

[Virtual Library] ホームページ <http://www.space-library.com> ミルスペースのアーカイブ, Virtual 書架 他

[新着] 新聞、データ: AW&ST060626, Defense News060626, AirForce Magazine 0607: アップ

科学技術動向 0606, Northrop Grumman Annual Report2005, SIPRI2006Sumamry 他 アップ

ISAS News 2006.6 No.303: 寄贈、感謝

2006.07.06 Futron Ms. Eileen T. McGowan

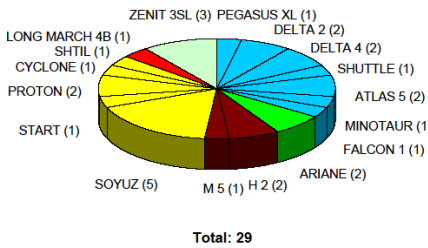
July 2006

**Utron** Launch Report  
Celebrating 20 Years

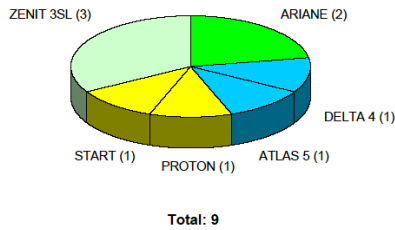
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 21 – August 2			21 CCAFS MITEX (Science) Delta 2 7925	22	23	24 Baikonur Progress ISS Z2P (ISS) Soyuz
25 Baikonur Kosmos 2421 (Military) Cyclone 2	26	27 VAFB NRO L-22 (Intelligence) Delta 4 Medium	28	29	30	1
2	3	4 KSC STS 121 (ISS) Shuttle Discovery	5	6	7	8
9	10 SDSC Insat 4C (Comm.) GSLV	11	12	13	14 Dombrovskiy Genesis Patriot 1 (Dev.) Dnepr 1	15
16	17 Baikonur Metop 1 (Meteor.) Soyuz	18	19	20	21	22
23	24	25	26 Baikonur BELKA and other SmallSats (Dev.) Dnepr 1	27	28 Plesetsk Kompasat 2 (Rem. Sensing) Rocket	29
30 VAFB STEREO A and B (Science) Delta 2 7925H-10L	31	1	2			7X Xichang Sinosat 2 (Communications) Long March 3B

Legend: USA (Blue), Russia (Yellow), Japan (Brown), Europe (Green), India (Purple), Multinational (Light Green), China (Red), Commercial (Light Blue)  
 Success (V), Failure (X), Partial Failure (P)

2006 Orbital Launches by Launch Vehicle Family



2006 Orbital Commercial Launches by Launch Vehicle Family

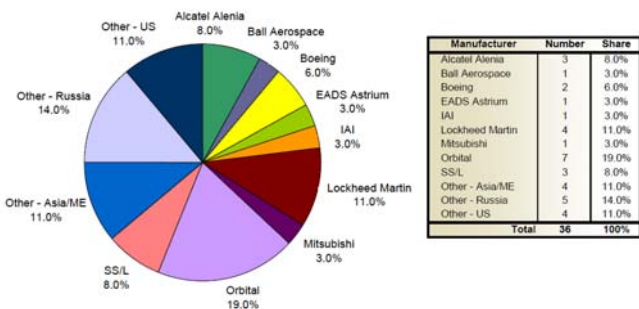


Effective January 1, 2006, commercial launches include launches where at least one payload procured launch services commercially. This definition differs from the standard used by the Federal Aviation Administration's Office of Commercial Space Transportation. This document currently does not include suborbital launches.

**Utron** Satellite Manufacturing Report  
Celebrating 20 Years

July 2006

Manufacturer Market Share of Satellites Launched Through June 30, 2006



[Video] トムキャット賛辞 Tomcat Tribute

<http://shock.military.com/Shock/videos.do?displayContent=102839&ESRC=dod.nl>

2006年7月4日 11:22 SpaceWar Express – July 4, 2006 TODAYS NEWS IN BRIEF

**MILITARY COMMUNICATIONS**

**プーチン大統領はさらに多くの衛星を宇宙に上げることを望む**

**+ Putin Wants More Russian Satellites In Space**

[http://www.spacewar.com/reports/Putin\\_Wants\\_More\\_Russian\\_Satellites\\_In\\_Space\\_999.html](http://www.spacewar.com/reports/Putin_Wants_More_Russian_Satellites_In_Space_999.html)

Moscow (AFP) Jul 04, 2006

President Vladimir Putin called Monday for more Russian satellites to be launched into orbit as part of a space development strategy between now and 2015. His comments came at a government strategy meeting in Moscow where Defence Minister Sergei Ivanov said it was necessary to improve the quality of new launchers and satellites and that Russia's

space programme should focus on the "quality and not the number" of satellites.



**ロシアスパイ衛星は壊れる(ソーラパネル展開に失敗)**

**+ Russian Spy Satellite Breaks Down**

[http://www.spacewar.com/reports/Russian\\_Spy\\_Satellite\\_Breaks\\_Down\\_999.html](http://www.spacewar.com/reports/Russian_Spy_Satellite_Breaks_Down_999.html)

Moscow, Russia (AFP) Jul 04, 2006

A Russian spy satellite launched this week has failed to open one of its two solar panels and cannot fulfill its mission, the Kommersant daily online news service reported Monday, quoting an unnamed Russian defense official.

The Kosmos-2421, a Russian navy satellite for intelligence-gathering and identifying targets, was launched Sunday from Baikonur Cosmodrome in Kazakhstan, Kommersant confirmed.

**GPS NEWS**

**ロシアの宇宙ナビゲーションの災難**

**+ Russia's Space Navigation Woes**

[http://www.gpsdaily.com/reports/Space\\_Navigation\\_Woes\\_999.html](http://www.gpsdaily.com/reports/Space_Navigation_Woes_999.html)

Moscow (UPI) Jul 04, 2006

The Russian satellite navigation system, which, as the name suggests, monitors ship and air traffic, is itself in need of effective state monitoring. It is high time top national leaders focused on the solution to two high-priority challenges: prompt efforts to launch the required number of navigation satellites, and the creation of favorable conditions for their broad commercial

use in order to make the system financially independent.



**KOREAN NUKES**

**北朝鮮は米国に攻撃をやめさせる警告を発する**

**North Korea Warns Off US Attack**

[http://www.spacewar.com/reports/North\\_Korea\\_Warns\\_Off\\_US\\_Attack\\_999.html](http://www.spacewar.com/reports/North_Korea_Warns_Off_US_Attack_999.html)

by Staff Writers

Seoul (SPX) Jul 03, 2006

North Korea vowed Monday to counter any attack by the United States with its "mighty nuclear deterrent," accusing Washington of raising tension on the Korean peninsula. North Korea, which says it has built nuclear weapons, accused the US of exerting military pressure on the Stalinist country and of driving six-way

talks on Pyongyang's nuclear program to breaking-point.



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### 米国は北朝鮮の脅威を一笑に付す

#### + US Shrugs Off North Korea Nuclear Threat

[http://www.spacewar.com/reports/US\\_Shrugs\\_Off\\_North\\_Korea\\_Nuclear\\_Threat\\_999.html](http://www.spacewar.com/reports/US_Shrugs_Off_North_Korea_Nuclear_Threat_999.html)

Washington (AFP) Jul 03, 2006

The White House on Monday dismissed North Korea's threat of a nuclear strike in the event of a US attack as "deeply hypothetical" and urged Pyongyang to rejoin nuclear negotiations. North Korea vowed Monday to counter any strike by the United States with its "mighty nuclear deterrent," accusing Washington

of raising tension on the Korean peninsula.



### 北朝鮮のミサイルの脅威

#### + North Korea's Missile Threat

[http://www.spacewar.com/reports/North\\_Koreas\\_Missile\\_Threat\\_999.html](http://www.spacewar.com/reports/North_Koreas_Missile_Threat_999.html)

### 北朝鮮は米国のスパイ機配備を非難

#### + Pyongyang Denounces US For Deploying Spy Planes

[http://www.spacewar.com/reports/Pyongyang\\_Denounces\\_US\\_For\\_Deploying\\_Spy\\_Planes\\_999.html](http://www.spacewar.com/reports/Pyongyang_Denounces_US_For_Deploying_Spy_Planes_999.html)

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## MISSILE NEWS

### イランはウクライナから巡航ミサイルを購入したことを否定

#### + Iran Denies Cruise Missile Purchase From Ukraine

[http://www.spacewar.com/reports/Iran\\_Denies\\_Cruise\\_Missile\\_Purchase\\_From\\_Ukraine\\_999.html](http://www.spacewar.com/reports/Iran_Denies_Cruise_Missile_Purchase_From_Ukraine_999.html)

Tehran (AFP) Jul 04, 2006

Iran on Sunday denied purchasing cruise missiles from Ukraine after Russian Defense Minister Sergei Ivanov said a Ukrainian firm had delivered half a dozen to the Islamic republic. "I am surprised by the comments made by Mr. Ivanov. No, we did not have any purchase of illegal weapons, and we did not purchase such missiles," Iranian

foreign ministry spokesman Hamid Reza Asefi said.



