005 Orbital and Suborbital Launch Events								
Date	Vehicle	Site	Payload or Mission	Operator	Use	Vehicle Price	L	M
7/6/2005	Long March 2D	Jiuquan	SJ 7	China Academy of Space Technology (CAST)	Development	\$22.5M	S	S
7/10/2005	M 5	Uchinoura	Astro-E2	Japan Aerospace Exploration Agency (JAXA)	Scientific	\$50M	S	S
7/26/2005	Shuttle Discovery	Kennedy Space Center (KSC)	STS 114	National Aeronautics and Space Administration (NASA)	Crewed	N/A	S	S
8/2/2005	Long March 2C	Jiuquan	ISS LF-1 FSW 21	NASA China National Space Administration (CNSA)	ISS Scientific	\$22.5M	S	S
8/11/2005	Ariane 5G	Kourou	* Thaicom 4 (IPstar)	Shin Satellite Public Co.	Communications	\$140M	S	S
8/12/2005	Atlas 5 401	Cape Canaveral Air Force Station (CCAFS)	Mars Reconnaissance Orbiter	NASA	Scientific	\$75M	S	S
8/14/2005	Soyuz	Baikonur	* Galaxy 14	Pan American Satellite Corp. (Panamsat)	Communications	\$40M	S	S
8/23/2005	Dnepr 1	Baikonur	Kirari (OICETS) Reimei (INDEX)	JAXA JAXA	Scientific Scientific	\$9.5M	S	S
8/26/2005	Rocket Long	Plesetsk	Monitor E1	Roscosmos	Remote Sensing	\$13.5M	S	S
8/29/2005	Long March 2D	Jiuquan	FSW 22	CAST	Scientific	\$22.5M	S	S
9/2/2005	Soyuz	Baikonur	Kosmos 2415	Russian Ministry of Defense (MoD)	Classified	\$40M	S	S
9/8/2005	Soyuz	Baikonur	Progress ISS 19P	Roscosmos	ISS	\$40M	S	S
9/9/2005	Proton M	Baikonur	* Anik F1R	Telesat Canada	Communications	\$70M	S	S
9/22/2005	Minotaur	Vandenberg Air Force Base (VAFB)	STP R1	U.S. Air Force (USAF)	Development	\$14.5M	S	S
9/25/2005	Delta 2 7925-10	CCAFS	Navstar GPS 2RM-1	USAF	Navigation	\$50M	S	S

4th Quarter

Date	Vehicle	Site	Operator		Use	Vehicle Price
10/1/2005	uz	Baikonur	Soyuz ISS 11S	Roscosmos ISS		\$40M
10/8/2005	V Rockot	Plesetsk	Cryosat	European Space Agency (ESA)	Remote Sensing	\$13.5M
10/13/2005	Ariane 5G	Kourou	Syracuse 3 A	Delegation Generale pour l'Armement (DGA)	Communications	\$140M
			Galaxy 15	Panamsat	Communications	
10/13/2005	LongMarch 2F	Jiuquan	Shenzhou 6	CNSA Crewed		\$60M
10/19/2005	Titan 4B	CCAFS	NRO L-20	National Reconnaissance Office (NRO)	Classified	\$400M
10/26/2005	Soyuz	Baikonur	Venus Express	ESA	Scientific	\$40M
10/26/2005	Delta 2 7420	VAFB	Calipso	NASA	Scientific	\$50M
			CloudSat	NASA	Scientific	
10/27/2005	V Kosmos 3M	Plesetsk	Topsat	British Defense Ministry	Development	\$12M
			China DMC+4	Beijing Landview Mapping Information Technology, Ltd.	Remote Sensing	
			UWE-1	University of Wurzburg	Scientific	
			Ncube-2	Norwegian Student Satellite Project	Development	
				University of Tokyo ISSL	Development	
			Mesbah	Telecommunications Company of Iran	Communication	
			Sinah-1	Iran	Classified	
10/2005	Dnepr 1	Baikonur	EgyptSat	National authority for Remote Sensing and Space Sciences	Remote Sensing	
ICEcube 1			Cornell University	Scientific		
ICEcube 2			Cornell University	Scientific		
SaudiComsat 3			Space Research Institute	Communications		
SaudiComsat 4			Space Research Institute	Communications		
SaudiComsat 5			Space Research Institute	Communications		
SaudiComsat 6			Space Research Institute	Communications		
SaudiComsat 7			Space Research Institute	Communications		
AKS 1			Centre National d'Etudes Spatiales (CNES)	Development		
AKS 2			CNES	Development		
HAUSat 1			Hankuk Aviation University	Scientific		
KUTESat			Kansas University	Scientific		
Polysat 2			CalPoly Aerospace Engineering	Development		
			University of Illinois	Development		
			University of Hawaii	Scientific		
			Montana State University	Scientific		
Ncube			Norwegian Student Satellite Project	Scientific		
Sacred			University of Arizona	Scientific		
Cubesat TBA			The Aerospace Corporation	Development		
Rincon 1			University of Arizona	Scientific		
Saudisat 3			Space Research Institute	Scientific		
Polysat 1			CalPoly Aerospace Engineering	Development		
SEEDS			Nihon University	Scientific		
10/2005	Delta 4 Medium-Plus	VAFB	NRO L-22	Defense of Defense (DoD)	Classified	\$70M
10/2005	Falcon 1	Kwajalein	Falconsat 2 Celestis 5	DoD Celestis, Inc. Other	Development	\$6M
10/2005	Molniya	Plesetsk	Kosmos TBA 1	Russian MoD	Classified	\$35M

