

[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

[What's New] 新着アップロード 下記、NISTEP より寄贈、感謝

「科学技術動向」 2006.5 No.62 (日本版 GPS 計画、米台共同の気象・電離層観測衛星群それぞれの内容は上記ホームページ参照)

[Conference] 2006.6.7-9 '06 画像センシング展

<http://www.seiki-tsushin.com/sensing/>

第12回画像センシングシンポジウム:SSII06併設  
**'06 画像センシング展**  
'06 Exhibition on Sensing via Image Information  
2006.6.7 (wed) > 9 (fri) AM10:00 > PM5:00  
at PACIFICO YOKOHAMA 同時開催: 光ナノテクフェア2006

English  
概要 併設コーナー  
今年度出展社  
昨年度出展社  
資料請求ガイドブック  
出展要項  
NEW> 出展企業セミナー  
NEW> 光応用技術シンポジウム Senspec2006

◆会期: 2006年6月7日(水)-9日(金)  
10:00-17:00  
◆会場: パシフィコ横浜

TOPICS

5/2 ●●● >>> 招待状返信先変更フォーム<<<< ●●●  
5/1 ● 出展申し込み207社464小間  
過去最大規模!  
4/27 ● 出展企業向け直販一式UP  
4/16 ● 出展企業セミナー、光応用技術シンポジウムSenspec2006詳細更新  
● 条件付きでご出展可能です。  
詳細は[募集要項](#)までお問い合わせください。

第12回画像センシングシンポジウム SSII06 併催



<http://www.ssi.jp/>

[Conference] 2006.6.11-14 24<sup>th</sup> Communications Satellite Systems, San Diego

AIAA American Institute of Aeronautics and Astronautics

# AIAA Event Update

24th AIAA International Communications Satellite Systems Conference (ICSSC) and 4th Ann International Satellite & Communications (ISCe) Conference and Expo



ICSSC 2006 - "Bridging to the Future."

24<sup>th</sup> AIAA INTERNATIONAL COMMUNICATIONS SATELLITE SYSTEMS CONFERENCE (ICSSC-2006)

11-14 June 2006  
San Diego Hilton Resort at Mission Bay  
San Diego, California

[Conference] 2006.6.14 Eurosatory 2006



14 June 2006  
Parc d'expositions, Villepinte  
Paris-Nord, France



### EUROSATORY 2006 INTERNATIONAL CONFERENCE ON HOMELAND DEFENCE

Click here for more information and to  
[REGISTER for the CONFERENCE](#)

The first Eurosatory International Conference on Homeland Defence is aimed at examining the increasingly relevant role of the armed forces and technology in managing homeland risks relating to terrorism and natural disaster.

Supporting sponsor  
**smiths**  
Smiths Detection

[Conference] 2006.6.19-23 SPACEOPS 2006, Rome, Italy



2006年6月1日 人民網日本語版

#### 中国独自開発のコンピューター機「ARJ21」、試作へ

中国国防科学技術工業委員会は 31 日午後、中国が独自の知的財産権を保有する、新型ターボファンエンジン搭載のコンピュータ機「ARJ21」の開発作業で、カギとなる技術的課題がすでに克服されたと発表した。機体の詳細設計段階における作業任務が完成し、今後は本格的な試作段階に入る。(編集 ID)



写真:CG で描かれた ARJ21 の完成予想図

2006/06/02 10:56 朝鮮日報 東京=鄭権鉉(チョン・グオンヒョン)特派員

#### 「テポドン 2 号、発射実験準備が最終段階に」

日本の産経新聞は 1 日、日米両国政府は北朝鮮の長距離弾道ミサイル「テポドン 2 号」の発射実験準備が最終段階に入っていると判断し、発射実験に備え警戒レベルを大幅に強化したと報じた。これに対し韓国政府消息筋は、「テポドン 2 号の発射実験準備の動きについて注視しているが、まだミサイルが発射台に運ばれたり、

液体燃料が注入されるといった、発射実験が差し迫っている兆候は確認できない」とした。

産経新聞は日本政府消息筋の話引用し、「ミサイル燃料が注入されたかどうかについては不明だが、発射実験準備が最終段階に入っている」とし、初期より警戒レベルを上げていると報じた。

これを受け米軍は偵察機による監視飛行を行っており、日本の防衛庁もイージス艦を周辺海域に配置して、陸上・海上・航空各自衛隊の統合情報システムを運用するなど情報収集に当たっている。

防衛庁は海上自衛隊佐世保基地に配備しているイージス艦「ちようかい」を派遣し、航空自衛隊の電子測定機「YS-11E」を東海（日本海）側に展開させ情報収集に当たっている。自衛隊の高級

[http://japanese.chosun.com/site/data/html\\_dir/2006/06/02/20060602000027.html](http://japanese.chosun.com/site/data/html_dir/2006/06/02/20060602000027.html)

23 May 2006 [globalsecurity.org/space/](http://globalsecurity.org/space/)

**ナイジェリアは積極的に宇宙計画を追求**

### **Nigeria Aggressively Pursues Space Program**

By Gilbert da Costa Abuja

Nigeria's ambitious space program has often attracted criticism from those who claim the money is better spent to address poverty in a country where more than 70 percent of the people live on less than \$1 a day. Despite the criticism, some officials say space technology is an effective tool to fight poverty.

Nigeria launched its first satellite three years ago, becoming only the second country in sub-Saharan Africa to do so. The other space program in the region is in South Africa.

A communications satellite that will give even remote villagers access to the Internet is to be launched in 2007. A second observation satellite is planned for 2009.

Robert Boroffice, head of the space agency of Nigeria, says Nigeria's space program has been a success.

