
[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、書籍、データ: AW&ST 060724, Defense News 060717, ISIS Image Brief(パキスタン核), 他

SJAC より下記寄贈、感謝:

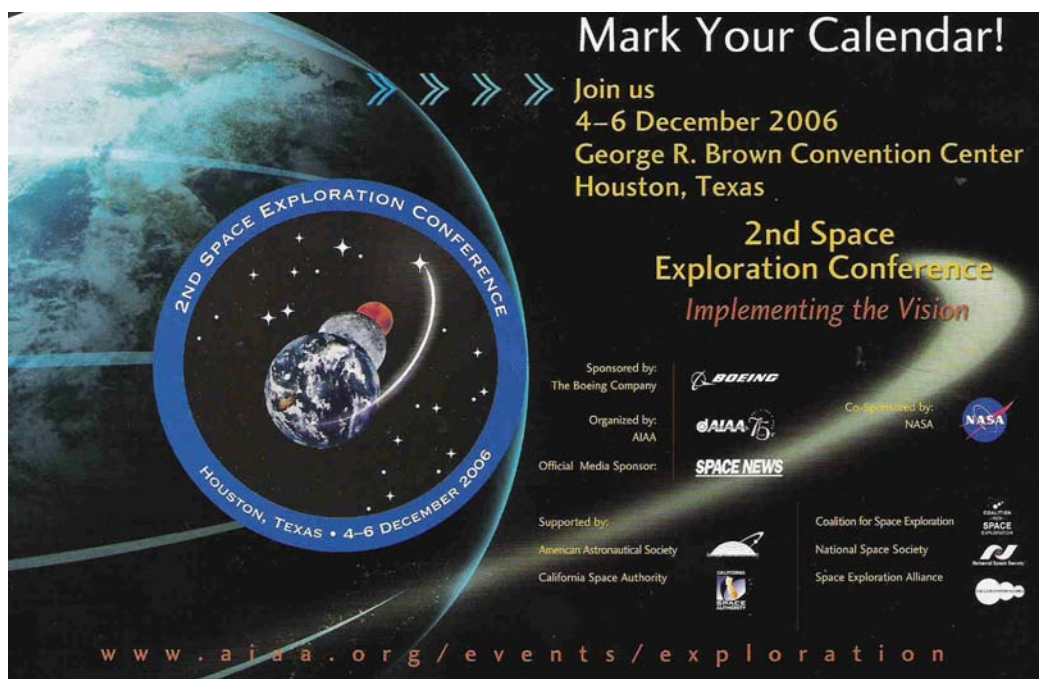
「高高度飛行船に関する調査報告書」 2006.03

「スペースポリシーに関する調査報告書(国家安全保障を中心として)」 2006.03

「世界の宇宙インフラデータブック(更新日 2006.2.28)」 2006.03

[コンフェレンス] 4-6 December 2006

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www.aiaa.org/events/exploration

060725 読売 パキスタン核

関連資料は <http://www.space-library.com/> の 5.6 項 地球観測関係からダウンロード可

パキスタンの核兵器製造20倍? 新たなプルトニウム生産炉

【ワシントン＝坂元隆】パキスタンが核弾頭40〜50発分に相当するプルトニウムを1年間に抽出可能な高性能原子炉を建設中であることが分かった。米ワシントン・ポスト紙(電子版)が24日、米民間組織「科学・国際安全保障研究所」(ISIS)のデビッド・オルブライト所長らの分析として伝えた。

完成すれば、パキスタンの核兵器製造能力は一気に20倍に高まる。同紙は南アジアでの核競争が激化する恐れを指摘している。原子炉は2000年ごろからパキスタン中部クシャブ地区で着工された。現在も工事が進められていることが、衛星写真で確認された。

米紙報道

ると、建設中の重水炉は1000ガ・ワで、パキスタンの核兵器生産能力は飛躍的に高まると予想される。同紙によると、パキスタン当局者も、民生・軍用両方の核施設建設計画が進められていることを認めた。

7月26日 16時57分更新 YONHAP NEWS

人工衛星2基、27日と28日に相次ぎ打上げ

【ソウル26日聯合】国産の人工衛星が、27日と28日に相次いで打上げられる。韓国航空大学チャン・ヨングン教授 大学研究室チームが独自技術で製作した超小型人工衛星「ハンヌリ1号」は27日午前にカザフスタン・バイコヌール基地から、韓国航空宇宙研究院の多目的実用衛星2号の「アリラン2号」はロシア・プレセック宇宙基地から28日午後、それぞれ打上げ予定。

ハンヌリ1号はチャン教授チームが2年かけ製作したもので、重さ1キログラム、縦と横、高さがそれぞれ10センチ。野球ボールよりやや大きめの超小型衛星で、製作費に1億9000万ウォンが投じられた。大学研究室が衛星を独自に製作し打上げるのは、国内初。打上げ成功可否は、ハンヌリ1号が朝鮮半島上空を通る27日午前11時ごろに、大学に設けられた地上局との初交信で判明するという。

ハンヌリ1号はロシアのドニエプルロケットに搭載される。規模は小さいながらも、電源や通信システム、コンピュータやソフト、熱統制システム、姿勢制御システム、太陽電池板も搭載されており、打上げ後は1年間、地球上空511kmの低軌道を回りながら、人工の位置情報の収集や太陽電池板のメカニズムテスト、独自開発した太陽センサの宇宙検証などの任務を行う。