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## IRANIAN NUKES

### イランは核の協議に柔軟に対応し得ると発言

#### + Iran Says Could Be Flexible In Nuclear Talks

[http://www.spacewar.com/reports/Iran\\_Says\\_Could\\_Be\\_Flexible\\_In\\_Nuclear\\_Talks\\_999.html](http://www.spacewar.com/reports/Iran_Says_Could_Be_Flexible_In_Nuclear_Talks_999.html)

Tehran (AFP) Jul 03, 2006

Iran could be flexible in talks to resolve a nuclear standoff with

the international community if its "red lines" were respected, a

senior security official said Monday ahead of a key meeting with the EU on the row.



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2006年7月4日 7:33 【CNET Japan 2006年07月04日】

個人の私物を宇宙に一米民間ロケット、8月に打上げへ

<http://japan.cnet.com/svc/nlt?id=20158187>

米議会のデータ保持法案、対象がISPからソーシャルネットワーキングサイトに拡大か

<http://japan.cnet.com/svc/nlt?id=20158189>

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2006年7月3日 7:51 【CNET Japan 2006年07月03日】

「ネット中立性」関連法案、米上院委員会では賛否同数で否決

<http://japan.cnet.com/svc/nlt?id=20156827>

フォトレポート: グーグル、巨大データセンタを建築中

<http://japan.cnet.com/svc/nlt?id=20157048>

EMC、RSAを約21億ドルで買収

<http://japan.cnet.com/svc/nlt?id=20156007>

広がる地方自治体によるWi-Fiサービス-米上院商務委員会、規制緩和法案を可決

<http://japan.cnet.com/svc/nlt?id=20156307>

カリフォルニア州アナハイム、市営Wi-Fiネットワークを始動

<http://japan.cnet.com/svc/nlt?id=20156928>

消防署と警察が活用するWi-Fiネットワーク-アリゾナ州テンピ市の事例

<http://japan.cnet.com/svc/nlt?id=20156887>

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2006年7月3日 22:41 DAILY NEDO[2006/07/03]

「高集積・複合MEMS製造技術開発事業」をスタート

-2010年、MEMS関連国内市場1.35兆円確保を目指して-

[http://www.nedo.go.jp/informations/koubo/180703\\_6/180703\\_6.html](http://www.nedo.go.jp/informations/koubo/180703_6/180703_6.html)

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**Aerospace Daily & Defense Report Jul 5, 2006**

**グリフィン: ディスカバリの打上げは難しい商売ではない**

**Griffin: Discovery launch decision not tough call**

EASY CALL: NASA Administrator Michael Griffin says that his decision to proceed with the launch of shuttle Discovery over

objections from the agency's top safety officer and ...

**Calvert はグリフィン長官の STS-121 打上げの決定をサポート**

**Calvert supports Griffin decision on STS-121 launch**

SHUTTLE SUPPORT: Responding to a recent press editorial urging NASA to stop flying the space shuttle, House Space and

Aeronautics Subcommittee Chairman Ken Calvert (R-Calif.) says he ...

**Bruce Carlson 大將は C-130J の終結のコストデータで空軍が不誠実との評価を否定**

### General denies AF dishonest with C-130J termination cost data

TERMINATION MIXUP: Air Force Materiel Command Chief Gen. Bruce Carlson defends Air Force actions in providing cost data

on the possible termination of the C-130J, which was ...

### 空軍と陸軍は JCA データ購入で合意に達する

#### AF, Army reach accord on JCA data buy

PRICE IS RIGHT: Air Force Materiel Command Chief Gen. Bruce Carlson says the service and the Army have reached an

agreement that will enable the Pentagon to ...

### Delay 議員の退職にもかかわらず NASA の宇宙計画は強さを維持

#### NASA's space program stays strong despite DeLay's resignation

WITHOUT DELAY: NASA's space exploration program is a little stronger in the House despite the resignation of the agency's most powerful backer. Last year Majority Leader Tom DeLay (R-Tex.) used his clout to thwart a move that would have shifted \$200 million of exploration funds into grants for state and local law enforcement. The vote was 230-196. This year a similar House amendment to the \$16.7 billion fiscal 2007 NASA appropriation bill failed 236-185, even though the pot for cops was sweetened to the tune of \$476 million. A separate amendment that would have blocked spending on efforts to send humans to Mars lost 259-163. DeLay, who faces state

money-laundering charges back home in Texas, resigned from Congress last month after hanging onto his appropriations committee seat while the NASA bill was drafted.

Meanwhile, the U.S. Supreme Court upheld almost all of the redistricting plan DeLay engineered to strengthen Texas's Republican House delegation. DeLay's seat was considered so safe that he actually gerrymandered some Republicans out of his district. That, plus DeLay's subsequent legal troubles, raises the chances that former Democratic Rep. Nick Lampson of Beaumont, who lost his seat in the redistricting, can return to Congress.

### 米海軍はコスト削減作業に対し、Osprey チームに\$38M を与える

#### Navy awards Osprey team \$38M for cost-cutting work

OSPREY COSTS: The U.S. Naval Air Systems Command awarded the Bell-Boeing Joint Program Office in Patuxent River,

Md., a \$37.8 million delivery order for one-time efforts associated

### EADS は LUH 軽ヘリで\$43.1M の契約

#### EADS wins \$43.1M contract for Light Utility Helicopter

LUH AWARD: EADS North American Defense of Arlington, Va., was awarded a \$43.1 million contract on June 30 for the Light

Utility Helicopter with MEDVAC B and ...

### 企業グループは Dorgan 議員の改革に警戒

#### Industry group 'vigilant' against Dorgan's reforms

DORGAN DOWNED: Industry representatives say they will remain "vigilant" despite having twice defeated attempts by Sen.

Byron Dorgan (D-N.D.) to adopt legislative language aimed at curbing "no-bid" ...

### McQueary 氏が DOD 国防省 DOT&E 運輸&エネルギー省の長官に指名される

#### McQueary named to be DOD DOT&E director

DOT&E DIRECTOR: The Bush administration will tap Charles McQueary to be the Defense Department's director of

operational test and evaluation, the White House said June 30. McQueary

## ボーイングへの請求は\$1B に上り得る

### Boeing charges could top \$1 billion

Missteps by Boeing Co.'s Integrated Defense Systems (IDS) unit could add up to a hit of more than \$1 billion when the company

announces its second quarter ...

## 冗長電源への切替えでハッブル再スタート

### Switch to redundant source of power sets up Hubble restart

Engineers at NASA's Goddard Space Flight Center were scheduled to restart the Advanced Camera for Surveys (ACS) on the Hubble Space Telescope July 2 after switching the instruments detectors to a backup power supply.

Ed Ruitberg, deputy associate director of the Astrophysics Division at Goddard, said June 30 that an engineering review the day before had concluded it would be virtually risk-free to switch to the backup. Controllers began the work needed to command the changeover on June 29.

A subsequent checkout that wrapped up June 30 cleared the camera for a restart at 8 p.m. Eastern time July 2. At that point controllers were scheduled to initiate the preprogrammed sequence to resume scientific observations with the ACS, according to a spokesman at NASA headquarters. As a bonus, engineers will be able to recalibrate the camera for a colder temperature in the weeks ahead. Dave Leckrone, senior Hubble project scientist at Goddard, said the team had wanted to lower the operating temperature of the camera's charge-coupled devices (CCDs) for some time, but had not done so to avoid

disrupting the science program on the ACS. "Since we are now going to have to recalibrate anyway, we're going to take advantage of this opportunity to drop the temperature of the wide field camera CCD from -77 degrees to -81 degrees, as I recall, centigrade, and that will require recalibration, which we're about to have to do anyway. So we're getting a little bonus from this activity." The recalibration will lower the noise signal in data caused by "hot pixels" in CCD arrays, Leckrone said. The work can proceed in tandem with scientific observations, although data collected will have to be reworked to account for the new observing conditions.

The camera shut down June 19 after power supply voltages went above acceptable limits (DAILY, June 28). Ruitberg said engineers believe the problem arose in a plus-15-volt output circuit in the primary power-supply unit, although the exact cause of the anomaly won't be known until an engineering team completes its analysis later this month. - Frank Moring, Jr. (moring@aviationweek.com)

## 海軍はロッキードマーチンに試験のサポート契約を発注

### Navy awards Lockheed Martin for test support

TEST HELP: The U.S. Navy has awarded Lockheed Martin Corp.'s Information & Technology Services unit a maximum \$39.9

million, one-year contract for design agent engineering and technical ...