"So far so good, it is a success story," he said. "We are able to launch an earth observation satellite. We are operating the satellite by ourselves. We are deriving imageries, which we are using for our national projects. We are also selling these images all over the world, very few in Africa, most of them are sold to Europe and America and we have been recognized as a leading space agency in Africa, as a result of which many international organizations and United Nations organizations that need African voice, have been

<http://www.globalsecurity.org/space/library/news/2006/space-060523-voa01.htm>

幹部の海外出張も相次いで取りやめになっている。

米軍はすでに 5 月末、最先端の探知装備を装着し、ミサイルの発射を探知して軌跡を追う高性能偵察機「RC-135S」（コブラボール）を沖縄県の嘉手納基地に派遣し、監視飛行も行っている。テポドン 2 号は米アラスカ州まで射程に入る、射程距離 6,700 キロの長距離弾道ミサイルとされ、北朝鮮は昨年夏に開発を終えたと言われている。

contacting us and inviting us to represent the interest of Africa."

The observation satellite monitors Nigeria's vanishing forest resource and often vandalized oil pipelines as well as a host of other uses including improving agricultural practices. It also watches for natural disasters such as fires and floods.

Nigeria recently outlined a program to land on the moon by 2030.

Professor Boroffice says Nigeria's space initiative has been aggressive.

"We are training people," he said. "We have one of our staff in Italy, doing a Master's in global positioning system. We are in collaboration with other organizations where we train our staff, even in marketing. So, we have put these in place. We have a very aggressive capacity building program because we believe that for these programs to be sustainable, we must have the indigenous capacity to run and manage them."

Nigeria's dream of earning substantial revenue from its space program already appears to be a reality. An Arab company has signed a \$250 million deal to use the communications satellite.

Boroffice, a former biology professor, says space technology can lift Nigeria out of poverty by acting as a catalyst for socio-economic transformation.

**[核バンカー・バスタのアニメーションの紹介] Union of Concerned Scientist**

**核バンカーバスタ、頑健な地球貫通弾ペネトレータ**

**The Nuclear Bunker Buster, Robust Nuclear Earth Penetrator**

[http://www.ucsusa.org/global\\_security/nuclear\\_weapons/nuclear-bunker-buster-mep-animation.html](http://www.ucsusa.org/global_security/nuclear_weapons/nuclear-bunker-buster-mep-animation.html)

May 29, 2006 Beijing (AFP)

**中国とインドは軍事連携を拡大することで合意**

**China and India to sign accord to expand military ties**

China and India signed an agreement Tuesday to expand defence ties, the Chinese foreign ministry said, in a deal that is expected to see the neighbors conduct more military training exercises. The memorandum of understanding was signed during a visit by Indian Defence Minister Pranab Mukherjee to Beijing, foreign ministry

spokesman Liu Jianchao told reporters.



[http://www.spacewar.com/reports/China\\_and\\_India\\_to\\_sign\\_accord\\_to\\_expand\\_military\\_ties.html](http://www.spacewar.com/reports/China_and_India_to_sign_accord_to_expand_military_ties.html)

May 31, 2006 Washington (UPI)

**米海軍はターミナル下降迎撃を発表**

**US Navy Announces Terminal Descent Intercept**

U.S. sea-based ballistic missile defence capabilities demonstrated a new engagement aspect on May 24 when a Standard Missile 2 Block IV successfully intercepted a ballistic missile target in its terminal descent or endo-atmospheric phase, Jane's Navy International reported May 26.



[http://www.spacewar.com/reports/US\\_Navy\\_Announces\\_Terminal\\_Descent\\_Intercept.html](http://www.spacewar.com/reports/US_Navy_Announces_Terminal_Descent_Intercept.html)

May 31, 2006 Washington (UPI) Spacewar.com

**インドは Agni III テストをキャンセル**

**India Cancels Agni III Test**

The Indian government has decided to cancel the first test-firing of its Agni III inter-continental ballistic missile. The Agni III was the pride of the Indian strategic missile program and was designed to have a range of at least 1,400 miles, and possibly as far as 2,000 miles, giving it the capability of hitting cities across southern China with nuclear weapons.



[http://www.spacewar.com/reports/India\\_Cancels\\_Agni\\_III\\_Test.html](http://www.spacewar.com/reports/India_Cancels_Agni_III_Test.html)

May 31, 2006 St Louis (SPX) Spacewar.com

**ボーイングは F-15 ミッションプランニングソフトを米空軍向けに開発する予定**

**Boeing To Develop F-15 Mission Planning Software For USAF**

Boeing received a \$13.2 million U.S. Air Force contract to develop new F-15 mission planning software under the Mission Planning

Enterprise Contract (MPEC) program.

[http://www.spacewar.com/reports/Boeing\\_To\\_Develop\\_F\\_15\\_Mission\\_Planning\\_Software\\_For\\_USAF.html](http://www.spacewar.com/reports/Boeing_To_Develop_F_15_Mission_Planning_Software_For_USAF.html)

May 31, 2006 Rolling Meadows IL (SPX) Spacewar.com

**NGC は新しい光学監視&検出システムのフライトテストを指揮する予定**

**NGC Conducting Flight Tests Of New Electro-Optical Surveillance And Detection System**

Northrop Grumman has announced that flight testing is under way for the new Electro-Optical Surveillance and Detection System

(EOSDS) intended for the U.K. Ministry of Defence's NIMROD MRA-4 aircraft.