4th Quarter 2005 Footnotes

'check' : Denotes commercial launch, defined as a launch that is internationally competed or FAA-licensed.

'+' : Denotes FAA-licensed launch.

‘*’: Denotes a commercial payload, defined as a spacecraft that serves a commercial function or is operated by a commercial entity.

Notes: All prices are estimates, and vary for every commercial launch. Government mission prices may be higher than commercial prices.

Ariane 5 payloads are usually multi-manifested, but the pairing of satellites scheduled for each launch is sometimes undisclosed for proprietary reasons until shortly before the launch date.

4th Quarter (続き)

Date	Vehicle	Site	Operator		Use	Vehicle Price
11/5/2005	V+ Delta 4 Medium- Plus (4,2)	CCAFS	GOES N	National Oceanic and Atmospheric Administration (NOAA)	Meteorological	\$70M
11/20/2005	Shtil	Barents Sea	Kompass 2	Russia - TBA	Scientific	\$1.5M
11/2005	V + Zenit 3SL	Odyssey Launch Platform	Inmarsat-4 F2	Inmarsat	Communications	\$70M
11/2005	V Proton M	Baikonur	Astra 1KR	SES Astra	Communications	\$70M
11/2005	Delta 2 7920	VAFB	NRO L-21	NRO	Classified	\$50M
11/2005	V Ariane 5 ECA	Kourou	Telkom 2 Spaceway 2	PT Telekomunikasi Hughes Network Systems	Communications Communications	\$140M
12/1/2005	Delta 4 Medium	VAFB	DMSP 5D-3-F17	DoD	Meteorological	\$70M
12/1/2005	V Proton M	Baikonur	AMC 13	SES Americom	Communications	70M
12/5/2005	V Dnepr 1	Baikonur	BelKA PolySat 3 KiwiSat JAESat Master Satellite KatySat 1 UCISat 1 Funsat AtmoCube CanX-2 UniSat 4 SaudiSat 4 Baumanets CubeSat RAFT ALMASat 1	National Academy of Sciences of Belarus Cal Poly Aerospace Engineering Amsat ZL Australian Space Research Institute Stanford University University of California Irvine University of Florida University of Trieste University of Toronto University of Rome Space Research Institute (S.A.) Bauman Moscow State Technical University US Naval Academy University of Bologna	Remote Sensing Development Communications Development Development Development Scientific Development Development Scientific Development Development Development Development	\$9.5M
12/6/2005	Falcon 1	Kwajalein	TacSat 1 Celestis 6	USAF Celestis, Inc.	Development Other	\$6M
12/8/2005	Ariane 5G	Kourou	Insat 4A MSG 2	Indian Space Research Organization (ISRO) Eumetsat	Communications Meteorological	\$140M
12/15/2005	Kosmos 3M	Plesetsk	Gonets D1M 1 Gonets D1M 2	Smolsat Smolsat	Communications Communications	\$12M
12/21/2005	Soyuz	Baikonur	Progress ISS 20P	Roscosmos	ISS	\$40M
12/25/2005	Proton K	Baikonur	Glonass K R1 Glonass K R2 Glonass K R3	Russian MoD Russian MoD Russian MoD	Navigation Navigation Navigation	\$72.5M
12/26/2005	Soyuz	Baikonur	Galileo System Test Bed 1	ESA	Navigation	\$40M
12/29/2005	Proton M	Baikonur	KazSat 1	Kazakhstan	Communications	\$75M
12/2005	V Proton M	Baikonur	Measat 3	Binariang Satellite Systems Sdn Bhd	Communications	\$70M
12/2005	Minotaur	VAFB	Formosat 3 A Formosat 3 B Formosat 3 C Formosat 3 D Formosat 3 E	Taiwanese National Space Program Office (NSPO) NSPO NSPO NSPO NSPO	Meteorological Meteorological Meteorological Meteorological Meteorological	\$14.5M