## NASA は新しい軌道ロケットに Ares 1 と Ares 5 と命名

### New orbital rockets named Ares 1 and 5 by NASA

In a nod to both the Apollo program and to Mars as an eventual destination for astronauts, NASA has named its new shuttle-derived orbital rockets the Ares 1 and Ares 5. Ares, the Greek name for Mars, "connects to our vision of going to the moon, Mars and beyond," Associate Administrator for Exploration Scott Horowitz said during a press conference at Kennedy Space Center June 30. "We didn't name it after the

[Greek] god of war. That's not our intent."

The numbers 1 and 5 hearken back to the Saturn 1 and Saturn 5 rockets developed for the Apollo lunar program. The name Ares was arrived at through an internal polling process that culled hundreds of choices, Horowitz said. NASA has winnowed the list of possible names for the Crew Exploration Vehicle down to three or four candidates and may be ready to announce the

winner by August. 360 feet tall Capable of lifting 55,000 pounds to low Earth orbit, the Ares 1 will consist of a modified five-segment shuttle solid rocket booster (SRB) that will transport the CEV and its occupants to orbit. The Ares 1 will produce 3.5 million pounds of thrust at liftoff. After the first stage burns out two minutes after launch, the CEV will be boosted the rest of the way to orbit by an Apollo-derived

#### **Unmanned test flight**

The Ares 5 also will use the J-2X second stage engine, this time to boost an Earth Departure Stage into orbit that will rendezvous and dock with the CEV before leaving Earth orbit for the moon.

NASA hopes to conduct an unmanned test flight of the Ares 1 from Cape Canaveral in 2009, most likely from launch complex 39.

Tests of the launch abort system are expected to take place at White Sands Missile Range, N.M. Meanwhile, source selection for

second-stage engine, the J-2X.

The heavy-lift Ares 5 will be a cargo-only rocket capable of orbiting 286,000 pounds. It will be comparable in size to the Saturn 5 rocket, standing 360 feet tall. The Ares 5 will feature five RS-68 engines mounted below a larger version of the shuttle's external tank equipped with two five-segment SRBs.

the CEV is going "extremely well," Constellation Program Manager Jeff Hanley said. Teams led by Lockheed Martin and Northrop Grumman/Boeing are competing for the award, which is expected in September. The first piloted flight of the CEV is expected by September 2014. – Jefferson Morris

(jeff\_morris@aviationweek.com)

#### **シコルスキーが CH-53K のアビオニクスにロックウェルを選定**

##### **Sikorsky taps Rockwell Collins for CH-53K avionics**

Subcontracting competitions for the Marine Corps' CH-53K development program have picked up in earnest with Sikorsky

Aircraft, a United Technologies Corp. subsidiary, announcing June 29 that it ...

#### **ITU 国際通信機構は 2015 年までに全デジタル放送への移行に合意**

##### **ITU agrees to switch to all-digital broadcasting by 2015**

SWITCHING TO DIGITAL: International Telecommunications Union delegates from 101 nations have agreed to switch totally

to digital broadcasting by 2015 for the 470-862 MHz terrestrial frequency band. ...

#### **海軍はスーパーホーネットの AESA レーダが OPEVAL 運用評価のフェーズに移ることを承認**

##### **Super Hornet AESA radar OK'd by Navy to enter OPEVAL**

The U.S. Navy has cleared the F/A-18E/F Super Hornet's Raytheon-built APG-79 active electronically scanned array

(AESA) radar to enter its operational evaluation (OPEVAL), the company announced June ...

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**Aerospace Daily & Defense Report Jun 30, 2006**

#### **議員は DHS 国土安全保障省の予算を要求を越え、強化することを目指す**

##### **Lawmakers look to boost DHS spending over requests**

Ambushed by an election-year need to boost border security personnel, Congress is nonetheless providing more money for

aircraft, sensors and other technology for the Homeland Security Department's ...

#### **上院は Arrow ミサイル、アルミ、ICBM の RDT&E 予算を修正**

##### **Senate amends RDT&E funds for Arrow, aluminum, ICBMs**

Senators last week made several changes to authorized defense

research, development, test and evaluation (RDT&E) funds

before passing their fiscal 2007 policy bill which affected the Arrow ballistic missile defense (BMD) system, the Advanced

Aluminum Aerostructures Initiative and Minuteman III intercontinental ballistic missiles (ICBMs).

### 多くの戦士は秘密の情報を得ることはできないと NRO 偵察局長官は語る

#### Many warfighters can't get classified info, ex-NRO chief says

KEYSTONE, Colo. – There's "a long way to go" to get highly classified, up-to-date information to the front-line troops who

need it most, according to Peter B. . . .

### レイセオンのエアボーン・ソナーの量産契約が認められる

#### Full production awarded for Raytheon's undersea sensor

SONAR PRODUCTION: Raytheon Co. said June 29 that it was awarded a \$45 million, U.S. Navy contract to provide six

AN/AQS-22 Airborne Low Frequency Sonar systems, the . . .

### アナリストは SOCOM 米国特殊作戦コマンドはテロとの戦いにはうまく合っていないと述べる

#### Analyst says SOCOM not well suited for terror war

An analyst with the Council on Foreign Relations told House lawmakers June 29 that U.S. Special Operations Command

(SOCOM) is not organized to achieve long-term success in . . .

### シャトルのクルーの作業の翼端の点検

#### Inspection of wing edges among shuttle crew's tasks

Space shuttle Discovery is scheduled for launch on July 1. Once aloft, the primary mission milestones across the 13-14 day flight

will include: . . .

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Aerospace Daily & Defense Report Jun 29, 2006

### 下院は火星ミッション予算の妨害への活発な作業に復帰

#### House turns back spirited effort to bar Mars mission funding

Perhaps foreshadowing budget fights for years to come, NASA supporters in the House turned back a spirited effort June 28 by

Rep. Barney Frank (D-Mass.) that would . . .

### NGATS 次世代の航空輸送システムの運用概念を夏のおしまいまでに

#### NGATS concept of operations in place by summer's end – Blakey

The overall concept of operations for America's next-generation air transportation system (NGATS) should be in place by the end

of this summer, FAA Administrator Marion Blakey said . . .

### ロッキードマーチンの技術者は 9 つの開口をもつ広視野の撮像システムを試作

#### Lockheed Martin engineers build telescope imaging system

Engineers at the Lockheed Martin Advanced Technology Center in Palo Alto, Calif., have built a prototype wide-field imaging

system with nine apertures that is designed to overcome . . .

### 上院のエネルギーの予算担当議員は RRW 高信頼弾頭置換え予算について下院をしのぐ



### Senate energy appropriators outdo House on RRW funding

Senate energy appropriators are suggesting \$62.7 million for the Energy Department's Reliable Replacement Warhead program in

fiscal 2007, a \$35 million increase over the Bush administration's request. . . .

### 海軍の航空システム・コマンドは英国の JSF の作業を LM ロッキードマーチンに与える

#### Navair awards LM for U.K. JSF work

The U.S. Naval Air Systems Command has awarded Lockheed Martin Corp.'s Aeronautics Co. in Fort Worth, Texas, a \$115.84

million contract modification for integration of the U.K. . . .

### 空軍は最初の西海岸 EELV に搭載して NRO 偵察局の衛星を打上げ

#### Air Force lofts NRO satellite aboard first West Coast EELV

After years of delays, a U.S. Air Force Boeing Delta IV inaugurated Space Launch Complex-6 at Vandenberg Air Force

Base, Calif., as a West Coast launch pad . . .

### オーストラリアの防衛長官はボーイングの Wedgetail の性能に失望

#### Australian defense chief 'disappointed' with Boeing's Wedgetail performance

DISAPPOINTED: Australian Minister of Defense Brendan Nelson says he is "very disappointed" with Boeing's performance on the

Wedgetail airborne early warning and control aircraft, and has met . . .

Lockheed Martin 2005 Annual Report から

#### [Our Vision](#) 我々のビジョン

powered by innovation, Guided by integrity,

We help our Customers Achieve their Most Challenging Goals

**革新を推進力に、システムの整合性/完全性に導かれ、顧客がもっともチャレンジングな目標を達成するのを我々は支援する。**

#### [Our Value Statements](#) 我々の価値の宣言

do What's Right, Respect others, perform With excellence

**正しいことを行なう、他に敬意を払う、卓越した成果を達成する。**

Boeing キャッチフレーズ

**Shaping the Future 未来を創る**

Northrop Grumman キャッチフレーズ

**Defining the Future 未来を規定/定義する**

2006.6.30 Astro News page 1

### 最初の Delta IV EELV の西海岸打上げは NRO 偵察局衛星を軌道に投入、連続打上げ成功の記録を打立てた

#### First Delta IV, EELV West Coast launch places NRO satellite on orbit, sets launch record

Candrea Thomas SMC Public Affairs

A low-level fog covered the ground at Vandenberg Air Force Base, Calif., June 27, as the first-ever launch of a Delta IV rocket from the West Coast thundered into space at 8:33 p.m. lifting SMC's consecutive successful operational launches to a record-breaking 45.