[http://www.spacewar.com/reports/NGC\\_Conducting\\_Flight\\_Tests\\_Of\\_New\\_Electro\\_Optical\\_Surveillance\\_And\\_Detection\\_System.html](http://www.spacewar.com/reports/NGC_Conducting_Flight_Tests_Of_New_Electro_Optical_Surveillance_And_Detection_System.html)

5/22/2006 - 5/26/2006

AstroExpo.com Top Weekly News

## Business News

[Orbital Awarded \\$23 Million Contract by U.S. Air Force for Two Operationally Responsive Space Launch Missions](#)

[Lockheed Martin and EADS Astrium to Team on Future Satellite Navigation Systems](#)

[Mobile Satellite Ventures Accelerates North American Build Of Next Generation Satellites](#)

[SPACEHAB Subsidiary Obtains New Payload Processing Contract](#)

[Lockheed Martin to Begin Work on Hybrid Launch Vehicle for U.S. Air Force](#)

## International Space News

[EADS Astrium Develops its Links with the Brazilian Space Industry](#)

[International Space Station Status Report: SS06-025](#)

[Chinese Scientists Initiate Global Research Program on "Digital Earth"](#)

[China to Launch Moon Probe Next April](#)

[Russia, Kazakhstan to Develop Unique Space System](#)

## Launch News

[NASA Expendable Launch Vehicle Status Report: E06-016](#)

[NASA Sets Space Shuttle Program Update on May 31](#)

[Boeing Launches Next Generation Earth Observation Satellite for NASA/NOAA](#)

[China to Develop New Space Transportation System](#)

[Arianespace to launch W2M for Eutelsat](#)

May 29, 2006 Guildford, England (SPX)

サリー衛星は Sira 社から画像関連事業を取得

### Surrey Satellite Acquires Enhanced Imaging From Sira

by Staff Writers

As part of its long-term growth strategy for "changing the economics of space," Surrey Satellite Technology Limited announced Sunday it has acquired space imagery and scientific instrument activities of the Sira Group.

The acquisition is intended to strengthen SSTL's position as a vertically integrated manufacturer of space imaging systems, including satellite platforms, instrumentation payloads, ground stations and image processing as a satellite mission prime contractor, the company said in a statement.

SSTL said it plans to broaden its involvement in European science and technology programs. Sira already has developed many electro-optical instruments, including hyperspectral imagers for environmental, commercial and military applications;

environmental ozone monitors; infrared fire and hot-spot detection imagers; space-debris-monitoring cameras, and satellite-to-satellite broadband optical communication.

In 2000, SSTL acquired Space Innovations Limited, a small satellite company, and Marconi Applied Technology's solar panel lay-down capability, both of which are now integrated.



Sira's modulation transfer function test equipment. Image credit: SSTL

[http://www.spacemart.com/reports/Surrey\\_Satellite\\_Acquires\\_Enhanced\\_Imaging\\_From\\_Sira.html](http://www.spacemart.com/reports/Surrey_Satellite_Acquires_Enhanced_Imaging_From_Sira.html)

May 27, 2006 Kourou, French Guyana (SPX)

最重量級アリアン5は滞りなくペイロードを軌道に上げる

### Heaviest Ariane 5 Payload Orbits Without A Hitch

by Staff Writers

Arianespace's heavy-lift Ariane 5 ECA launched on time and without difficulty late Saturday afternoon, delivering two large telecom satellites into geostationary transfer orbits. The rocket lifted off from its pad at Europe's Spaceport at the start of a 45 minute launch window at 6:09 p.m. local time.



A picture-perfect liftoff. Image credit: Arianespace

[http://www.space-travel.com/reports/Heaviest\\_Ariane\\_5\\_Payload\\_Orbits\\_Without\\_A\\_Hitch.html](http://www.space-travel.com/reports/Heaviest_Ariane_5_Payload_Orbits_Without_A_Hitch.html)

May 29, 2006 Dulles VA (SPX)

米空軍はさらに多くの打上げをオービタルに発注

### Air Force Orders More Space Launches From Orbital

by Staff Writers

Dulles VA (SPX) May 29, 2006

Orbital Sciences Corp. announced it has received a \$23 million U.S. Air Force contract for two Minotaur I space launch vehicles under the Rocket System Launch Program. The two missions will launch the TacSat-2 and TacSat-3 satellites in 2006 and 2007, respectively, the company said in a statement.

The TacSat-2 launch is designed to demonstrate Orbital's ability to carry out an operationally responsive launch service just six months after the contract award. The second launch is scheduled to take place within a year of the first launch, currently scheduled for September 2007.

Last month, Orbital launched six FORMOSAT satellites for the Republic of Taiwan into low-Earth orbit aboard a Minotaur I rocket in a mission originating at Vandenberg Air Force Base in California. The TacSat-2 mission will be the sixth space launch of a Minotaur I rocket. All five previous missions were successful, the company's statement said.

TacSat-2 and -3 are among a series of experimental spacecraft designed to demonstrate new technologies and capabilities for providing responsive space-based support of military operations.

The TacSat series, plus the quick-reaction Minotaur I launches, are intended to become key parts of the U.S. military's effort to develop Operationally Responsive Space systems. The Air Force Research Laboratory at Kirtland Air Force Base in New Mexico is leading the TacSat-2 and -3 joint development teams, in partnerships that include space organizations from the Air Force, Navy and Army.

The rockets that will launch TacSat-2 and -3 are the seventh and eighth Minotaur I rockets to be ordered by the Air Force and are the 18th and 19th orders placed for the complete Minotaur family of launch vehicles.

The Minotaur I made its inaugural flight in January 2000, successfully delivering multiple small military and university satellites into orbit. Its second mission was carried out less than six months later with the launch of the MightySat II technology demonstration satellite for the AFRL in May 2000.

The most recent three missions were all conducted within a one-year period, beginning with the April 2005 launch of the XSS-11 spacecraft for AFRL. That mission was closely followed by the launch of a classified DARPA satellite in September 2005.



Image credit: Orbital Science Corp.

[http://www.space-travel.com/reports/Air\\_Force\\_Orders\\_More\\_Space\\_Launches\\_From\\_Orbital.html](http://www.space-travel.com/reports/Air_Force_Orders_More_Space_Launches_From_Orbital.html)

Moscow (AFP) May 26, 2006

ロシアの海面に半分沈んだ原子力潜水艦から衛星を打上げ

### Submerged Russian sub launches satellite

by Staff Writers

Russia on Friday put into orbit a satellite carried by a converted ballistic missile launched from a submerged nuclear submarine, the Russian navy said.