一方、アリラン2号は世界で最も精密な1m級の高解像度カメラの装

着で、関心を集めている。地球上空685kmを回りながら、朝鮮半島の地理情報システム構築、自然や環境変化の察知、災害や被災地の探知、農業・漁業・林業資源情報の提供などにあたる。専門家らは、高解像度カメラが撮影した精密な観測映像は、軍事用にも活用できると期待している。



超小型人工衛星のハンヌリ1号=12日、ソウル(聯合)

Aerospace Daily & Defense Report Jul 24, 2006

スペースアドベンチャはISSへの旅行者はスペースウォークを行なうことができると述べる

Space Adventures says ISS tourists will be able to perform spacewalk

PLAY OUTSIDE: Space Adventures, which arranges commercial tourism trips to the International Space Station (ISS), claims it

will be offering its clients the option of a 90-minute ...

United Space Alliance 社はコンステレーション計画をサポートする契約を得る

USA gets contract to support Constellation program

EXPLORATION 'BRIDGE': NASA plans to use the expertise United Space Alliance has built up running the space shuttle

program to help it begin switching to the follow-on ...

アトランティスは VAB ビークル組立棟に 7 月 24 日に移動

Atlantis to roll out to Vehicle Assembly Building on July 24

ATLANTIS: On July 24 space shuttle Atlantis will be moved out of the Orbiter Processing Facility and transported to the Vehicle

Assembly Building (VAB) at Kennedy Space ...

レバノンからの脱出は 1 日当り米国人 6,000 人のにのぼっている

Lebanon evacuation rising to 6,000 citizens per day

LEBANON EVACUATION: Once all U.S. Navy ships are on the scene, officials say they will have the capacity to evacuate at

least 6,000 U.S. citizens per day ...

NASA グリフィン長官と企業は X-翼の航空技術研究で意見食違い

Griffin, industry at odds on X-plane aero research

VISION THING: Industry, Congress and NASA continue to snipe over the direction aeronautics research is taking at the agency.

Rep. Ken Calvert (R-Calif.), chairman of the House ...

米無人機で単一のコントロール・ステーションを目指す

Single control station eyed for U.S. unmanned vehicles

UNMANNED ROAD MAP: The Pentagon has started drafting its new unmanned vehicle road map, with the goal of releasing it in

the summer or fall of next ...

MD ヘリコプタ社は公式の LUH への抗議をおこす

MD Helicopters files formal LUH protest

LUH PROTEST: MD Helicopters has filed a formal protest over EADS North America's win on the Army's Light Utility Helicopter

program. Now the Government Accountability Office must ...

専門家: イスラエルとヒズボラの戦闘は防衛的レーザー配備へ向うことになる可能性

Expert: Fighting may spur desire for defensive laser

Hezbollah's constant and effective missile attacks on Israel during the recent conflict will likely cause U.S. and Israeli leaders

to step up efforts to deploy a defensive ...

議会による予算削減は研究と開発にインパクト

Congressional reductions impact research, development

Lawmakers' parochial spending priorities and tightening budgets

could start affecting defense programs more widely, particularly

developmental efforts, as Congress moves to finalize fiscal 2007

defense appropriations. . . .

米国の衛星はイスラエルのヒズボラとの戦闘に余り役に立っていない

U.S. sats not much help to Israel against Hezbollah

One aspect of U.S. space power is relatively ineffective against Hezbollah rockets fired from Lebanon into Israel, and represents

the challenge that big armies face in defeating . . .

ノースロップと Ball Aerospace は James Webb 宇宙望遠鏡のミラーの試験で競合

Northrop, Ball complete Webb mirror tests

Northrop Grumman Corp. and Ball Aerospace & Technologies have completed vibration and acoustic testing on the primary

mirror for the James Webb Space Telescope (JWST) to ensure

事故の調査に続いて Falcon 1 の次のフライトが許可された

Falcon 1 cleared for next flight following mishap investigation

The Defense Advanced Research Projects Agency (DARPA) has cleared SpaceX's Falcon 1 launch vehicle for its next flight,

following a failure investigation that pinpointed a corroded aluminum . . .

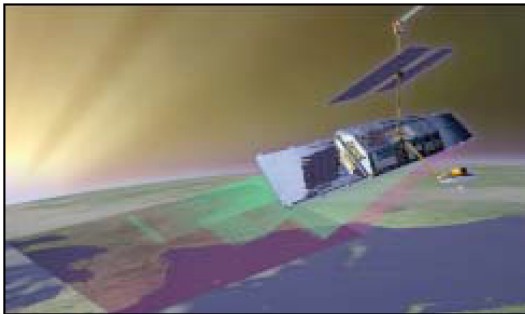
冥王星探査機はカメラ試験で小惑星を撮影

Pluto probe snaps asteroid in camera test

POINT AND SHOOT: Controllers overseeing the New Horizons Pluto flyby mission launched in January have demonstrated its

ability to image a moving target with the probe's cameras . . .