The government and industry team from the Space and Missile

Systems Center, the 30th Space Wing at Vandenberg AFB, the National Reconnaissance Office, The Aerospace Corporation, the Boeing Company and numerous other organizations supported the \$2 billion launch carrying a classified National Reconnaissance Office satellite.

"The success of this first launch of a Boeing Delta IV rocket

from the West Coast is a tremendous milestone for the Space and Missile Systems Center, the **NRO**, the 30th Space Wing, The Aerospace Corp. and the entire launch team,” Lt. Gen. Michael Hamel, Space and Missile Systems Center commander, said. “I want to congratulate and thank everyone for their hard work and dedication to the success of this mission. The launch extends our record to 45 successful operation military space launches in a row. This is an outstanding accomplishment and a huge achievement for the team and the nation.”

The mission, designated **NROL-22**, highlighted the capabilities of Delta IV; an advanced family of rockets that evolve proven technologies to launch medium to heavy size satellites. It was the first West Coast launch of an Evolved Expendable Launch Vehicle.

“We developed the Delta IV fleet in partnership with the Boeing Company for the Evolved Expendable Launch Vehicle program,” said Col. Jim Planeaux, SMC’s Delta IV program manager. “This

first launch of the Delta IV from the West Coast culminates a tremendous effort by the Air Force, Boeing and **NRO** team. It’s a pivotal milestone for the **EELV** program in providing assured access to space for critical national security payloads.”

“This 317th Delta launch smoothly followed the successful Delta II **MiTex** mission on June 22 from Cape Canaveral, Fla., showing that the Delta fleet and team are in top form as we look ahead to a challenging manifest over the next few years. It was also a historic “first” in finally achieving the promise of national security launch capability from Space Launch Complex – (SLC) 6 at Vandenberg AFB,” he said.

SLC-6 was originally built for the Manned Orbiting Laboratory program in the 1960s and modified for the NASA Space Shuttle in the 1980s, but those missions were cancelled before any flights actually lifted off there. Lockheed Martin’s Athena booster made four test flights from the pad in the 1990s, enjoying only one successful flight.



A Delta IV takes off from Space Launch Complex 6 at Vandenberg AFB, Calif., at 8:33 p.m., June 27. The Delta IV was a medium+ configuration of the booster’s five design options, which enables it to place payloads in orbit ranging from nearly 9,000 pounds to

more than 27,000 pounds. It was the first EELV West Coast launch.

2006.6.30 Astro News page 5

### 元宇宙飛行士が AFSPC 空軍宇宙コマンドの司令に

#### Former astronaut takes command of AFSPC

Capt. Karim Rateu, AFSPC Public Affairs PETERSON AIR FORCE BASE, Colo. — Gen. Kevin Chilton assumed command of Air Force Space Command in a ceremony presided over by Air Force Chief of Staff Gen. T. Michael Moseley, at Peterson Air Force Base June 26.

Current and former national defense leaders, active and retired senior officers, community leaders and active-duty servicemembers gathered at the Peterson AFB parade field to welcome AFSPC’s newest commander.

He succeeded Gen. Lance Lord who retired April 1.  
General Chilton is the first astronaut to earn a fourth star, and pinned on the rank of general in a promotion ceremony the

morning of his assumption of command. (以下,  
<http://www.space-library.com>の Astro News のところの LINK でダウンロード可)

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2006.6.30 Astro News page 5

**納税者と宇宙コミュニティは ESPA リング(打上げロケットの第 2 ペイロードアダプタ)から恩恵を受ける**

**Taxpayers, Space community benefit from ESPA ring**

Jo Adail Stephenson SMC Public Affairs

In the midst of budget cuts and space program cost overruns, the Air Force has innovatively come up with a way to save taxpayers' money and at the same time increase small satellite launch capability to its maximum potential.

It's called the Evolved Expendable Launch Vehicle Secondary Payload Adapter, or **ESPA** ring for short. Roughly five feet in diameter and two feet tall, the **ESPA** is a half-inch thick aluminum ring on which individual satellites can be mounted on one of six standardized secondary satellite mounting locations found on the ring's perimeter. It can support up to six 400-pound satellites.

This means that instead of launching one satellite with one rocket, the **ESPA** ring, which fits in-between the rocket and the largest satellite, will enable that same launch vehicle to carry up to six additional small satellites for the cost of one launch.

Col. Joseph Boyle, SMC's chief launch engineer, said this could capture a whole new market for the EELV program and provide a significant boost to the research community for the nation.

In the near future, the **ESPA** ring will allow a number of EELV launches to have the capacity to offer the small satellite community this significant new access to space option. This could substantially reduce integration costs from an estimated

\$20 million per satellite per launch to \$5 million. The launch costs, which are figured separately from the integration costs, are still being worked, according to SMC EELV program officials.

"We are looking at putting **ESPA** rings on as many Air Force launches as we possibly can," said Lt. Col. Dan Griffith, director of the Department of Defense Space Test Program, part of the Air Force SMC's Detachment 12 at Kirtland Air Force Base, Albuquerque, N.M.

The STP-1 launch, slated for fall this year, will be the inaugural flight of the **ESPA** ring.

The mission's manifest is the Defense Advanced Research Projects Agency's Orbital Express, the launch's largest satellite, and the **ESPA** ring with five auxiliary satellites - MidSTAR-1 (Naval Academy), FalconSAT-3 (U.S. Air Force Academy), NPSAT1 (Naval Post Graduate School), STPSat-1 (STP built with Naval and Air Force Research Lab experiments) and CFESat (Los Alamos National Labs). Aboard an Atlas V launch vehicle for this first mission, a total of six distinctly different satellites at two different altitudes/inclinations make this an important first launch of its kind, according to Colonel Griffith. (以下,  
<http://www.space-library.com>の Astro News のところの LINK でダウンロード可)

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2006.6.30 Astro News page 6

**DAGR 防衛先進 GPS レシーバ計画はロックウェル・コリンズの会長のチーム表彰を求めて競争**

**DAGR Program competes for Rockwell Collins Chairman's team award**

David Williamson, Navstar GPS Joint Program Office

The Defense Advanced Global Positioning System Receiver Program was among the top five Rockwell Collins' programs competing for the Chairman's Team Award for 2005.

More than 50 Rockwell Collins' programs were nominated for the

prestigious award, which embodies Rockwell's core values of teamwork, innovation, integrity, customer focus and leadership. (以下,  
<http://www.space-library.com>の Astro News のところの LINK でダウンロード可)

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2006.6.29 Space Observer page 6

## 新しい契約者 BAE 社が米空軍のレーダー・システムのサポートを交代する

### New contractor takes over support for Air Force radar system

By Stefan Bocchino, 21st Space Wing Public Affairs

British Aerospace Systems was recently selected as the prime contractor to provide operations, maintenance and logistics support for the Solid State Phased Array Radar System.

The SSPARS mission is the responsibility of the 21st Space Wing at Peterson Air Force Base, said Master Sgt. Richard Frey, chief of current operations with the 21st Operations Support Squadron. It is a network of powerful ground based radar systems in five locations within the Northern Hemisphere. The radar are located at Beale AFB, Calif.; Cape Cod Air Force Station, Mass.; Clear AFS, Alaska; Royal Air Force Fylingdales, England; and Thule Air Base, Greenland.

“The primary mission for SSPARS is missile warning and detection,” Sergeant Frey said. “It is part of dual phenomenology. First our satellite systems would detect a launch and then the

ground based radars would detect the missiles when they come back to Earth. The SSPARS has the capability to track multiple objects as they come into Earth’s atmosphere.”

The SSPARS also have a secondary mission for which it is mostly used, said Sergeant Frey. The mission is space surveillance. This mission consists of detecting and tracking space objects such as satellites and debris. (以下, <http://www.space-library.com>の Space Observer のところの LINK でダウンロード可)

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**Space News** <http://www.space.com/spacenews/>

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July 3, 2006 Space News

## ロラール-エコースター衛星の取引は中国に関する側面をもつかもしれない

### Loral-EchoStar Satellite Deal May Have China Angle

PARIS — Space Systems/Loral announced June 30 that it had booked a new telecommunications satellite order from EchoStar in a deal industry officials said likely is the CMBStar satellite for

mobile video services to hand-held devices that China wants available in time for the 2008 summer Olympics.

## 下院は NASA の\$16.7B の 2007 年予算を承認

### House Approves \$16.7 Billion for NASA

WASHINGTON — The U.S. House of Representatives voted 392 to 23 to approve the 2007 Science, State, Justice, and

Commerce Appropriations Bill (H.R. 5672), which includes \$16.7 billion for NASA.

## 下院は NASA から宇宙探査予算を取り去る努力を退ける

### House Rejects Efforts To Strip Exploration Money from NASA’s Budget

WASHINGTON — Lawmakers in the House of Representatives June 28 rejected efforts to strip space exploration funds from

NASA’s 2007 budget.