"The Northern Fleet on Friday at 10:50 pm (1850 GMT) went ahead with the launch of a scientific satellite Kompas-2 from the Barents Sea with the help of a Shtil launcher," a navy spokesman said.

The launch was carried out from the submarine Yekaterinburg commanded by Captain Sergei Rachug, he added.

The satellite will study atmospheric, volcanic and seismic phenomena.



[http://www.space-travel.com/reports/Submerged\\_Russian\\_sub\\_launches\\_satellite.html](http://www.space-travel.com/reports/Submerged_Russian_sub_launches_satellite.html)

18 May 2006 Jane's Defence Weekly- first posted to <http://jdw.janes.com>

ユーロファイター向け AESA レーダがフライトテスト実施

### AESA radar for Eurofighter flight tested

An active electronically scanned array (AESA) radar designed to equip the Eurofighter Typhoon fighter aircraft for the four launch

nations has successfully completed initial flight tests, EADS Defence Electronics said at the ILA 2006 air show in Berlin.

2006年5月30日 8:13 【CNET Japan 2006年05月30日】

隠したつもりが--AT&T、NSA 監視プログラム訴訟でうっかり情報公開

<http://japan.cnet.com/svc/nlt2?id=20124967>

米テクノロジー哲学者、コンピュータの過信に警鐘

<http://japan.cnet.com/svc/nlt2?id=20124787>

フォトレポート:アルゴリズムを利用して都市計画--学者がコンピュータの過信に警鐘

<http://japan.cnet.com/svc/nlt2?id=20125029>

NEC ビッグロブ、社長に現 NEC 取締役 執行役員専務の鈴木俊一氏が就任へ

<http://japan.cnet.com/svc/nlt2?id=20124567>

ソースネクスト、更新料無料のウイルス対策ソフト販売へ--シェア No.1 を目指す

<http://japan.cnet.com/svc/nlt2?id=20125268>

九十九電機、2 足歩行ロボットキット新作、力強くスピーディな動作に進化

<http://japan.cnet.com/svc/nlt2?id=20124587>

自動車各社 暗視装置の導入拡大 事故防止へ 300メートル先も確認

<http://japan.cnet.com/svc/nlt2?id=20124547>

2006年5月29日 8:20 【CNET Japan 2006年05月29日】

米下院司法委員会、「ネット中立性」関連法案を可決

<http://japan.cnet.com/svc/nlt2?id=20124107>

インテル、印に格安パソコン AMD に対抗 新工場建設も

<http://japan.cnet.com/svc/nlt2?id=20123287>

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## Aerospace Daily & Defense Report May 30, 2006

What's Ahead in Aerospace & Defense

**惑星学会はNASAの科学予算削減を中止するように議会に働きかける活動中**

### *Planetary Society mounts lobbying effort to reverse NASA science cuts*

LOBBYING CONGRESS: The Planetary Society is mounting an extensive lobbying effort to convince budget appropriators in Congress to reverse the Bush administration's proposed cuts to science in its fiscal 2007 NASA budget request. "We stand at a crossroads with planetary exploration," Planetary Society Director Louis Freedman says. "The next NASA budget will determine whether we continue an exploration program that has yielded stunning results and promises even greater adventures in the future,

or we turn our backs on the universe that awaits us." The FY '07 request cuts roughly \$3 billion from science over the next few years, plus more from the agency's exploration budget, to address a multibillion-dollar shortfall in the space shuttle budget. The Planetary Society is urging the public to contact the appropriations committees in the House and Senate, and has taken out major print ads featuring a trash can and the slogan, "Don't Let Space Science Get Trashed!"

**NASAはDARTのミッション失敗から学んだ教訓を利用することに**

### *NASA to use lessons learned from DART mission failure*

BENCHMARKING: NASA exploration managers are poised to incorporate lessons learned from last year's failure of the Demonstration of Autonomous Rendezvous Technology (DART) mission, largely because they are no further along than a "benchmarking mode" that by definition looks for what actually works. "We have canvassed both industry and academia for the most mature, state-of-the-art applicable technologies that we can identify, and we're making sure those are accounted for in the systems-level trades we'll be doing as we go on toward preliminary design review in 1.5-2 years," says Jeff Hanley, Project

Constellation program manager, who concedes he hasn't seen the DART failure report yet. "So we want to make sure that we've pulled in the most mature - but still most cutting-edge - technologies that industry is currently using." The DART mission aimed to demonstrate autonomous rendezvous and docking sensors and software that likely will be needed to assemble and supply Project Constellation's suite of lunar exploration vehicles and habitats. But Hanley stresses that the technology sweep, headed by astronaut John Grunsfeld, isn't limited to state-of-the-art space hardware. "We are looking at alternatives," he says.

**企業のコンピューティング・ソリューションは間違った方向に行った、スタディは述べる**

### *Firms' computing solutions misguided, study says*

COMPUTING SOLUTIONS: Many companies are investing in enterprise-wide computing solutions that are outdated,

overengineered, overpriced and underperforming, according to Gartner Inc. Businesses are expected to waste \$10 ...

**競争で搭載型GPSの価格が下がると企業は述べる**

### *Competition to drive down vehicle GPS prices, firm says*

VEHICLE GPS PRICES: Gartner Inc. says growing competition for vehicle navigation systems using Global Positioning System in

autos will drive down prices and turn the products into ...

国防省はイスラエルの中国への軍事援助の縮減に不満

#### DOD not satisfied with Israel military cutbacks to China

COMFORT LEVEL: Israel may have started to cut back on military assistance it provides to China last year, but the U.S. Defense

Department still isn't satisfied that . . .