GAO Report Assessment of **Space Radar (SR)** **[抜粋]**



スペースレーダ(SR)は空軍主導で DOD と情報機関が参加した計画で、地表の大きな観測幅にわたって大陸に近い範囲で全天候下で移動または静止ターゲットを見つけ、識別し、追跡し監視する衛星を開発を目指している。計画で描いているように SR は地上、空中、艦船、そして宇宙に配備されているシステムに伝送するためのレーダ画像データを多量に生成する。

SR is an Air Force-led, joint DOD and intelligence community program to develop a satellite to find, identify, track, and monitor moving or stationary targets under all-weather conditions and on a nearcontinual basis across large swaths of the earth's surface. As envisioned, SR would generate volumes of radar imagery data for transmission to ground-, air-, ship-, and space-based systems. (We assessed the space segment.)

GAO Report Assessment of **Space Tracking and Surveillance System (STSS)** **[抜粋]**



MDA ミサイル防衛庁の STSS エLEMENTは段階的に能力に基づき敵ミサイルをその飛行の全行程にわたって追跡する様に設計された複数ブロックとして開発中である。初期の段階部分は SBIRS Low 計画の下で製造された実証衛星2機からなっている。MDA は 2007 年にミサイル防衛システムの文脈の中でそれらが如何にうまく動作するかを評価するためこれらの衛星を打上げる計画である。MDA はまた STSS 計画の改善を検討中で、それでは次世代の衛星を製造する予定。

MDA's STSS element is being developed in incremental, capability-based blocks designed to track enemy missiles throughout their flight. The initial increment is composed of two demonstration satellites built under the Space Based Infrared System Low program. MDA plans to launch these satellites in 2007 to assess how well they work within the context of the missile defense system. MDA is also studying improvements to the STSS program, and it will be building next generation satellites. (We assessed the two demonstration satellites.)

JULY 20, 2006 Satellite Flyer 原文は <http://www.space-library.com/> の 5.1 航空宇宙関連 新聞、雑誌からダウンロード可

スペースサポートは戦闘兵士の鍵

Space support key to war fighters

Senior Master Sgt. Bob Blauser U.S. Central Command Air Forces Forward Public Affairs

SOUTHWEST ASIA — Supporting war fighters on the ground is the overarching mission of everyone deployed to the U.S. Central Command area of responsibility. Carrying out this earthly mission from thousands of miles above the ground, though, is a responsibility coordinated by the **Combined Air Operations Center** here.

“We’re focused on providing space support to any operation throughout the theater,” said Col. John Hyten, director of space forces for the **CAOC**. “We have deployed Soldiers, Sailors, Airmen and Marines with space expertise to ensure that the power of space is brought to bear in line with the timing and tempo required by commanders in the field.”

Space support requests—categorized as communications and weather, space protection, precision navigation and timing, and overhead non-imaging infrared — are similar to air support requests, the colonel said. With air support requests, specific airborne effects are requested such as close-air support. With **SSRs**, a space effect is requested instead.

When commanders in the field need space support that is not already being provided, they submit an **SSR** to the **CAOC**, which is supported by a small theater integration cell.

“This cell coordinates with deployed space troops and experts back in the United States to ensure the right capabilities are

available to support the fight,” Colonel Hyten said.

As an example, a recent **SSR** was generated to have the Joint Space Operations Center at Vandenberg Air Force Base, Calif., immediately notify field forces in Southwest Asia of changes to the Global Positioning System satellite constellation. During June, this **SSR** produced three urgent electronic messages following GPS satellite anomalies. Because forces rely on GPS to send munitions directly to targets, these adjustments prevented bombs from missing the targets in response actions to terrorist attacks and prevented collateral damage.

The effects created with **SSRs** are focused on delivering specific capabilities from space to fielded forces engaged in operations in Iraq and Afghanistan, according to Maj. Mark Guerber, chief of the combat operations space cell.

“We may not provide the whole effect,” the major said, “but in terms of a GPS-aided munition, we provided the precision that allowed us to destroy the target; therefore, we contributed to the overall effect of precision strike.”

Colonel Hyten stressed that **space’s role is not merely focused on integrating air and space, but rather integrating space with any air, ground or maritime operation in any theater.** “There’s not a military operation that takes place in the world today where space is not fully integrated,” Colonel Hyten said. “Many military

members don't even realize it. All they know is that, 'This machine I have in my hands tells me where I am, and this machine lets me communicate when I need to.' All they need to know is that it works, but it's space's job to make sure it works. **"Space power can make a difference in the success or failure of**

nearly every military operation in Iraq and Afghanistan today," Colonel Hyten said. "Our forces today **navigate with space support, communicate through satellites in space** and characterize the battlefield with overhead assets, to name a few. We're glad to be able to share our contributions."

060720 Space Observer

原文は <http://www.space-library.com/> の 5.1 航空宇宙関連 新聞、雑誌からダウンロード可

軍と企業のリーダーは戦闘効果の中での宇宙技術の役割に注目

Military, industry leaders eye space technology's role in combat effects

Senior Master Sgt. Ty Foster 21st Space Wing Public Affairs

KEYSTONE, Colo. – Air Force Space Command's top functional leaders and space experts turned out in full force to support the 2006 Space Warfare Symposium here June 27 through 29.

Air Force Association Lance P. Sijan Chapter No. 125 hosted 240 of the nation's military and corporate industry space leaders and operators for the event, which focused panels and breakout discussions on the event theme of **"Integrated Space Combat Effects – To the Battlefield and Beyond."**

"We hope that we've provided a thought-provoking picture of space and the joint warfighter at an operational and strategic level," said Brian Binn, president of the AFA's Sijan chapter. "Space will continue to play an ever-increasing role as an instrument of our national defense and Colorado Springs will continue to be what we consider the center of gravity for space operations."