## Transformational Space (t/Space)社と Ball 社、Levin 氏、Near Earth 社は契約を交わす

### Ball, Levin, Near Earth LLC Sign on with t/Space

WASHINGTON — Transformational Space Corp. (t/Space) announced June 28 it has added XM Satellite Radio co-founder

Lon Levin to its senior management team and Ball Aerospace Corp. to its technical team.

### Delta 4 は最初の NRO 偵察局衛星を打上げ

#### Delta 4 Launches Its First NRO Payload

WASHINGTON — Boeing Co. launched a U.S. government intelligence satellite aboard its Delta 4 rocket June 27, marking

the first launch from the company's West Coast launch pad.

### ESA は Vega ロケットの第2段を燃焼試験

#### ESA Test Fires Vega Second Stage

PARIS — The second stage of Europe's four-stage Vega small-satellite launch vehicle was successfully fired June 26 for the first time, completing one of several milestones scheduled in

the next eight months in preparation for a late-2007 inaugural flight, the European Space Agency (ESA) announced.

### 米国は北朝鮮のミサイル打上げ脅威がミサイル防衛の活動の加速をすることはないと発言

#### U.S. Says North Korean Launch Threat Will Not Accelerate Missile Defense Activity

WASHINGTON — The Pentagon has not accelerated any aspect of its missile defense work in response to a possible North Korean test of a long-range missile, Air Force Lt. Gen. Henry

“Trey” Obering, director of the U.S. Missile Defense Agency (MDA), told reporters at a June 23 breakfast in Washington.

### ESA は新しい宇宙機の設計を研究する作業に関しロシアに加わる

#### ESA To Join Russia in Effort To Explore Designs for New Spacecraft

PARIS — European Space Agency (ESA) governments agreed June 22 to participate in a two-year program with Russia, and probably Japan as well, to explore crew-transport vehicle

designs for missions to the international space station, the Moon and elsewhere.

### インテルサットは PanAmSat の買収を完了する予定

#### Intelsat to Complete Purchase of PanAmSat

PARIS — With the final U.S. government regulatory approval now secured, Intelsat will complete its purchase of PanAmSat on July

3, Intelsat announced June 20.

### シーロンチは PanAmSat という名称のついた最後の衛星を軌道投入

#### Sea Launch Orbits Final Satellite with PanAmSat Name

PARIS — The last satellite to be launched under the PanAmSat name was successfully placed into orbit by a Sea Launch Zenit-3SL vehicle June 18, a launch that marks the beginning of

the end of a company that will now become part of the satellite establishment it was created to battle.

Sat News <http://www.satnews.com/>

Week of July 3, 2006 For the full text go to: [SatNews Weekly](#)

### ボーイングはエアボーン・サバイランス計画と暫定の法的決着の遅れで第2四半期の\$1.115B の変化に身構える

... [Boeing Braces for \\$1.115-B Charges in 2Q for Delays on Airborne Surveillance Program and Tentative Legal Settlement](#)

### デルタ IV は西海岸から NRO 偵察局衛星を打上げ

… [Delta IV Launches NRO Satellite from West Coast](#)

**空軍は L-3 Communications と Rockwell にさらなる GPS 技術を開発する契約を与える**

… [Air Force Awards L-3 Communications and Rockwell Contracts to Further Develop GPS Technology](#)

**NASA は Glory ミッションで 2 個の Cloud カメラを製造するのに Ball Aerospace を選定**

… [NASA Selects Ball Aerospace to Build Two Cloud Cameras on Glory Mission](#)

**Aerojet は NASA の CEV にロケット推進着陸システムを開発予定**

… [Aerojet to Develop a Rocket-Powered Landing System for NASA's CEV](#)

**AMPAC-ISP は Telstar 11N 衛星用に SSL にスラスタを提供予定**

… [AMPAC-ISP to Supply Space Systems/Loral With Thrusters for Telstar 11N Satellite](#)

**NASA のマイクロサテライトは技術の検証ミッションを終了**

… [NASA's Micro-Satellites Complete Technology Validation Mission](#)

**Vega 打上げロケットの第2段のロケットモータがとどろき動作する**

… [Europe's New Vega Launch Vehicle Second Stage Motor Roars to Life](#)

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**Lockheed Martin Press Releases** <http://www.lockheedmartin.com/wms/findPage.do?dsp=fneoc&ti=111>

June 30, 2006 **ロッキードマーチンは ISX 社の買収を完了**

[Lockheed Martin Completes ISX Corporation Acquisition](#)

June 30, 2006 **ロッキードマーチンは DHS の EAGLE コンタラクト・ビークルに勝つ**

[Lockheed Martin Wins Role On DHS EAGLE Contract Vehicle](#)

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**Boeing News Releases** <http://www.boeing.com/news/releases/index.html>

Jun. 29, 2006 **ボーイングは第2四半期にエアボーン監視計画と以前に明らかにされた暫定の法的解決に対する請求を受ける予定**

[Boeing to Take Charges in Second Quarter for Airborne Surveillance Program and Previously Disclosed Tentative Legal Settlement](#)

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**France in Space** <http://www.france-science.org/home/page.asp?target=nfo-let&PUBLID=9&LNG=us>

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**AstroExpo.com** <http://www.astroexpo.com/News/TopNews.asp>

6/26/2006 – 6/30/2006

## Business News

[i/Space Announces Expanded Technical and Financial Team](#)

[Aerojet to Develop a Rocket-Powered Landing System for NASA's CEV](#)

[NASA Awards Ames Research Center Fire Protection Contract](#)

[Loral Skynet Introduces New SkyReach VOIP Service in Asia with GO2Call](#)

[Intelsat, Ltd. Announces Receipt of Requisite Consents by PanAmSat](#)

## International Space News

[Putin Proposes to Turkey Nuclear Energy and Space Cooperation](#)

[International Space Station Status Report: SS06-031](#)

[ESA Donates Mosaic of Global Images Taken by Envisat to United Nations](#)

[NASA Astronaut Holds Webchat with International Audience](#)

## Launch News

[Local NASA Center Ready to Support Upcoming Space Shuttle Mission](#)

[Delta 4 Rockets Air Force Space Command to New Heights](#)

[Delta IV Launch Successful](#)

[NASA Announces Space Shuttle Web and Television Coverage](#)

[ISS Progress Space Freighter to be Launched at 3:08 p.m. GMT](#)

[Progress M-57 Blasts Off from Baikonur to ISS](#)

## Program News

[Cassini Significant Events for 06/20/06 - 06/28/06](#)

[NASA Issues Hubble Space Telescope Status Report](#)

[First Belarusian Space Satellite to Lift Off Soon](#)

[SMART-1 Manoeuvres Prepare for Mission End](#)

[T-3.2.1 ... Northrop Grumman Launches Weightless Teacher-Education Program](#)

2006年 7月 6日 時事通信社「世界週報」 7月 18日号 [目次抜粋]

### <シリーズ>

今週の軍事情報／新計画で後回しにされたイラクの米軍防護(江畑謙介)

宇宙よもやま話／ロケットの故郷・道川を行く(的川泰宣)

[平山ニュース 2006年 5月 25, 29日] <http://www.wikihouse.com/space/>

### [NEWS]

7/5 北朝鮮がテポドン2号を含むミサイル多数発射 失敗か

7/4 1838GMT 打上成功:STS-121,ISS ULF1.1,Discovery,KSC

7/3 シャトル Discovery 雷雲のため打上延期中(NASA,JAXA,読,朝)

6/30 NASA が次世代ロケットを Ares と命名(NASA,共)

6/30 故障していた HST のカメラが復旧(NASA,朝)

### [予定]

7/10 1100GMT 打上:通信衛星 INSAT 4C,GSLV,Sriharikota(インド)

7/4 1838GMT 打上:STS-121,ISS ULF1.1,Discovery,KSC

### [EVENT]

7/29-30 CAMUI ロケット打上げ見学ツアー,

小中学生と保護者 申込先着 35名>札幌市青少年科学館

7/26 JAXAi マンスリートーク「宇宙での暮らし 宇宙食 Q&A」

7/8 県民カレッジ連携講座・会津大学公開講座

はやぶさプロジェクト一般講演会「はやぶさが見た小惑星イトカワ」

7/8 第3回小惑星ライトカーブ研究会 招待講演,国立天文台,三鷹

「はやぶさ探査機による小惑星イトカワ近傍観測の科学成果」

ISAS 安部正真氏 & はやぶさサイエンスチーム

7/5 応募締切:種子島スペースキャンプ 2006,8/7-11,小4-高3,60名  
>YAC

7/4JAXA シンポジウム 2006,よみうりホール,有楽町,申込先着 1000名

### [学会]

8/9 JSME 宇宙工学講座,山口大学

8/7-9 第39回月・惑星シンポジウム,ISAS 相模原

8/1-2 16th JAXA Workshop on Astrodynamics and Flightmechanics, ISAS 相模原

7/12-14 The 2nd Hayabusa Symposium,東大(浅野キャンパス)

7/9-12 42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Sacramento,California

7/7 JSASS 中部支部第270回定例談話会,名古屋大学

7/5 第4回宇宙ミッションシンポジウム,東京大学生産技術研究所

[TV] ディスカバリチャンネル, ヒストリーチャンネル他

7/10 2000-2054 TBS 特命!刑事どん亀 人工衛星を守れ!