国防省：中国が攻撃的に軍事変革

#### DOD: Chinese military transforming offensively

CHINA RISING: China's army is in the process of a long-term transformation from a mass force designed for protracted wars of

attrition on its territory to a . . .

国防総省はUH-60M ブラックホークの能力向上計画に署名

#### Pentagon signs off on UH-60M Black Hawk Upgrade program

UH-60M DAB: Pentagon acquisition chief Kenneth Krieg signed an acquisition decision memorandum (ADM) on May 24 approving

the Army's plans for the UH-60M Black Hawk Upgrade program. . . .

JSF のエンジンは加熱問題がある

#### Joint Strike Fighter engine has overheating problems

The primary engine for the F-35B Joint Strike Fighter is running 190 degrees Fahrenheit "above our desired temperature" as Pratt &

Whitney specialists work to squeeze more . . .

NASA は企業に月着陸機のコンセプトを求める

#### NASA calls on industry for lunar lander concepts

While NASA's field centers work on in-house concepts for lunar landers, the agency's Johnson Space Center (JSC) has released a request for information (RFI) to industry calling for its ideas as well.

NASA's internal Exploration Systems Architecture Study (ESAS) laid much of the conceptual groundwork for the systems the agency plans to use for returning astronauts to the moon by 2018. The working name for the lander is the Lunar Surface Access Module (LSAM). After being transported from low-Earth orbit to lunar orbit by the Crew Exploration Vehicle (CEV), the LSAM would transport both crew and cargo to the surface.

Using the ESAS LSAM as a departure point, the internal NASA teams are investigating "the widest possible trade space for innovative solutions," according to the RFI. Industry is asked to work with the same LSAM requirements being used by the NASA teams, which include:

- Performing lunar orbit insertion, de-orbit, powered descent, hazard avoidance, terminal landing, ascent and rendezvous.

- **Supporting a crew of four.**
- **Carrying a minimum of 500 kilograms (1,102 pounds) in science/technology payload to the lunar surface.**
- **Returning a minimum payload of 100 kilograms (220 pounds) from the lunar surface to Earth.**
- **Incorporating a surface airlock.**

NASA also has a series of lower-priority "desirements" for the LSAM, which include keeping systems common with the CEV, reusability, "green" propellants, and leaving behind on the moon's surface only hardware that can be used to incrementally build a lunar outpost.

NASA says it will review all submitted concepts and may incorporate all or part of them into its planning for future studies. Responses are due to JSC by June 23. - Jefferson Morris (jeff\_morris@AviationNow.com)

**司法省は Intelsat と PanAmSat の合併を認める**

**Justice Department clears Intelsat-PanAmSat merger**

The U.S. Justice Department has cleared the proposed merger of satellite operators Intelsat and PanAmSat, leaving only the Federal Communications Commission to sign off before the \$3.2 billion deal can go through.

Intelsat Ltd. announced its intention to acquire long-time competitor PanAmSat last August. The company said May 26 that the Justice Department had closed its antitrust investigation of the proposed merger and is not seeking any conditions or making any comments on it. FCC's review still is under way. Under the merger agreement, Intelsat will acquire

PanAmSat for \$25 per share in cash, totaling \$3.2 billion. In addition, roughly another \$3.2 billion in debt from PanAmSat and

its subsidiaries will remain outstanding or be refinanced. The closing of the transaction is contingent on both FCC approval and the receipt of financing by Intelsat.

With only one regulatory hurdle left to clear, Intelsat CEO David McGlade said the companies are moving "full speed ahead" with integration planning and preparations. "We will be finalizing our financing over the next few weeks, and should be in a position to close soon after receiving FCC approval," he said in a statement.

The merged company will have a combined fleet of 53 communications satellites. Intelsat itself was acquired last year for \$5 billion by a group of private equity investors led by Zeus Holdings Ltd.