In his opening remarks, Maj. Gen. Thomas Taverny, mobilization assistant to the AFSPC commander, cited innovations such as the Joint Space Operations Center at Cheyenne Mountain Air Force Station, and its daily role in the Global War on Terrorism and **the successes of precision target engagement via satellite navigation using Joint Direct Attack Munition guidance kits.**

The general said JDAMs allow B-52s to attack targets from 12 to 20 miles away without risking harm to aircrews.

The weapon's accuracy is honed from 300-meters using conventional bombs, to three meters using the Global Positioning System satellite constellation. Senior Chief Petty Officer Steve White, from U.S. Northern Command, knows about the benefit of **JDAM** accuracy. He was a U.S. Navy SEAL for 10 years and has three tours supporting Operation Enduring Freedom.

GPS allows a modified 50-plus-year-old weapons system "unheard of precision" in closeair support applications. "The

accuracy is unbelievable," he said.

Despite the multiple successes space has seen in the global war, Chief White and the other three members of the Frontline Warfighter Panel had some recommended improvements for the space industry representatives on hand. Satellite image clarity, increased radio bandwidth and streaming video from satellites or unmanned aerial vehicles, were among the various suggestions mentioned by panel members. Information operations are the key to success in the war, and space technology is key to IO success, said Army Lt. Col. Rick Steiner, 10th Special Forces Group commander.

"Space is like water, electricity and the sunrise – they're so fundamental that they're not really talked about," the colonel said.

People need to understand and know what is available from an applications standpoint. "(The space) community is going to have to push that knowledge to us," he said. "You're the repository of this expertise ... you can give that to the groundbased warfighting community."

Colonel Steiner recommended space enter the special ops community in a "more robust manner" by assigning space operators at the tactical headquarters level to educate leaders on what combat effects space can deliver.

In the global war, joint operations education is needed for integrating space combat effects in the prosecution of war.

A panel of senior enlisted leaders believes educating the enlisted force is a fundamental step to achieving success.

"Today's warfare requires precision accuracy because of the consequences if we miss," said Chief Master Sgt. John Foran, 9th Air Force command chief. "Not all of our Airmen know those consequences." When a bomb explodes it affects the surrounding

community. "Accuracy is paramount," he said. The information taught to Airmen, however, needs to be targeted. Today's basic military training introduces the topic in broad strokes, said Chief Master Sgt. Ron Kriete, AFSPC command chief. But for space knowledge, "we have to define what Airman needs what - not every Airman in our Air Force needs the full education on space assets."

Peter Teets, retired undersecretary of the Air Force, emphasized the importance of integrating space into the joint warfighting arena.

"I hope we realize that when we're pushing the bar high, we're

going to encounter problems," he said. "The answer isn't to lower the bar.

"**We must develop systems that integrate space professionals across the services.** We need more and better free thinking than we've ever had," **Mr. Teets** said.

Additional discussion topics built upon these presentations and the questions and answers that emerged from them. Sessions focused on: space support to U.S. NORTHCOM, senior warfighter panel, director of space forces, national security space perspective, deterrence and strike perspectives, and enlisted space professional development.

Thursday, July 20, 2006 

ロッキードは秘密の Polecat UAV の設計を公開

Lockheed Martin unveils secret Polecat UAV design

海軍は 8 社の契約者をポータブル衛星通信端末で競わせる予定

Navy to compete eight contractors for portable satcom terminals

2006 年 7 月 24 日 7:52 【CNET Japan 2006 年 07 月 24 日】

NSA 監視プログラム訴訟―米地裁、AT&T による棄却請求を却下

<http://japan.cnet.com/svc/nlt2?id=20177727>

朝日航洋、3 次元地震被害シミュレーションソフト「VREq」を開発

<http://japan.cnet.com/svc/nlt2?id=20178147>

ソフトバンク、モバイル WiMAX の商用化に向けた実験用無線局の免許を申請

<http://japan.cnet.com/svc/nlt2?id=20177427>

6 月の民生用電子機器出荷実績、出荷金額は 2300 億円、11 カ月連続のプラス

<http://japan.cnet.com/svc/nlt2?id=20178007>

用途広がる IC レコーダー、大混戦の 1 年を勝ち抜いたのはオリンパス

<http://japan.cnet.com/svc/nlt2?id=20177267>

2006 年 7 月 21 日 7:45 【CNET Japan 2006 年 07 月 21 日】

日本テレコムなど、2GHz 帯の広域無線ブロードバンド・アクセス実験を拡張

<http://japan.cnet.com/svc/nlt2?id=20176427>

KDDI、IP ベース蓄積型映像音声伝送管理システム「VAST-web」での映像伝送実験

<http://japan.cnet.com/svc/nlt2?id=20176187>

2006 年 7 月 20 日 7:57 【CNET Japan 2006 年 07 月 20 日】

インテル、Itanium の最新版「Montecito」をついにリリース

<http://japan.cnet.com/svc/nlt2?id=20174208>

フライトシステム、ハイビジョン映像の JPEG2000 によるリアルタイム伝送に成功

<http://japan.cnet.com/svc/nt2?id=20174087>

Google News は著作権侵害か？ --フランス通信社の訴え、米地裁が審理継続へ

<http://japan.cnet.com/svc/nt2?id=20174307>

オキシライド乾電池・有人飛行プロジェクト、乾電池による有人飛行に成功

<http://japan.cnet.com/svc/nt2?id=20173287>



Aerospace Daily & Defense Report Jul 21, 2006

上院予算関係者は F-22 の予算満額を望む

Senate appropriators want F-22 fully funded

Senate appropriators approved multiyear funding for the F-22A Raptor but rejected incremental funding for the next lot of

fighters in the fiscal 2007 defense spending bill sent . . .