4Q/2005	V + Zenit 3SL	Odyssey Launch Platform	Formosat 3 F Sea Launch Payload TBA	NSPO TBA	Meteorological TBA	\$70M
2005	Long March 3A	Xichang	Beidou 2A (Compass 1)	CNSA	Navigation	\$50M

4th Quarter 2005 Footnotes

'check': Denotes commercial launch, defined as a launch that is internationally competed or FAA-licensed.

'+' : Denotes FAA-licensed launch.

'*': Denotes a commercial payload, defined as a spacecraft that serves a commercial function or is operated by a commercial entity.

Notes: All prices are estimates, and vary for every commercial launch. Government mission prices may be higher than commercial prices.

Ariane 5 payloads are usually multi-manifested, but the pairing of satellites scheduled for each launch is sometimes undisclosed for proprietary reasons until shortly before the launch date.

1st Quarter 2006

Date	Vehicle	Site	Payload or Mission	Operator	Use	Vehicle Price
1/11/2006	Atlas 5 551	CCAFS	New Horizons	NASA	Scientific	\$92.5M
1/31/2006	Delta 4 Heavy	CCAFS	DSP 23	USAF	Classified	\$155M
1/2006	Delta 2 7925-10	CCAFS	Navstar GPS 2RM-2	USAF	Navigation	\$50M
1/2006	PSLV	Satish Dhawan Space Center	Cartosat 2	ISRO	Remote Sensing	\$20M
2/28/2006	Pegasus XL	VAFB	SRE 1	ISRO	Development	\$16M
			Anusat	ISRO	Communications	
			Space Technology 5A	NASA	Development	
			Space Technology 5B	NASA	Development	
2/2006	Proton K	Baikonur	* Yamal 203	Gazkom	Communications	\$72.5M
			* Yamal 204	Gazkom	Communications	
2/2006	Delta 2 7925H	CCAFS	MITEX	USAF	Development	\$50M
3/22/2006	Soyuz	Baikonur	Soyuz ISS 12S	Roscosmos	ISS	\$40M
3/2006	Atlas 5 521	CCAFS	WGS 1	DoD	Communications	\$75M
3/2006	Proton M	Baikonur	* Arabsat 4A	Arab Satellite Communications	Communications	\$70M
				Organization (Arabsat) Spectrum Astro, Inc.	Scientific	
1Q/2006	Pegasus XL	Kwajalein	C/NOFS			\$16M