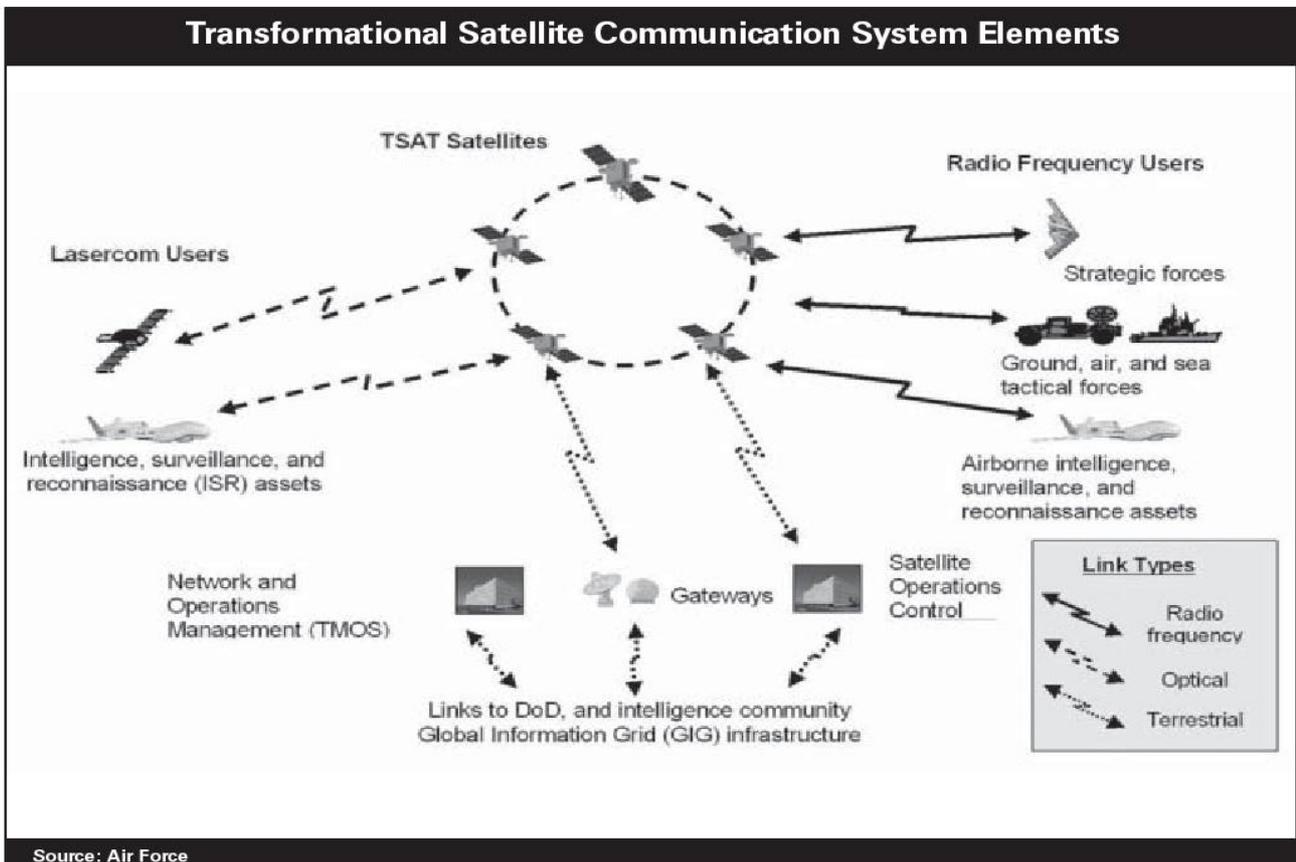
**ブッシュ、ブレア ; 英国は JSF の運用上の主権を維持する**

**Bush, Blair: U.K. will keep JSF 'operational sovereignty'**

President Bush and U.K. Prime Minister Tony Blair announced May 26 that the two countries agree Britain will have "the ability to

successfully operate, upgrade, employ and . . . .

Aerospace Daily & Defense Report May 26, 2006



Source: Air Force

ミサイル防衛は約束手形になる可能性が高い

**Weldon: Missile defense likely future bill payer**

Rep. Curt Weldon (R-Pa.), who could become the next chairman of the House Armed Services Committee, predicted May 25 that

missile defense programs will become the "bill . . .

ボーイングは国務省の武器リストから宇宙向け太陽電池をはずすように願う

**Boeing wants space solar cells off State Department's munitions list**

Boeing's Spectrolab division believes it is making headway in its attempt to convince the U.S. government to take its space-qualified solar cells off the State Department's munitions list and put them back under Commerce Department control.

"I've been at Washington, D.C., and talked to the Department of State a number of times and we're hoping everything is going to come under Department of Commerce jurisdiction shortly," Spectrolab President David Lillington told The DAILY. Spectrolab produces high-efficiency solar cells for both spacecraft and terrestrial applications. Most of the company's solar cell products came off the State Department's munitions list in 2002. Then, in March 2005, all space-qualified solar cells were put back on the list to prevent them from winding up on foreign military satellites without State Department approval.

The munitions export regulations also apply to Cell Interconnect Cover (CIC) subassemblies, which creates complications when Spectrolab tries to sell lower-level components to international customers intent on building their own solar panels.

**Higher efficiencies**

Spectrolab stresses that it is complying fully with all regulations for exporting hardware and technical data. "But it certainly makes the business cycle longer and more difficult," Lillington said. "There are some customers who have said that they will, over the longer term, develop strategies to eliminate any Department of State products from their satellites."

Spectrolab's solar cells power 60 percent all of the satellites in Earth orbit and all the solar panels operating around Mars, including the Mars Exploration Rovers on the surface. Its current Ultra Triple Junction solar cell converts about 28.3 percent of incoming solar energy into electricity, with the rest lost as heat. The company will introduce a 30-percent efficient cell next year, and hopes to push efficiency to 33 percent by 2010. Further out, "in the 10- to 15-year timeframe, we are looking at much more speculative approaches that will achieve cells in the 40-percent plus efficiency stage," Lillington said. - *Jefferson Morris (jeff\_morris@AviationNow.com)*

NATO 司令官：同盟国は行動には積極的だが、金は支払わない

**NATO commander: Alliance willing to act, but not spend**

NATO, which is trying to transform to a post-Cold War world, is hampered by the paradox that its member nations seem increasingly

willing to take on anti-terrorist . . .

海軍とミサイル防衛局は最初のターミナル海上型迎撃成功を発表

**Navy, MDA announce first terminal sea-based intercept**

The U.S. Navy and the Missile Defense Agency (MDA) said they conducted a successful ballistic missile defense (BMD) test May 24

of the intercept of a target . . .

L-3 は OSI システムズに\$125.6M を支払うよう命令された

**L-3 ordered to pay \$125.6M to OSI Systems**

L-3 MUST PAY: A federal jury in New York has ordered L-3

Communications to pay \$125.6 million in damages to OSI Systems

for breaching its fiduciary duties . . .

### GOES-N 衛星は打上げの成功に続き所定の軌道に

#### *GOES-N sat maneuvered following successful launch*

The NOAA/Boeing GOES-N satellite is being maneuvered into its operational slot following a successful May 24 launch from Cape Canaveral on board a Boeing Delta IV.

It was only the second flight for the Delta IV Medium Plus configuration, with two ATK 250,000-pound thrust solid rocket boosters in addition to the Pratt & Whitney Rocketdyne RS-68 oxygen hydrogen engine. It was the fifth Delta IV flight overall.