議員は国務省がパキスタンへの F-16 売却を扱うことを非難

Lawmakers blast State Department for handling of Pakistan F-16 sale

The leadership of the House International Relations Committee blasted the U.S. State Department's handling of the proposed \$5

billion sale of F-16 fighters and weapons to Pakistan . . .

米の防衛と航空宇宙は新しい取引案件を要すとロッキードマーチン首脳は述べる

U.S. defense, aerospace need 'new deal,' LM executive says

FARNBOROUGH - Squeezed, shrunk and kept guessing about military plans and procurement, U.S. defense and aerospace

urgently need a "new deal" from Washington, says Robert H. Trice, . . .

オービタルサイエンス社は第2四半期業績でさらに売上げと収益の増加

Orbital reports higher revenues, income for second quarter

Orbital Sciences Corp.'s second quarter revenues rose 11 percent to \$197 million in 2006 compared to \$177.4 million in

2005, while the company's operating income rose 13 . . .

陸軍は Apache ブロック III の作業に支出

Army funds Apache block III work

The Army has awarded McDonnell Douglas Helicopter Co. of Mesa, Ariz., a \$41 million increment of the company's \$613 million

system demonstration and development I contract for . . .

スホーイは Su-35 戦闘機モックアップを公開

Sukhoi unveils mockup of Su-35 fighter

NEW SU-35: Sukhoi Holding Co. has unveiled the mockup of its

new Su-35 single-seat fighter, which is intended to bridge the

gap between series production fourth-generation Su-30s . . .

専門家：米は長距離攻撃兵器のさらに多くのオプションを要す

Expert: U.S. needs more options for long range strike weapon

The Pentagon needs to present White House policymakers with more options for a conventionally-armed long range strike

weapon than are now available, an international security expert said . . .

現在まで戦争のために\$386B - \$393B が提供された

Hill auditors: \$386-\$393B provided for wars so far

WAR SPENDING: Since 2001, Congress has appropriated \$430-\$432 billion to the Defense Department and other U.S.

government agencies for military and diplomatic efforts for global anti-terror and . . .

海軍の UCAS 無人機の計画は数週間内に立上げられる模様

Navy UCAS program set to be launched within weeks

FARNBOROUGH - The U.S. military is about to launch the next phase in its unmanned combat air systems (UCAS) planning with

the release of a new requirement . . .

シコルスキー社は Black Hawk ヘリの派生型を開発予定

Sikorsky to develop Black Hawk derivatives

FARNBOROUGH - Sikorsky Aircraft will develop two new Black Hawk helicopter derivatives for foreign customers called the

International Black Hawk and the Armed Battlehawk. . .

ロシアと ESA は再使用型宇宙機を開発予定

Russia, ESA to develop reusable spacecraft

FARNBOROUGH - The Russian Roskosmos space agency has canceled its tender for development of a next-generation

reusable piloted spacecraft, dubbed Clipper-MKA, opting instead to develop the program . . .

CSAR-X は 9 月 6 日に DAB 防衛取得委員会が予定される

CSAR-X scheduled for DAB on Sept. 6

The U.S. Air Force's combat, search and rescue (CSAR-X) helicopter program is now scheduled for a Sept. 6 Defense

Acquisition Board (DAB) review, officials connected with the . . .

Integrated Powerland 社は定常状態の 100%デモを行なう

Integrated Powerhead hits steady-state 100% demo

Reusable rockets capable of as many as 200 firings are a step closer to reality with the first U.S. test of a full-flow

staged-combustion (FFSC) cryogenic engine . . .

ベルヘリコプタは UH-1Y の作業で\$137.4M の契約を獲得

Bell Helicopter wins \$137.4M contract for UH-1Y work

UH-1Y WORK: Bell Helicopter Textron Inc. of Fort Worth, Texas, has been awarded a \$137.4 million contract to provide the U.S.

Navy with seven UH-1Y aircraft, one . . .

トップラインの予算削減は空中給油機にインパクトを与える

Topline spending 'cuts' could impact tanker

Congressional cuts in defense spending – while perhaps not as deep as lawmakers have proclaimed – may impact the Air Force's

ability to buy new aerial refueling . . .

GMAS 社は潜在的な JCA 共通化輸送機の製造に Cecil Field を選定

GMAS chooses Cecil Field for potential JCA production

Global Military Aircraft Systems (GMAS), the joint venture of L-3 Communications Integrated Systems, Alenia Aeronautica and

Boeing Integrated Defense Systems that is bidding the C-27J for the . . .