7/10 2000-2054 日本TV 世界まる見え!テレビ特捜部 民間宇宙プロジェクト ほか

7/9 0900-0930 BS-i クボジュンのえいごっこ 宇宙旅行

7/8 1200-1300,7/9 0300-0400,0800-0900 ヒストリーチャンネル  
(再)20世紀のファイルから 宇宙に咲いた“ひまわり”

7/5 2000-2054 BS-i (再)人類,月に立つ(10) /// 「ガリレオは正しかった アポロ15号」

7/4 2100-2200,7/5 1000-1100,1600-1700 /// (再)20世紀のファイルから 宇宙に咲いた“ひまわり”

### [etc.]

7/14 公募締切:第9回宇宙環境利用の地上研究の公募>JSF

**[宇宙開発]** [http://dailynews.yahoo.co.jp/fc/science/space\\_exploration/](http://dailynews.yahoo.co.jp/fc/science/space_exploration/)

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- 若田さん極限環境で訓練 長期滞在に向け(共同通信) (7日 12時 17分)
  - <NASA>若田さんリードに月・火星有人探査想定の実験(毎日新聞) (7日 11時 16分)
  - シャトル、宇宙ステーションとのドッキング成功(読売新聞) (7日 3時 12分)
  - ステーションにドッキング 米シャトル(共同通信) (7日 0時 19分)
  - ロシア軍、北ミサイル探知できず…露紙が無力ぶり指摘(読売新聞) (6日 22時 58分)
  - <ディスカバリ>今夜、日本上空で見られそう(毎日新聞) (6日 11時 41分)
  - 機体損傷の形跡なし=宇宙ステーションとドッキングへ米シャトル(時事通信) (6日 11時 2分)
  - シャトルの機体検査に着手 NASA(共同通信) (6日 10時 18分)
  - 小型衛星の産業活用目指す 協議会が事業計画承認(共同通信) (5日 18時 57分)
  - 米シャトル、打上げ成功 1年ぶり 断熱材亀裂、影響なし(産経新聞) (5日 16時 13分)
  - 米シャトル1年ぶり宇宙へ 12日間の飛行(共同通信) (5日 11時 59分)
  - 【中国】北朝鮮ミサイル発射、中国メディアも相次ぎ報道(サーチナ・中国情報局) (5日 11時 15分)
  - <ディスカバリ>打上げ 地球周回軌道に(毎日新聞) (5日 4時 33分)
  - ディスカバリ 予定通り打上げへ NASA(毎日新聞) (4日 17時 25分)
  - <ディスカバリ>予定通り打上げへ NASA(毎日新聞) (4日 11時 39分)
  - <ディスカバリ>断熱材に亀裂 打上げへの対応検討(毎日新聞) (4日 0時 54分)
  - ディスカバリ 打上げを延期(産経新聞) (3日 3時 20分)
  - シャトル損傷の可能性小さい=打上げ決定の妥当性強調-NASA 局長(時事通信) (3日 1時 0分)
  - 「リスク冒す価値ない」=米有力紙がシャトル不要論(時事通信) (2日 15時 2分)
  - シャトル打上げ、1日延期=天気回復せず-米 NASA(時事通信) (2日 7時 1分)
  - ディスカバリ、悪天候で打上げ延期(読売新聞) (2日 5時 44分)
  - 米シャトル、2日早朝に打上げ=1年ぶり、船長ら搭乗(時事通信) (1日 23時 0分)
  - 後継機は「アレス」 米シャトル使命終え(産経新聞) (1日 16時 6分)

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**[民間宇宙開発]** [http://dailynews.yahoo.co.jp/fc/science/private\\_space\\_development/](http://dailynews.yahoo.co.jp/fc/science/private_space_development/)

- 
- GISで情報豊かに 津で宇宙飛行士の毛利さん講演(中日新聞) (6日 11時 11分)
  - 小型衛星の産業活用目指す 協議会が事業計画承認(共同通信) (5日 18時 57分)
  - ISSツアー幕開けへ 米スペースハブ 商用宇宙船CG公開(フジサンケイ ビジネスアイ) (6月 23日 8時 32分)
  - 韓国初の宇宙飛行士、キムチ抗がん剤など実験か(YONHAP NEWS) (6月 16日 9時 25分)
  - 宇宙飛行でビジネスを 日本人3人もチャータ(共同通信) (6月 7日 20時 5分)

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**[米軍動向]** [http://dailynews.yahoo.co.jp/fc/world/us\\_armed\\_forces/](http://dailynews.yahoo.co.jp/fc/world/us_armed_forces/)

- 
- ハワイ周辺が目標=テポドン2、弾道を分析-政府高官(時事通信) (7日 15時 1分)
  - テポドン2、ハワイに照準 政府筋が可能性を指摘(共同通信) (7日 13時 25分)
  - パトリオット重視 「配備国民も理解する」 防衛庁長官(琉球新報) (7日 9時 42分)
  - 米軍ヘリが不時着、人命・機体とも被害なし(YONHAP NEWS) (7日 9時 7分)
  - 「強固故に壊れやすい」 空母の炉心、米専門家指摘(共同通信) (6日 20時 20分)



- テポドン2 発射場に＝燃料未注入－小泉首相、即時中止を要求・北朝鮮ミサイル(時事通信) (6日 19時 0分)
- 政府、データ解析に着手…制裁措置検討も各省に指示(読売新聞) (6日 18時 49分)
- テポドン2、再発射否定できず＝北朝鮮ミサイルで先崎統幕長(時事通信) (6日 17時 1分)
- 偵察機、再び嘉手納離陸 北朝鮮ミサイル(琉球新報) (6日 16時 2分)
- <北朝鮮ミサイル>テポドン2号発射は「失敗」 米国防長官(毎日新聞) (6日 14時 24分)
- 2発目のテポドン2号「発射の準備」…米テレビ報道(読売新聞) (6日 11時 27分)
- 北朝鮮ミサイル シーファー米大使が「挑発的」と非難(毎日新聞) (6日 10時 2分)
- 2発目のテポドン2号準備 米テレビ(共同通信) (6日 9時 53分)
- 「数日内にミサイル追加発射の可能性」米 WT 紙(YONHAP NEWS) (6日 9時 15分)
- <イラン核問題>攻撃は慎重に…軍部高官らプッシュ政権に(毎日新聞) (4日 13時 9分)
- 鯨保護でソナー禁止 米地裁、ハワイ沖演習で(共同通信) (4日 12時 47分)
- <米ロス連邦地裁>中周波ソナー使用の一時差し止め命令(毎日新聞) (4日 11時 51分)
- <前米国防務次官補>テポドン発射でも外交的解決を堅持(毎日新聞) (4日 10時 55分)
- 戦艦大和 沈められる直前の無傷の写真発見(毎日新聞) (4日 10時 8分)
- イラン空爆、成功しない 米軍幹部が政権に警告(共同通信) (4日 8時 38分)
- 歴史的1枚、戦艦「大和」出撃直前の全景写真見つか(読売新聞) (3日 22時 14分)
- <戦艦大和>沈められる直前の無傷の写真発見(毎日新聞) (3日 21時 45分)
- 最後の出撃、直前の大和＝対空防衛の機銃座、艦尾に＝未公表の写真、米国で発見(時事通信) (3日 20時 1分)
- 米国防総省高官、イラン核施設爆撃しても成功しないと大統領に警告＝雑誌(ロイター) (3日 16時 2分)
- 「ビジョンと勇気」称賛 クリントン氏が橋本氏追悼(共同通信) (3日 10時 8分)
- ザルカウィ後継者を承認 ピンラーディン容疑者？ ウェブで声明(産経新聞) (3日 3時 20分)

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**[ミサイル防衛]** [http://dailynews.yahoo.co.jp/fc/world/missile\\_defense\\_system/](http://dailynews.yahoo.co.jp/fc/world/missile_defense_system/)