The \$481 million Geostationary Operational Environmental Satellite mission marks the first in a series of three GOES-Ntype spacecraft with 1.5-kilometer imaging resolution compared with 3 kilometers for the older Space Systems/Loral spacecraft operational since the mid 1990s. The new spacecraft also has many other improvements, especially a more stable imaging capability as well as new electrical capabilities to allow full function during solar eclipse periods that occur twice annually.

The Delta IV lifted off from Launch Complex 37 at 6:11 p.m.

Eastern time after a flawless countdown. But the flight was preceded by a year of technical and weather delays and a six-month labor strike at Boeing. Since GOES-N will initially be an in-orbit spare, the delay has not affected critical weather monitoring capability.

The successful launch gives NOAA three fully operational GOES spacecraft to monitor the Pacific and western U.S. and Atlantic and Eastern U.S., with a spare in the middle to backstop either position.

The Delta IV's Pratt & Whitney RL10B-2 upper stage engine completed a complex three-burn profile to place GOES-N into a highly elliptical transfer orbit about 4 hours after liftoff. The satellite's 110-pound thrust engine then began maneuvering the spacecraft to geostationary altitude, where it will eventually be parked at 90 degrees west longitude for a checkout of several months.

### リモセン企業は Space Imaging の買収の後、安定に向かう、スタディは述べる

#### *Remote sensing industry stabilizing after Space Imaging buy, study says*

A new study from Forecast International predicts that the U.S. commercial remote sensing industry is entering a period of stability following the acquisition of Space Imaging by Orbimage, which has reduced the number of major U.S. industry players to two and will take pressure off the government to prop up the industrial base.

Forecast International projects worldwide deliveries of approximately 139 imaging satellites worth \$16.3 billion over the next 10 years. But despite the long list of remote sensing spacecraft slated to launch over the next decade, few new players are expected to enter the commercial operator market, the study says.

### ハネウェルは Class I UAV を FCS 用に開発する契約で\$61M を獲得

#### *Honeywell wins \$61M contract to develop Class I UAVS for FCS*

Honeywell Defense & Space Electronic Systems has won a \$61 million contract to develop the Class I Unmanned Aerial Vehicle

System (UAVS) for the U.S. Army's Future . . .

### イスラエルはレイセオンと Rafael を新しいミサイル迎撃機に選定

#### *Israel taps Raytheon, Rafael for new missile interceptor*

The Israel Missile Defense Organization (IMDO) has chosen Raytheon and Rafael to develop a new terminal-phase interceptor

for destroying short-range ballistic missiles, Raytheon announced May 25. . . .

### アリアンスペースは W2M 衛星を打上げる契約を獲得

#### *Arianespace wins contract to launch W2M spacecraft*

W2M AWARD: Eutelsat has awarded Arianespace a contract to launch its W2M spacecraft, ordered earlier this year. The launch,

the fifth won by the company this year, is set for 2008.

### 下院は FY'07DHS 国土安全省の歳出予算通過に動く

#### House moves to pass FY '07 DHS appropriations

DHS FUNDS: The House moved May 25 to pass its fiscal 2007 Homeland Security Department appropriations bill. At the press

time, the chamber was set to vote . . .

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2006 年 5 月 31 日 時事通信社「世界週報」 6 月 13 日号 [目次抜粋]

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現代テロリズム考／核テロへの自由民主社会の対応(3)(小林宏晨)

企業の国際戦略／日立製作所／国際統一規格の IC カードでビッグビジネスを狙う(森 玲)

<シリーズ>

日本と世界の安全保障／航空自衛隊改編案への注文(潮 匡人)

今週の軍事情報／MOP 貫徹爆弾の意味するもの(江畑謙介)

知られざる自衛隊／情報流出に再発防止策始動(風間 實)

海外経済ウオッチ／欧州／拡大に「急ブレーキ」を踏んだ EU(佐藤経明)

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

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#### [NEWS]

5/31 自民党の「宇宙基本法案(仮称)」の概要があきらかに(読)

5/31 はやぶさのイオンエンジン起動試験に成功(毎)

5/31 はやぶさプロジェクトが Space Pioneer Award を受賞(ISAS)

#### [EVENT]

6/21 JAXAi マンスリートーク

「宇宙への芸術的アプローチ」京都市立芸術大学 福嶋敬恭氏

6/18 東京理科大学創立 125 周年記念サイエンスフェア 記念講演会

「古代の遺跡から、宇宙まで」的川泰宣氏ほか(定員締切済),日本科学未来館

6/5 応募締切:第 5 回君が作る宇宙ミッション,7/31-8/4,ISAS 相模原

#### [学会]

6/4-11 第 25 回宇宙科学と技術の国際シンポジウム(ISTS),金沢

6/4 IAA Workshop on Systems & Technologies to enable

the sustainable Exploration & Development of Space,金沢

6/3 申込締切:The 2nd Hayabusa Symposium,7/12-14,東大(浅野キャンパス)

#### [T V] ディスカバリチャンネル

6/2 0100-0200,0900-1000,1800-1900 土星探査機カッシーニ

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[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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- 小惑星「イトカワ」の全体像(時事通信) (2日10時18分)
- 探査機「はやぶさ」の小惑星イトカワ解析、米誌が特集(読売新聞) (2日7時17分)
- 小惑星、内部はすかすか はやぶさ探査データで判明(共同通信) (2日6時11分)
- 衝突破片集まりラッコ形に＝内部すかすか、表面に巨岩や砂利－小惑星「イトカワ」(時事通信) (2日4時30分)
- <探査機はやぶさ>小惑星「イトカワ」の詳細構造を解析(毎日新聞) (2日3時7分)
- <探査機>「はやぶさ」のイオンエンジン起動試験に成功(毎日新聞) (5月31日19時21分)