防衛のプライムは 9 月に SBINet の契約受注を待つ

Defense primes await anticipated SBINet award in September

The industry teams vying for the Department of Homeland Security's (DHS) \$2 billion SBINet program to monitor the U.S.

northern and southern borders are anticipating a prime . . .

米中の軍当局者の緊密な連携が求められる

Closer ties sought by U.S., Chinese military officials

In a seeming effort to soften or otherwise alter the Defense Department's annual "China Military Report," Chinese military

officials are sharing some defense budget figures with the . . .

McCain 議員の委員会はラプタ F-22 の聴聞会に出席

McCain's panel lines up high-profile Raptor hearing

RAPTOR HEARING: The Senate Armed Services airland subcommittee, led by acquisition critic Sen. John McCain

(R-Ariz.), will host a hearing July 25 over multiyear contract authority for . . .

上院防衛議員はラプタ F-22 の海外への売却に反対続ける

Senate defense appropriators keep ban on foreign Raptors sales

Senate defense appropriators have kept legislative language in their fiscal 2007 spending bill that would continue a ban on

foreign sales of Lockheed Martin Corp.'s F-22A Raptor, . . .

CH-53 ヘリは米国人をレバノンから輸送

CH-53E helicopters ferry Americans out of Lebanon

Six CH-53E Sea Stallion helicopters are being used to evacuate U.S. citizens from Lebanon while the U.S. Navy destroyer USS

Gonzalez is escorting the Orient Queen, an . . .

上院の税務担当の委員長はボーイングの和解に関して司法省を非難

Senate tax chair slams DOJ over Boeing settlement

Senate displeasure with the \$615-million Boeing-Justice Department settlement that ended investigations of two Air

Force contract scandals continued to build July 18 as the Senate Finance Committee ...

専門家は議会に NASA は遷移的航空技術研究を要すると伝える

Experts tell Congress NASA needs 'transitional' aero research

NASA's dwindling aeronautics research program slights the "transitional" work that is needed to drive the results of basic

science into industrial applications that can add to the ...

ULB 小型無人ヘリは他の開発作業に有用とボーイングは述べる

Unmanned Little Bird useful to other development efforts, Boeing says

Although Boeing so far has been unable to entice any of the services into drafting a requirement for its Unmanned Little Bird

(ULB) helicopter, the aircraft is ...

AFSOC 空軍特殊作戦コマンドの長官はさらに多くの C-130、Osprey, UAV を望む

AFSOC chief wants more C-130s, Ospreys, UAVs

The aerospace and defense industry should help the U.S. Air Force Special Operations Command (AFSOC) recapitalize its

C-130 fleet, possibly with C-130Js, rather than by offering more

企業チームは GPS IIR-M 衛星 5 号機を完成

Industry team finishes fifth GPS IIR-M satellite

MODERNIZED GPS: Lockheed Martin Corp. announced July 18 that its industry team has completed the fifth of eight

modernized Global Positioning System (GPS) IIR satellites that the

日本、カナダはシースパローキャニスタで\$13M を発注

Japan, Canada order \$13M in Sea Sparrow canisters

SEA SPARROWS: U.S. Naval Sea Systems Command has awarded Raytheon Co.'s Integrated Defense Systems unit a \$13

million contract for the fabrication, assembly, test and delivery of

JCSAT-10 は 8 月 11 日打上げに向けてクーラーでチェック中

JCSAT-10 undergoing checkout in Kourou for Aug. 11 launch

JCSAT: Japan's JCSAT-10 telecommunications satellite is undergoing checkout in the S5 clean room facility at

Arianespace's launch site in Kourou, French Guiana. The spacecraft is slated to

2006 年 7 月 21 日 「人民網日本語版」

「中国の国防政策は防衛的」中央軍事委副主席

訪米中の郭伯雄・中央軍事委員会副主席は 19 日、米国防大学で「中国の平和的発展と国防の現代化」をテーマに講演し、国際問題やエネルギー安全保障問題などについて質問に答えた。郭副主席は講演で次のように述べた。

中国が平和発展路線を歩むのは、自国の歴史的な伝統や国情、

時代の発展の流れに基づいて行った必然的な選択だ。

改革開放以来の中国の発展は、国際社会から広く注目されている。中国の選択は、確固不動たる姿勢で平和発展路線を歩み、対内的には(国家)建設に集中し、一心に発展を図り、調和のとれた社会の構築に努めるとともに、対外的には世界平和の維持に力を尽くし、共

同発展を促進するというものだ。平和発展路線は、中国が現代化を実現する上での必然的な要請であり、深い歴史的・文化的基盤を持ち、時代の発展の潮流と人類社会の前進の方向性に符合するものだ。中国の発展は平和的な発展であり、開放的な発展であり、協力的な発展であり、調和的な発展だ。

国防の現代化は、中国が平和発展する上で客観的に必要であり、平和発展に「盾」を与えるものだ。中国が国防の現代化を強化するの

は、自国の平和発展の利益を守る上での必要であると同時に、周辺地域を始めとする世界の安寧と安定にもプラスとなる。中国は防衛的な国防政策を遂行し、永遠に拡張せず、永遠に覇権を唱えない。

交流と協力の強化は、中米両国・両軍の共通の願いだ。両国はテロ撲滅、大量破壊兵器の拡散防止、人類の生態環境の保護、多国籍犯罪の取り締まりなどの分野で、幅広い戦略的利益を共有している。(編集 NA)