2005年10月31日 8:00 【CNET Japan 2005/10/31】

•AMD の市場シェアが躍進、インテルから奪う

<http://japan.cnet.com/svc/nlt?id=20089886>

•自己記録を塗り替えた IBM の「Blue Gene/L」—280.6 テラフリップスに

<http://japan.cnet.com/svc/nlt?id=20089814>

•スパイウェア対策の業界団体、スパイウェア対策ガイドラインを発表

<http://japan.cnet.com/svc/nlt2?id=20089854>

【今日のことば】

「GyaO は日本のインターネットユーザーは動画コンテンツを長時間視聴しないという常識を打破った」

----ネットレイティングスの代表取締役社長兼チーフアナリスト、萩原雅之氏

2005年10月31日 17:51

WIRED NEWS (2005/10/31)

遠隔手術を行なう、手のひらサイズのロボット

<http://hotwired.goo.ne.jp/news/20051031301.html>

米ネブラスカ大研究チームはこのほど、遠隔操作で外科手術を行なう医療用小型ロボット試作品を公開。カメラや車輪を備えた、手のひ

らサイズの円筒型ロボットで、切開部から体内患部に達し、傷の様子を調べ、処置することができるという。

2005年10月31日 17:51

WIRED NEWS (2005/10/31)

相互に通信・自己制御する車両——車載安全技術の最新事情

<http://hotwired.goo.ne.jp/news/20051031302.html>

米ゼネラルモーターズ社は、半径 400m 以内の車に問合せを行ない、交通量や車間距離などをチェックする車両間(V2V)通信システムを開発している。また日産は、ドライバが方向指示器を点灯せず車線

を越えた場合に警告し、修正措置をとられない場合は自動的に車線に戻るようなシステムを開発している。ワイアードの自動車ブログより。

2005年10月31日 9:44 SpaceWar Express - October 31, 2005

IRAN NUKES

分析： イラン大統領はイスラエルを攻撃

- Analysis: Iran President Attacks Israel

<http://www.spacewar.com/news/iran-05zzzzzg.html>

London (UPI) Oct 28, 2005 - Iranian President Mahmoud Ahmadinejad's recent call for Israel to be "wiped off the map" has enraged much of the international community and heightened fears

that Tehran's nuclear intentions are military in nature. However opinions are divided as to whether his comments should be seen as an indication of a growing threat to the West.

イランは核凍結へ戻ることはない

- Iran Won't Return To Nuclear Freeze: Ahmadinejad

<http://www.spacewar.com/news/iran-05zzzzzh.html>

MISSILE DEFENSE

ミサイル防衛の焦点： 迎撃機への疑問

- BMD Focus: Doubts About Interceptors

<http://www.spacewar.com/news/abm-05zi.html>

Washington (UPI) Oct 27, 2005 - Is the drive to deploy a chain of ground-based anti-ballistic missile interceptors in Alaska faltering at the Pentagon? Do the Missile Defense Agency and the top policymakers at the Department of Defense believe that the 48

interceptors they are committed to deploying, one third of them by the end of this year, may not even work reliably? It is beginning to look that way.

米国日本の連合の再強化は沖縄の軍削減を意味する

- Revamped US-Japan Alliance Means Force Cuts In Okinawa

<http://www.spacewar.com/news/abm-05zj.html>

NUKEWARS

日本は米原子力空母の母港に、

- Japan To Host US Nuclear-Powered Warship, Sparking Row

<http://www.spacewar.com/news/nuclear-doctrine-05zszs.html>

Yokosuka, Japan (AFP) Oct 28, 2005 - Japan said Friday it had agreed to host a US nuclear-powered aircraft carrier here in 2008 for the first

time, prompting protests in a nation still sensitive about atomic issues.

MISSILE NEWS

エアロジェットは TOW バンカー・バスタの弾頭の契約を獲得

- Aerojet Wins TOW Bunker Buster Warhead Contract

<http://www.spacewar.com/news/missiles-05zzzzp.html>

Sacramento CA (SPX) Oct 31, 2005 - Aerojet has been awarded a contract with Raytheon Missile Systems to assemble, qualify and

produce TOW Bunker Buster warheads. Aerojet's contract is valued at more than \$8 million.