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

- 米陸軍、決壊の責任認める ニューオーリンズの堤防(共同通信) (2日11時24分)
- 陸自イラク撤退など協議へ 額賀氏、シンガポール訪問(共同通信) (1日16時43分)
- 米、イラクへ1500人増派…「一時的な措置」と強調(読売新聞) (31日14時8分)
- イラク武装勢力年内衰えず 米国防総省の報告書(共同通信) (31日11時53分)
- 米軍、イラクに1500人増派＝治安権限の移譲は停滞(時事通信) (31日11時0分)

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

- 【中国】胡主席：米大統領とイラン核問題で電話協議(サーチナ・中国情報局) (2日11時14分)
- <イラン核問題>米の譲歩を歓迎 パキスタン外務省が声明(毎日新聞) (1日23時20分)
- KEDO廃止決定 北に損失請求(産経新聞) (1日15時44分)
- KEDO、北の軽水炉建設廃止を正式決定(読売新聞) (1日10時55分)
- イランが核計画放棄すれば経済協力を拡大＝米 국무長官(ロイター) (1日6時53分)
- テポドン2号 日米、警戒態勢を強化 陸海空自、初の統合運用(産経新聞) (1日3時6分)
- 地下鉄駅でNBCテロ訓練 警視庁、サリンを想定(共同通信) (5月31日10時24分)
- 核の平和利用支持 非同盟会議、イランを擁護(共同通信) (30日21時57分)
- イランが核融合研究、数年間にわたり試験実施＝当局者(ロイター) (30日19時10分)
- ウラン濃縮活動が「減速」 イラン、米との交渉模索か(共同通信) (30日10時0分)

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

「ニュース」更新

防衛庁 「省」実現へパンフ作戦

移行の必要性分かりやすく /// 20万部、地連などで配布

防衛庁主催で「米軍再編シンポ」開く

額賀長官「同盟の信頼固めた」

<イラク支援群>

3波もクウェート入り /// イラク・ドキュメント(2006.5.16～5.22)

「コブラ・ゴールド 06」医療訓練で医官ら

住民を実地に診療

西太平洋掃海訓練

「ぶんご」など3隻出発

今年もF4改で空対地実爆訓練

コープ・ノース・グアム

鹿股准空尉が招かれて出席

アラバマ州基地で米空軍先任下士官会議

6空団、83空など沖縄空域で共同訓練

子供や地域の安全守れ！

OB防犯パトロール隊活躍

2006年5月31日 0:32 AIA dailyLead May 30, 2006 -

「私が金のために日々を売らないとしてバカ扱いする。一方かれらが私の毎日を売れるものだと考えている事に私は我慢ならない。」

カーリル ギブラン 作家・詩人・芸術家

**"They deem me mad because I will not sell my days for gold; and I deem them mad because they think my days have a price."**

--Kahlil Gibran, author, poet, artist

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2006年5月31日 0:32 AIA dailyLead May 30, 2006 -

### エアバス 衝突事故防止自動化装置

#### Airbus automation would help planes avoid crashes

Airbus is developing onboard computers that will automatically help the planes avoid collisions. Flight crews would rely on the system to avoid a crash with

another airborne aircraft. Airbus has not yet announced plans for the computers. [The Wall Street Journal \(free content\)](#) (5/28)

### 航空機メーカー 安全性関連ソフトウェアの徹底チェック

#### Plane manufacturers scrutinize software

Software glitches are becoming a leading safety challenge in aviation. It is more difficult to fix problems with the latest generation of jetliners

because they use more than 5 million lines of software code. Older planes use just 1 million lines. [The Wall Street Journal](#) (5/29)

### ダレス空港 利用客減少 一月インデペンデント航空廃止後

#### Traffic dips at Dulles after demise of Independence Air

Traffic at Washington's Dulles International Airport has declined since the January demise of Independence Air. Some travelers are now flying into

other airports, including Reagan National Airport, where traffic climbed 6.1% in the first quarter. [The Washington Post](#) (5/29)

### 今年の夏の航空旅客 最も繁忙が予想される

#### Busy summer travel season ready to take off

Airports, airlines and travelers are preparing for the busiest summer travel season on record. Almost 207 million fliers are expected to travel on U.S. airlines to

destinations within the U.S. and abroad. [USA TODAY](#) (5/29)

### デルタ航空 パイロット組合との妥結必要性

#### Delta needs agreement with pilots, CEO says

**Delta Air Lines** Chief Executive Gerald Grinstein said a request by the government's pension agency for a judge to reject the company's agreement with its pilots is "without merit." The agreement is necessary

for Delta to emerge from bankruptcy protection, Grinstein added. [Journal and Constitution \(Atlanta\)](#) (5/27)

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## EADS 社 宇宙事業部門 7月1日以降、「アストリウム」と名称変更

### EADS Rebrands Space Division

Financial Times, May 23 - EADS, the Franco-German aerospace group, is merging several companies within its Europe-wide space division, EADS Space, and renaming it in an effort to create a new brand. The new, simplified division will be called Astrium and begin operations on July 1. Operations for carrier rockets and manned space travel, which were legally

independent until now, will be grouped together, as will EADS's satellite operations in Germany and France. The group's services business, which includes military communications and the development of Galileo, the planned European navigation system, will become Astrium Services.

### [新刊広告] 月刊誌「軍事研究」別冊「日米イージス艦とミサイル防衛」

絶賛好評発売中。北朝鮮発射のテポドンをどのように防ぐのか？ 陸海空に張巡らされる弾道ミサイル防衛システムはどのように構成されているのか？ 日本も研究開発に関与しているイージス艦による弾道ミサイル防衛はどのように進められているのか？ 太平洋で

実施されている弾道ミサイル撃墜試験状況は？・・・などなど緊急の話題が満載。本邦初公開の美麗写真・イラスト豊富。定価はこの懇切丁寧・濃密な内容で、な、なんと僅かの1,400円。発売早々書店前延々長蛇の列！売切れ間近！☆多田智彦☆