2006年7月20日 「人民網日本語版」

中央軍事委副主席、米国防長官と会談 交流強化へ

中央軍事委員会の郭伯雄副主席(上将)は18日、米国ワシントンの国防総省総司令部で同国のラムズフェルド国防長官と会談した。新華社が伝えた。

会談では▽両国海軍による年内の海上救難合同演習の実施▽朝鮮戦争期の米側行方不明者・捕虜の捜索のための、軍事記録を

めぐる協力▽両国の軍士官学校および青壮年士官による交流や、その他の分野における協力の継続的強化——などで合意した。

郭副主席の一行は17日夜にワシントン入りした。これに先立ち、カリフォルニア州サンディエゴで、米海軍第3艦隊と航空母艦「ロナルド・レーガン」を見学訪問した。(編集 KS)

2006.7.17 Defense News

日本は技術移転が困難であるにもかかわらず F-22 を求める

Japan Seeks F-22s Despite Tech Transfer Hurdles

Japan has yet to launch its competition to replace its aging F-4E fighter jets, but Lockheed Martin's stealthy F-22 has emerged as the frontrunner despite technology transfer hurdles, say officials, analysts and sources. (中略)

Japan already has access to some of the F-22s secrets. Two Japanese companies subcontracted by Lockheed - Nippon Carbon Co. and Ube Industries - were used to produce its fiber sheets. (以下略)

JULY 2006 / AEROSPACE AMERICA by Frank Sietzen 全文は<http://www.space-library.com/>の AerospaceAmerica からダウンロード可

前進のために振り返る - 新しい CLV クルー打上げピークル

LOOKING BACK TO GO FORWARD—THE NEW CLV

NASA's newest launch vehicles will draw significantly on legacy systems, combining elements of both the space shuttle and Saturn eras.

Following the design of the crew exploration vehicle (CEV), the next element of President Bush's Vision for Space Exploration will be a decision on the crew launch vehicle (CLV) that will take astronauts to the Moon and Mars, deliver cargo, and perform rendezvous missions.

Last summer, the Exploration Systems Architecture Study (ESAS) recommended a pair of vehicles that will combine systems from both the shuttle and Saturn eras. That surprising choice came, say designers, because of the long track record of these systems. Decisions on specific engines and vehicle configurations for the heavy lift launcher can continue to

undergo review, since that vehicle's first flight takes place well after that of the smaller CLV.

Defining a launch system for the CEV

In 2004 NASA established its Exploration Systems Mission Directorate (ESMD). Shortly afterwards, says CLV project manager Steve Cook of the Exploration Launch Office at NASA Marshall, "We were asked to go and do a quick look at some of the options for crew launch." A series of trade studies called the Analysis of Alternatives (AOA) also began, run primarily from ESMD. The AOA had been done when the directorate was first established and before Cook's office was created.

"Our review was sort of a top-level scooping of the trade space," Cook recalls. Candidates ranged from clean-sheet vehicles to derivatives of the EELV (evolved expendable launch

vehicle) fleets of Atlas V and Delta IV; from heavy to larger, Shuttle-C-type heavy lifters all the way through to derivatives of the shuttle flying today. New upper-stage configurations were also examined. All the pre-ESAS launch vehicle studies were done before any mission requirements had been defined. "We didn't know what the lift capacity had to be, what the CEV would be, any of that," Cook recalls.

Any EELV-derived design would be limited by its relatively short launch history. A new booster and upper stage would be needed to carry the heavy lunar cargoes, and more extensive flight trials would also be necessary.

ESAS analyses showed the resultant costs could be avoided if some launch vehicle elements from both the shuttle and the Saturn series could be combined. ESAS ultimately recommended a shuttle-derived, stacked, in-line design called Vehicle LV 13.1. Its two-stage series burn launch vehicle would use a four-segment solid rocket motor with polybutadiene acrylonitrile propellant. The concept was designed with a 10% reduction in the fuel burn rate of the motor to decrease the maximum dynamic pressure sustained during ascent; however, later studies showed

CLV GENERAL SPECIFICATIONS

25 mT payload capacity; 1.8 million lb gross liftoff weight

233 ft length (measurement originally for four-segment booster motor)

Stage one: Five-segment solid rocket motor derived from space shuttle booster, recoverable

Added systems for CEV launcher: Roll control system; forward adapter for mating with upper stage

Stage Two: LH/LOX fueled stage using single J-2X cryogenic engine, both expendable 5.5-m diameter

Instrument unit for avionics and flight control system

Aluminum-lithium structure

IOC 2012, Launch Complex 398, Kennedy Space Center.

Source: Exploration Launch Office.

that the modification in the burn rate might not be needed. Powering the second stage would be a single air-start space shuttle main engine (SSME). The CEV would have an expendable boost protective cover that would fit over the exterior of the crew module beneath the escape tower, and both would sit on the nose of the vehicle. The base of the first-stage booster motor would feature an aft skirt containing the hydraulics for the thrust vector control system, auxiliary power system, and booster separation motors. The skirt would be attached to the base of a mobile launch platform modified from today's shuttle usage.