AEROSPACE

新しいプロセッサは F-15E ストライクイーグルをさらに強力に

- New Processor Makes Strike Eagle More Lethal

<http://www.spacewar.com/news/aerospace-05zzzi.html>

Wright-Patterson AFB, Ohio (AFPN) Oct 31, 2005 - When F-15E Strike Eagles starts getting a new core processor next year, they will

be more lethal and effective weapons in the war on terrorism and beyond.

IRAQ WARS

イラク戦にもかかわらず、米国の軍関連供給会社は儲けへの圧力に直面

- Despite Iraq, US Military Suppliers Face Earnings Pressure

<http://www.spacewar.com/news/iraq-05zzzzze.html>

New York (AFP) Oct 30, 2005 - Profits might be up, but leading US military contractors such as Boeing, Lockheed Martin and Northrop

Grumman have reason to be nervous about government budget cuts, despite the Iraq war.

部外からの見方：イラクの恐怖強盗

- Outside View: Iraq's Terror Gangs

<http://www.spacewar.com/news/iraq-05zzzzzf.html>

2004 年以来 26,000 人のイラク人が殺傷された：推定

- More than 26,000 Iraqis killed, injured since 2004: estimate

<http://www.spacewar.com/2005/051030212757.hy3lq91c.html>

TERRORWARS

外からの見方：恐怖への対応

- Outside View: Responses To Terror

<http://www.spacewar.com/news/terrorwar-05zzzu.html>

Washington (UPI) Oct 27, 2005 - President George W. Bush asserts that fighting in Iraq is a necessary correction to the responses by the Carter, Reagan, and Clinton administrations to earlier terrorist

challenges. "To leave Iraq now," the president argues, "would be to repeat the costly mistakes of the past that led to the attacks of Sept. 11, 2001 .. the terrorists concluded that we lacked the courage and

character to defend ourselves, and so they attacked us."

CYBERWARS

グループは連邦通信委員会の Wiretap 法拡張と戦う

- Groups Battle FCC's Wiretap Act Extension

<http://www.spacewar.com/news/cyberwar-05zzg.html>

Washington (UPI) Oct 30, 2005 - Civil liberties groups have come out strongly against the Federal Communications Commission's order to expand the Wiretap Act and force universities and public Internet

networks to overhaul their networks to make it easier for the feds to monitor online communications.

ENERGY TECH

分析： 油から時間をとることへの移行

- Analysis: Transition From Oil To Take Time

<http://www.terradaily.com/news/energy-tech-05zzzzzzw.html>

Washington (UPI) Oct 28, 2005 - A five- to 10-year transition period is required before coal and hydrogen can provide a solution to the

world's oil shortage, and until then oil prices will continue to shape international relations, experts say.

SPACEMART

2008年にベトナムは最初の衛星を打上げる計画

- Vietnam Aims To Launch First Satellite In 2008

<http://www.spacedaily.com/news/vietnam-05a.html>

Hanoi (AFP) Oct 29, 2005 - Vietnam has resurrected its delayed project to launch a satellite and now plans to put one into orbit in 2008,

government sources said.

2005年10月31日 9:44 SpaceWar Express - October 31, 2005

NEW RUSSIA

ロシアは中国に宇宙技術を渡したことで関係者を逮捕

- Russian Arrested For Passing Space Technology To Beijing

<http://www.spacedaily.com/news/russia-05zs.html>

Moscow (AFP) Oct 28, 2005 - An official from a Russian space technology institute has been arrested on a secret services warrant for

giving China space technology with possible military use, the man's lawyer said Friday.

October 31, 2005. Issue 3285. Page 3. Moscow Times

FSB ロシア秘密警察は3人の宇宙研究者を中国への技術移転に関連し逮捕

FSB Arrests 3 Space Researchers

By Carl Schreck Staff Writer

The Federal Security Service has arrested three representatives of a leading rocket and space research center on charges of illegally selling weapons technology to China and misappropriating funds. Igor Reshetin, the head of TsNIIMash-Export of the Central Research Institute for Machine Building, was arrested Wednesday along with colleagues Sergei Tverdokhlebov and Alexander Rozhkin after an