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- 狙われれば迎撃＝強固なミサイル防衛構築－米大統領(時事通信) (7日 13時 1分)
- MD 配備計画を前倒し＝北ミサイル発射で－防衛庁方針(時事通信) (6日 23時 1分)
- 再発射、否定できない 北朝鮮ミサイルで統幕長(共同通信) (6日 17時 10分)
- 一刻も早く迎撃面整備を ミサイル発射で額賀長官(共同通信) (6日 13時 54分)
- テポドン発射時は実戦態勢＝米迎撃ミサイル、警戒を維持(時事通信) (6日 13時 1分)
- 2発目のテポドン2号準備 米テレビ(共同通信) (6日 9時 53分)
- 推進装置分離せず本体落下＝「完成度低く、逆に危険」－北朝鮮ミサイル・防衛庁(時事通信) (5日 19時 0分)
- <北朝鮮ミサイル>米政府、テポドン2号の失敗を確認(毎日新聞) (5日 11時 34分)
- 発射なら安保理付託 日米首脳会談(共同通信) (6月 30日 2時 4分)
- <日米首脳会談>「21世紀の同盟」宣言 対米最重視を強調(毎日新聞) (6月 30日 2時 2分)
- 米軍再編総括部会を新設 日米合同委(共同通信) (6月 29日 20時 13分)
- 平壤放送、日米 MD 協力を間接的に批判報道(YONHAP NEWS) (6月 27日 9時 18分)
- 最新鋭迎撃艦の早期派遣も 日米でテポドン警戒強化(共同通信) (6月 26日 10時 3分)
- 新レーダでテポドン監視 米、前倒しで試験運用(共同通信) (6月 25日 20時 54分)
- 【テポドン2号】米、ミサイル迎撃実験に再び成功 - 朝鮮日報 (6月 24日 22時 10分)
- テポドン迎撃に強い自信 米ミサイル防衛局長(共同通信) (6月 24日 12時 11分)
- <ミサイル拡散防止>テポドン2号に深刻な懸念 年次総会(毎日新聞) (6月 24日 11時 33分)

- <テポドン2号>距離ミサイルの迎撃は可能 米国防総省局長(毎日新聞) (6月24日 11時28分)
- 日米 ミサイル迎撃実験成功 「テポドン対応」には慎重論(産経新聞) (6月24日 3時8分)
- <ミサイル防衛>日米共同開発開始に伴い書簡2通を交換(毎日新聞) (6月24日 0時37分)

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**[核兵器]** [http://dailynews.yahoo.co.jp/fc/world/nuclear\\_weapons/](http://dailynews.yahoo.co.jp/fc/world/nuclear_weapons/)

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- ミサイル発射は攻撃ではない—北朝鮮外交官=韓国聯合ニュース(ロイター) (7日 11時56分)
- <北朝鮮ミサイル>米大統領、外交的解決目指す(毎日新聞) (7日 11時36分)
- 「ミサイルの成功は民族的誇り」北朝鮮外交官(YONHAP NEWS) (7日 9時14分)
- 北朝鮮ミサイルへの懸念明記、サミット議長総括で(読売新聞) (7日 6時48分)
- 安保理決議採択へ協力を=北の核・ミサイル、拡散防止を強化—米大統領(時事通信) (7日 3時1分)
- <北朝鮮ミサイル>制裁案巡り実務者協議を再開 国連安保理(毎日新聞) (7日 1時47分)
- ミサイル発射認める 今後も継続と北朝鮮(共同通信) (6日 17時42分)
- ミサイル発射凍結の約束には拘束されず—北朝鮮=KCNA(ロイター) (6日 16時6分)
- <北朝鮮ミサイル>関連資金、技術の移転防止を制裁草案に(毎日新聞) (6日 15時2分)
- ミサイルめぐり北朝鮮外務省報道官発言全文(YONHAP NEWS) (6日 15時0分)
- <北朝鮮ミサイル>外交的に開発放棄迫る方針強調 米大統領(毎日新聞) (6日 11時56分)
- 中口、戸惑いと反発 「6カ国」再開遠く 中国 枠組み崩壊防止に全力(西日本新聞) (6日 10時7分)
- 北朝鮮 米との対話へ賭け 米韓を分断する狙いも(西日本新聞) (6日 10時7分)
- 資金・技術移転阻止を要求=対北制裁案、日本が提示—安保理(時事通信) (6日 9時0分)
- 国連安保理が北朝鮮ミサイル発射で緊急協議、非難決議案を日本が策定(ロイター) (6日 7時21分)
- EU、北朝鮮のミサイル発射を強く非難(ロイター) (6日 6時57分)
- 北朝鮮「さらに孤立」 ミサイル発射で米大統領(共同通信) (6日 6時7分)
- <北朝鮮ミサイル>国連安保理が緊急の非公式協議(毎日新聞) (5日 20時23分)
- 戦略核で4年ぶり本格交渉 米口が検討着手(共同通信) (4日 11時32分)
- 米国に反撃すると北朝鮮発言は仮想的=米大統領報道官(ロイター) (4日 10時32分)
- 北朝鮮は、米国に対する抑止力を強化する=朝鮮中央通信社(ロイター) (3日 10時57分)

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**[ASAGUMO NEWS]** 朝雲新聞社 <http://www.asagumo-news.com/>

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7/3 「ニュース」更新。

イラク派遣部隊 /// 宿营地撤収が本格化 /// 車両など順次搬出 派遣隊員は空路出国へ /// イラク・ドキュメント(2006.6.20~6.26)  
 後送業務隊現地入り  
 「ウイニー」による情報流出 /// 異例の大量処分 海幕長は戒告 /// 停職、減給など 47人  
 SM3迎撃実験が成功(米)  
 「ましゅう」などインド洋へ  
 次世代型迎撃ミサイル /// 共同開発へ正式移行 日米で付属書締結  
 韓国空軍本部など訪問、交流 /// 空自中級幹部

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**[民間航空機関連 (ex-SJAC 三輪さん)]**

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[Reader's Voice] いつも英語についてコメントで恐縮です。

“Diamonds are only lumps of coal that stuck to their jobs.”ですが、「ダイヤモンドも 仕事するとなれば 石炭の塊である」

というのは、ちょっと苦しいように思います。ここは素直に、

「ダイヤモンドでも、単に自分の仕事に凝集している石炭の塊じゃないか」さらに意識すれば、

「みんなが仕事に必死に集中すれば、石炭の塊だった人たちがダイヤモンドになるのだ」というプラスのニュアンスがこめられているように思います。

フォーブスという、経済的に成功した人の言葉としては、このような解釈のほうがびったりくるのではないのでしょうか？

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2006年7月3日 23:42 AIA dailyLead [aia@dailylead.com](mailto:aia@dailylead.com) July 3, 2006 -

**「よい忠告はいつも無視されるものだけど、だからといってそれをしなくてよいという事ではないのヨ」**

英国作家 アガサ クリステイ

**Good advice is always certain to be ignored, but that's no reason not to give it.”**

--Agatha Christie, English crime fiction writer

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2006年7月1日 0:52 AIA dailyLead [aia@dailylead.com](mailto:aia@dailylead.com) June 30, 2006 -

**「単純な生活というのが合理的な生き方の第一歩になるでしょう」**

エレノア ルーズベルト 米国大統領夫人

**[編注] 「”少しシンプルに(単純化)”というのが理性的な生き方の～」**

**A little simplification would be the first step toward rational living, I think.”**

--Eleanor Roosevelt, former first lady and American political leader

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2006年7月3日 23:42 AIA dailyLead [aia@dailylead.com](mailto:aia@dailylead.com) July 3, 2006 -

**NASA ディスカバリー打上げを独立記念日(4日)に実施計画**

**NASA reschedules Discovery launch for Independence Day**

NASA has rescheduled the launch of Discovery for Tuesday. NASA expects a 60% chance of acceptable launch conditions. Clouds and storms made launching the shuttle on Saturday or Sunday unsafe. [Florida Today \(Melbourne\)](#) (7/3)

**EADS 社、2 トップを更迭**

(仏)ノエル・フォージェール→ルイ・ガロ ; (独)グスタフ・フンボルト→クリスチャン・ステライフ

**Top executives leave Airbus, EADS**

Airbus parent EADS has ousted two top executives in an effort to restore confidence in the company: EADS co-Chief Executive Noel Forgeard and Airbus head Gustav Humbert. Louis Gallois, who leads French rail operator SNCF, will replace Forgeard. Christian Streiff, a former executive with a building materials firm, will replace Humbert. [The Washington Post/Associated Press](#) (7/2), [The Wall Street Journal](#) (7/3)

**BAE はエアバス持株20%堅持の方向**

**BAE under pressure to hold Airbus stake:** BAE Systems' 20% stake in jetmaker Airbus is worth about half as much as the company had previously thought. BAE had decided to sell the stake six days before Airbus announced delays of the A380 superjumbo jet. Now BAE is under pressure to hold on to its stake. [The Guardian \(London\)](#) (7/3)

### **EADS 米陸軍向けヘリコプタ 13億ドル 受注**

欧州航空宇宙会社にとって、米軍からの受注でこれまでの最大の受注額。

### **EADS lands \$1.3 billion Army helicopter order**

The Army has awarded EADS a \$1.3 billion contract to build Light Utility Helicopters. The contract is the company's first large order from the U.S. military. EADS will expand its Mississippi plant to accommodate the program. [The Wall Street Journal](#) (7/1)

### **ボーイング社の信用回復にマクナーニ社長が果たした役割**

### **McNerney gets credit for improving credibility of Boeing**

Boeing CEO James McNerney has helped the company recover from an ethics scandals that plagued it for several years. Now the aerospace industry is waiting to see if he will improve the company's commercial airplane sales and help it win more defense contracts. [The Washington Post/Associated Press](#) (7/1)