almost two-year investigation into a contract with the same Chinese company that figured in the case of Valentin Danilov, a physicist who was convicted of selling classified information on space technology to China, Reshetin's lawyer Anatoly Yablokov said Friday. Reshetin has been charged with illegally exporting space technology that can be used to deliver weapons of mass destruction and could face up to

seven years in prison if convicted, Yablokov said. Reshetin, together with Tverdokhlebov and and Rozhkin, has also been charged with misappropriating 19 million rubles (\$670,000) spent on outsourcing, Yablokov said, a charge that carries a maximum 10-year prison sentence. The three are being held at Moscow's Lefortovo prison, Yablokov said. A spokesman for the Federal Security Service, or FSB, declined to comment about the case, and a faxed request for comment went unanswered Friday. A spokeswoman for the institute's exports branch also declined to comment. Several researchers have been convicted in recent years on FSB charges of passing information to foreigners. The arrests have been called an FSB attempt to scare scientists and a manifestation of the agency's growing clout under President Vladimir Putin. Yablokov said the FSB began investigating TsNIIMash-Export in December 2003 after the completion of a seven-year contract with the China Precision Machine-Building Export and Import Co. TsNIIMash-Export signed a contract with the Chinese company in 1996 under an agreement between the Russian and Chinese governments on Russian assistance in developing the Chinese space industry, said Viktor Kononenko, another lawyer for Reshetin. Danilov was convicted last November of selling classified

technologies to the same Chinese company, although he insisted that the information was in the public domain. Yablokov, who defended Danilov, said he has noted parallels between Danilov's case and Reshetin's. He said the FSB had in both cases dismissed testimony from experts that nothing illegal had been done. "But luckily Reshetin is not being charged with selling anything top-secret. The charges he is facing are much lighter," Yablokov said, adding that he believed authorities were trying to push TsNIIMash-Export out of the rocket and space technology market. He said TsNIIMash-Export delivered 13 laboratory reports related to the building of manned spacecrafts to China. China's space program is growing rapidly after it sent its first man into space in October 2003 -- a feat that made the country the third to accomplish the feat after the Soviet Union and the United States. A second Chinese manned spacecraft orbited the Earth for five days this month. TsNIIMash-Export was founded by the Central Mechanical Engineering and Scientific Research Institute in 1991 to handle foreign space contracts. It has signed and fulfilled more than 120 agreements with China, the United States and European countries.
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[宇宙・航空・科学]

野口聡一宇宙飛行士に聞く 日本の有人宇宙開発 シャトル後継機に参加を「きぼう」に続く計画必要

日経産業新聞(日経テレコン21) 05年11月01日 朝刊 10面 3段写 2108

[宇宙利用・宇宙からの観測・宇宙環境利用・宇宙実験]

気象衛星撮影 北海道などで観測 ロシアの火災で煙霧

東京新聞 05年11月01日 朝刊 28面 3段写 1855

雑記帳＝国際宇宙ステーションで撮影した日清食品のコマーシャルが完成

毎日新聞 05年11月01日 朝刊 27面 1段写 1470

チャイム＝国際宇宙ステーションで撮影された日清食品のCM映像公開

産経新聞 05年11月01日 朝刊 31面 1段写 1774

[技術・産業]

希少金属確保ヘリサイクル事業 世界で争奪戦激化 三菱マテリアル JFEスチール子会社

日経産業新聞(日経テレコン21) 05年11月01日 朝刊 1面 5段写図表 2053

サイバネットシステム 音響解析ソフト開発 車のエンジン騒音 設計段階で試算
日経産業新聞(日経テレコン21) 05年11月01日 朝刊 1面 3段写 2057

車部品メーカー 05年9月中間決算 業績好調で増配相次ぐ 買収防衛の狙いも
日刊工業新聞 05年11月01日 朝刊 4面 4段 0020

米IBM スパコンで世界最高性能 「ブルージーン/L」280.6テラFLOPS達成
電波新聞 05年11月01日 朝刊 3面 2段 0258

HOYA ナノインプリント用金型開発に本腰 今後の微細化に向けて材料など最適化
電波新聞 05年11月01日 朝刊 7面 3段 写 0291

ユニパルス 超小型コンプレッサ開発
化学工業日報 05年11月01日 朝刊 11面 1段 写 0420

CNG、LPG利用の低公害車 燃料噴射系新技術が相次ぎ実用化 小型・軽量化や出力向上
日刊自動車新聞 05年11月01日 朝刊 3面 5段 写 0505

東京モーターショー 電線メーカーも出展
鉄鋼新聞 05年11月01日 朝刊 5面 5段 写 0573

[通信・放送・IT]