### **エアライン 整備事業を外注する傾向すすむ**

重整備作業の外注率は2004年23%から2005年には30%に上昇

### **Maintenance outsourcing grows among U.S. carriers**

Some airlines are outsourcing maintenance of their planes to lower expenses. In 2005, U.S. carriers outsourced 30% of their heavy maintenance checks, up from 23% in 2004, according to the Air Transport Association. [Reuters](#) (7/3)

### **ノースエスト航空 乗員組合の改革(PFAAとの関係)**

### **Northwest attendants weigh changing unions**

**Northwest Airlines** flight attendants are deciding whether to change unions. Their current union, the Professional Flight Attendants Association, is now negotiating a contract agreement with the company. If the attendants vote to leave the PFAA for the Association of Flight Attendants, the new union would have one week to reach a contract agreement with management. [The Wall Street Journal](#) (7/1)

### **フィラデルフィア空港 規制時代の32年リース形態から5年毎のリースへ変更**

### **Regulation-era leases finally expire at Philadelphia airport**

New five-year lease agreements at Philadelphia International Airport will give the airport more control over its gates. The new leases require airlines to share gates they are not using fully and allow the airport to take back gates if an airline isn't using them, according to the airport's aviation director. The old 32-year leases, adopted in 1974 when airlines were federally regulated, expired last week. [The Philadelphia Inquirer](#) (7/1)

### **ダラス国際空港 駐機費からの収入増を期待**

### **D/FW hopes to boost parking revenue**

Dallas/Fort Worth International Airport has launched marketing efforts to increase its revenue from parking. Revenue from parking is expected to generate \$90.1 million this fiscal year, up 23% from 2000. [The Dallas Morning News](#) (6/30)

### ディスカバリー土曜日 打上げゴアヘッド 天候次第で確率は60%

#### Discovery gets approval for Saturday launch

Officials gave Discovery approval to launch on Saturday at 3:49 p.m, but poor weather may interfere with the launch. Forecasts show a 60% chance of clouds that could trigger bolts of lightning. All 21 members of the Mission Management Team endorsed the launch approval. Florida Today (Melbourne) (6/30)

### ボーイング社 訴訟費支払いで第2四半期利益を吐き出す結果

#### Boeing will take Q2 charge of up to \$1.15 billion

Costs from a federal ethics probe and delays in foreign surveillance aircraft contracts will wipe out Boeing's second-quarter profit, the company said. The investigation involved Boeing's improper acquisition of secret documents belonging to competitor Lockheed Martin. The delays for the aircraft program stem from computer integration problems. The New York Times (6/29)

### 飛行機は、かつて無いほど安全なものになっている

#### Airways are safest ever

The U.S. is on pace to cut accidents by 80%, thanks in part to a new safety device that helps pilots avoid accidentally flying into hilltops and mountains. The technology warns pilots when they are on a collision course with the terrain. Aviation industry experts credit the devices for making this the safest period ever for flying. USA TODAY (6/29)

### わずか5センチメートルがどうして A380 遅延という大問題に発展したのか

A380 の配線は全長 500km にも及ぶが、タルミがないので 5cm でも動かすと全体の生産遅延が6ヶ月にも及ぶ影響が検討されていたもの

#### How five centimeters unraveled Airbus' A380

This feature takes a look at a tiny wiring problem with the Airbus A380 that began a crisis that has seen profit warnings and spawned a power struggle within the jetmaking giant. The A380 contains 500 kilometers of wiring with no slack, so displacements as small as five centimeters touched off production delays the company expects to last six months. Reuters (6/30)

### EADS エアバス社内情報の外部漏洩を調査開始

今回の生産遅延については社内で生産問題検討していたものでどうして社外に情報が漏れたか原因情報源について調査が開始された。

#### EADS wants Airbus leak investigated

The parent of Airbus has asked French prosecutors to look into the leak of a document that outlined production problems at the jetmaker. The request indicates the internal dispute over production problems is becoming more intense. EADS has also started an internal investigation. The Wall Street Journal (6/30)

### ノースエスト航空 乗員組合との争議 2週間以内の協議再開を

#### Northwest may void attendants' contract in 14 days

A federal bankruptcy judge Thursday ruled Northwest Airlines may reject its flight attendants' contract, but not for 14 days. The judge told the two sides to resume talks to try to reach an agreement in the next two weeks. MarketWatch (6/29)

## 燃料タンクの爆発危険度：航空機では何重にも安全装置が既に設置

### Fuel tank flammability: Airlines say safeguards in place

The fuel tank issue is one of the few causes of a major aviation accident in recent decades that has not been fully addressed by mandatory improvements, according to the NTSB. The Air Transport Association says the industry has cut the risk to a safe level by implementing numerous safeguards. It says an exhaustive analysis demonstrates that further measures are unnecessary. The Wall Street Journal (6/29), The New York Times (6/30), USA TODAY (6/30), The Washington Post (6/30), Newsday (Long Island, N.Y.) (6/29)

[新刊紹介] 日経サイエンス 2006年8月号 <http://www.nikkei-science.com/>

2006年6月24日発売 1,400円(税込) 内容目次抜粋



### 宇宙最初の100万分の1秒

M. リーダン/W. A. ザイツ

米国立ブルックヘブン研究所で、この5年間、何百人もの科学者が宇宙誕生直後の状態を再現しようと試みてきた。実験に使うのは相対論的重イオン衝突型加速器(Relativistic Heavy Ion Collider)。頭文字をとって「RHIC(リック)」と呼ばれる新鋭の加速器だ。ほぼ光速で互いに反対方向に飛ぶ金の原子核どうしを正面衝突させ、ビッグバンから数マイクロ秒間の超高エネルギー状態をシミュレーションする。

そのころ宇宙は、クォークやグルーオンという粒子が激しく動き回って衝突を繰り返す「クォーク・グルーオン・プラズマ」という超高温超高密度の状態だった。温度は数兆度、つまり太陽中心部の10万倍以上に達す

るほど熱く、微量に含まれる光子や電子などの小質量の素粒子が“スパイス”になっていた。

実験前、クォーク・グルーオン・プラズマはガスのようなのだと予想されていたが、ところが実際には、粘性がほとんどまったくない理想の液体のように振る舞うことが判明した。この結果に物理学者は驚いた。これまで築き上げてきた宇宙初期のモデルは再考を迫られることになる。クォークとグルーオンの振る舞いを探るため、これまで多数のシミュレーション実験が実施されているが、計算する際に仮定していた条件も見直す必要が出てきた。

### 100m級超大型望遠鏡に挑む

R. ギルモツイ

南米チリの高地にあるパラナル天文台。夜、1日の仕事を終えて“デッキ”に上がって過ごすのが私にとって最高のひとときだ。

“デッキ”とは口径8mの望遠鏡4基からなる超大型望遠鏡VLT(Very Large Telescope)が立つ台のこと。満天の星空の下、天体ドーム群は滑らかに動き、その横で私はパイプをふかす。ほの白い光を放つ地平線を背景に、天文台を取り囲む乾燥した大地が黒いシルエットとして

浮かび上がる。

私はドーム群を見上げては感嘆の念を新たに、このプロジェクトに参加できた幸運をかみしめる。VLTは世界最高の望遠鏡セットだ。430トンに達する巨大な機械が4基、天を見つめながら回転する。あたかも星々を相手にバレエを踊っているかのようだ。

VLTはケック望遠鏡やハッブル宇宙望遠鏡、VLA(Very Large Array,

米ニューメキシコ州にある電波望遠鏡)などの最先端の大望遠鏡と同様、人類文明の1つの到達点を示す。VLT の各部を見れば、この望遠鏡が多くの人々の血と汗の結晶であることがわかるはずだ。

しかし、天文学の歩みはとどまることを知らない。VLT が完成するや“次”の検討が始まった。口径が 25m, 30m さらには 100m に達する超大型望遠鏡だ。100m 級望遠鏡は OWL という。フクロウ(owl)のように暗闇を見通す眼を持ち、1基でパラナル天文台のデッキを占有するほどの圧倒的な大きさ(Overwhelmingly Large)になることから名が付いた。私(著者)も OWL 計画に参加している。

科学では新しい実験機器の登場によって謎解きが進むと同時に、新たな謎がもたらされる。最新鋭の口径8~10m 級の望遠鏡でも、その稼働によって、新たな天文学上の重要テーマが浮かび上がってきた。例えば、他の恒星系の地球型惑星の組成分析と生命の徴候の探索、宇宙で最初に誕生した銀河の観測、暗黒物質と暗黒エネルギーの性質を理解すること、探査機が送られていない太陽系内の多数の天体を撮影することなどだ。それには今より何百倍、何千倍もの性能を備えた新世代の巨大光学望遠鏡が不可欠になる。

2006.06 Goddard View Vol.2 Issue 10 NASA GSFC(Goddard Space Flight Center)の隔週発行ニュース