ニフティ 音楽配信事業に参入 PCで購入 携帯で再生 まず18社が楽曲提供
日経産業新聞(日経テレコン21) 05年11月01日 朝刊 3面 3段 2069

USEN 宇野康秀社長 インターネット放送有力番組として野球中継に期待 ベ이스ターズ資本参加に意欲
読売新聞 05年11月01日 朝刊 15面 5段 写 1328

[経営・人]

製品・技術クローズアップ＝「非接触計測・数値シミュレーション技術」 電力中央研究所主任研究員 辻博文
電気新聞 05年11月01日 朝刊 14面 2段 写 0486

開発者Interview＝本田技術研究所朝霞研究所 主任研究員 飯島聡氏 二輪車用エアバッグシステム
日刊自動車新聞 05年11月01日 朝刊 12面 6段 写 0535

インタビュー＝米アロー・エレクトロニクス ウィリアム・ミッチェルCEOに聞く 中国地元企業と取引拡大
日経産業新聞(日経テレコン21) 05年11月01日 朝刊 9面 4段写 2097

消える給与明細書 「支給額〇〇円」パソコンで確認 経費減へ電子化着々
北海道新聞 05年10月31日 朝刊 1面 5段 1978

[航空輸送・エアライン]

川崎重工 英ロールス・ロイス向け B787用エンジン部品出荷

フジサンケイビジネスアイ 05年11月01日 朝刊 8面 2段 写 1906

川崎重工業 ロールス・ロイス向け「787」エンジン 主力部品を出荷

日経産業新聞(日経テレコン21) 05年11月01日 朝刊 12面 2段写 2133

川崎重工業 ボーイング向けIPCドラム出荷

日刊工業新聞 05年11月01日 朝刊 9面 1段 0059

改修進む成田空港第1ターミナルビル 総延べ床面積は約45万平方メートルに

日刊建設工業新聞 05年11月01日 朝刊 2面 6段 写 0771

名古屋空港でイベント 見上げる大空 ここは滑走路

中日新聞 05年10月31日 朝刊 27面 1段 写 2022

[民間航空機関連 (ex-SJAC 三輪さん)]

2005年11月2日 2:35 AIA dailyLead November 1, 2005 -

SmartQuote

「お客が成功するやり方で成功を定義する＝お客の成功こそがすべての原点」

"Define success the way customers do."

元コンチネンタル航空会長ゴードン・ベシユーン --Gordon Bethune, former airline executive

2005年11月1日 1:20 AIA dailyLead October 31, 2005 -

「知性、その声はか細いが、聞き届けられまで消して止む事は無い。」

"The voice of intellect is a soft one, but it does not rest until it has gained a hearing."

--Sigmund Freud, founder of psychoanalysis

2005年11月2日 2:35 AIA dailyLead November 1, 2005 -

ボーイング宇宙関連工場(3州)でストライキ(11月3日)

実行されるとNASA 打上げに影響

Boeing machinists in three states may strike Wednesday

Members of **Boeing's** machinists' union in Alabama, California and Florida said they may strike Wednesday if new contract agreements are not reached with the company. A strike could delay the launch of a NASA

science mission involving two small atmospheric research satellites. [The Huntsville Times \(Ala.\)](#) (11/1), [Florida Today \(Melbourne\)](#) (10/28)

全日空 767-300貨物機のローンチカスタマー

All Nippon set as launch customer for Boeing 767-300 freighter

Boeing said **All Nippon Airways** is the launch

customer for its 767-300 freighter conversion program.

The airline will buy three converted jets and has options to buy more. Terms were not

disclosed. [American City Business Journals](#) (free registration) (10/31), [Air Transport World](#) (11/1)

ユナイテッド航空 Q3 決算は破産宣告手続き経費で損失計上

United posts large Q3 loss on bankruptcy charges

Expenses related to bankruptcy caused **United Airlines** to report a third-quarter loss of \$1.77 billion. The airline hopes to leave bankruptcy protection in February. The latest quarter includes \$1.84 billion in charges related to bankruptcy. The charge offset the

airline's cost reductions and the addition of more profitable routes. [The Wall Street Journal](#) (subscription required) (10/31), [Chicago Tribune](#) (free registration) (11/1), [Aviation Daily](#) (11/1)

インターネットを通じて航空券購入を増やすキャンペーン

Airlines hope to boost profits from Internet sales

Airlines hope the Internet will help them continue to cut distribution costs while increasing unit revenue. Airlines began selling tickets over the Internet nearly 10 years ago. Travelers have learned to find inexpensive fares on

the Web, but airlines hope to develop applications that will boost fares paid by travelers buying their tickets through the Internet. [USA TODAY](#) (11/1)

10月30日 (NYタイムズ) 記事 日米軍事分野での連携強化

「日本の自衛力強化、紛争時の日米連携強化。インテリジェンス共有、共同訓練等の拡充」が盛り込まれた共同声明発表

U.S. and Japan Agree to Strengthen Military Ties

New York Times, Oct. 30 - The United States and Japan announced Saturday a sweeping agreement to reshape their military alliance, including the reduction of marines on Okinawa and the construction of a new generation of radar equipment in Japan as part of a missile defense system. After a morning meeting of the two nations' foreign

and defense ministers and secretaries, a joint agreement was released calling on Japan to accept more responsibility for its own defense, and requiring the United States and Japan to further integrate planning in case of conflict. The two sides agreed to greater sharing of intelligence and to expand joint military training and exercises.

2005年11月1日 1:20 AIA dailyLead October 31, 2005 -

無人機(小型ドローン) の需要が過去5年で5倍と続伸

Companies see growing demand for small drones

Small companies are taking advantage of the growing demand for small drones. Unclassified spending on drones has climbed from \$364 million in fiscal 2001 to

\$1.67 billion for fiscal 2006. Mini drones, which are cheaper to build, comprise 75% of the military's pilotless planes. [The Washington Post](#) (free registration)

国際線に新規参入しようとするエアラインに新たな挑戦

Entry into new international markets creates challenges for airlines

The global economy will force airlines and other companies to adapt to unfamiliar markets and unfamiliar cultures. For its new flight to Delhi, India, American Airlines had to negotiate with the Indian

government, change its work rules, train its staff in cultural differences and plan the best route. [Chicago Tribune](#) (free registration) (10/30)

ダッソー新ビジネスジェット機7X はソフト活用で開発費削減

Dassault uses 3-D software to cut development costs for new jet

Dassault Aviation engineers are using 3-D design software to help them create tools that will help build parts for the Falcon 7X business jet. The company is reducing maintenance costs by using "virtual" ground

crews to anticipate how the aircraft will be serviced. The software has reduced development cost for the plane, Dassault said. Los Angeles Times (free registration) (10/29)

US エア航空の予約受付業務アウトソース再検討

US Airways may reconsider outsourcing of reservations jobs

US Airways is studying its decision to outsource reservations calls. The airline this summer closed its reservations center in Pittsburgh and cut jobs in Winston-Salem, N.C. Many calls are now answered by outside companies in the Philippines and Mexico. Some

customers are unhappy with the change, prompting the airline to announce it would hire 30 more agents in Winston-Salem. The Charlotte Observer (N.C.) (free registration) (10/30)

ユナイテッド航空エンジン部品在庫(ロジ)計画管理に P&W を採用

Pratt to manage spare parts for United Airlines

United Airlines picked engine maker Pratt & Whitney to manage its parts inventory and logistics for 217 engines powering United's 747s, 767s and 777s. Terms

of the 10-year contract were not disclosed. Air Transport World (10/31)