Analyses showed that costs, complexity, and production time would decrease if the CLV second stage and Earth departure stage (EDS) in the heavy-lift booster were similar and more compatible. The EDS would feature a pair of J-2 engines. But replacing the SSME with a J-2 on the CLV would result in less thrust. This loss of thrust would require a longer booster to make the same CLV payload targets called for in Vehicle LVB 13.1. Thus a five-segment booster motor was substituted for the first stage. (以下略)

Thu July 20, 2006 [Space News](http://www.space.com/spacenews/) <http://www.space.com/spacenews/>

Eutelsat の成長は予想したよりも大きい

Eutelsat Growth Stronger than Expected

PARIS — Satellite-fleet operator Eutelsat Communications reported a 5.4-percent increase in revenue for the year ending June 30, with broadband access and government business

showing especially strong growth, Paris-based Eutelsat announced July 20.

商用衛星はオービタルの成長の力に

Commercial Satellites Drive Growth at Orbital

PARIS — Orbital Sciences Corp.'s commercial satellite division

will post profit margins of between 5 and 6 percent in 2006 on

the strength of continued strong demand and reduced research-and-development expenses that accompanied a boost

in the product's performance, company officials said July 20.

タレスは衛星航法ビジネスを売却

Thales Sells Its Satellite Navigation Business

PARIS-- Thales Group of France has sold its satellite-navigation division to a group of U.S. private-equity companies led by Shah Capital Partners for \$170 million, a move that is in line with

Thales' decision to exit consumer and other non-core businesses, Thales and Shah Capital announced July 20.

グローバルスターは上場を公表；日程は設定されていない

Globalstar Files for IPO; No Date Set

WASHINGTON — Globalstar Inc. of Milpitas, Calif., hopes to raise \$100 million through an initial public offering (IPO) of stock, the

company announced July 18.

Metop - 打上げは少なくとも1週間の遅れ

Metop-A Launch Delayed at Least a Week

PARIS — The launch of Europe's Metop-A polar-orbiting weather satellite aboard a Russian Soyuz rocket was canceled two minutes before liftoff July 19 for unspecified reasons. The third aborted launch attempt in as many days, it will force Soyuz

launch teams to change out numerous rocket components, with a fresh launch attempt unlikely for at least a week and perhaps longer, launch managers said.

Falcon 1 の事故は破壊したナットであることが突き止められた

Falcon 1 Failure Traced to a Busted Nut

WASHINGTON — A busted nut, not human error, is to blame for the fuel leak that doomed the Falcon 1 rocket on its maiden flight,

according to the findings of a government review board chartered to investigate the March 24 launch failure.

Metop-A 打上げは第2の日も中止

Metop-A Launch Scrubbed for Second Day

DARMSTADT, Germany — The launch of Europe's Metop-A meteorological satellite aboard a Russian Soyuz rocket was

scrubbed July 18 after the vehicle's onboard sensors falsely indicated a problem during fueling, officials said.

トルコはトルコの画像衛星の入札を行なう

Turkey Seeks Bids on Turnkey Imaging Satellite

PARIS — The Turkish military July 14 published a request for bids from companies interested in providing a turnkey optical

satellite surveillance system, with a bid deadline set for Nov. 17.

アップデート：上院はNASAに緊急補正予算\$1Bを承認

UPDATE: Senate Panel Approves \$1 Billion in Emergency Funding for NASA

WASHINGTON — Despite the objections of Sens. Pete Domenici (R-N.M.) and Larry Craig (R-Idaho), the Senate Appropriations

Committee today approved an amendment that would add \$1 billion in emergency funding to NASA's 2007 budget.

言うことをきかないセンサにもかかわらず、Venus Express は運用準備完

Despite Balky Sensor, Venus Express Ready for Operations

PARIS — Europe's Venus Express satellite, which entered Venus orbit in April, has cleared its commissioning phase and is ready to begin formal operations despite the fact that one of its seven

observing instruments is not functioning, the European Space Agency (ESA) said July 12.

Week of July 24, 2006 [Sat News](#) For the full text go to: <http://www.satnews.com/>

ロッキードは近代化 GPS 衛星5号機を完成し9月半ば打上げを目指す

... [Lockheed Completes 5th Modernized GPS Satellite; Gears Up for Mid-September Launch](#)

腐食したナットが Falcon 1 ロケットの失敗に、政府委員会結論

... [Corroded Nut Doomed Falcon 1 Rocket, Govt Panel Concludes](#)

MetOp 衛星初号機打上げ無期限延期

... [Launch of First MetOp Satellite Postponed Indefinitely](#)

アリアンスペースは JCSAT-10 の 8 月 11 日打上げ準備開始

... [Arianespace Begins Preparations for JCSAT-10 August 11 Launch](#)

ロッキードは MUOS モバイルユーザ用衛星の慣性装置にノースロップ社を選定

... [Lockheed Selects Northrop's Inertial Unit for Mobile User Objective System Satellite](#)

ノースロップとボールエアロスペースのチームは JWST 宇宙望遠鏡の主鏡の音響振動テストを完了

... [Northrop, Ball Aerospace Team Completes Critical Vibro-Acoustic Tests on JWST Primary Mirror](#)

GlobeTel は Sanswire II 飛行試験に遅れ

... [GlobeTel Delays Sanswire II Flight Test](#)

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

ロッキードマーチンは NASA、米空軍と共に AIAA Space 2006 コンフェレンスを San Jose で開催

July 24, 2006 [Lockheed Martin Joins With NASA And U.S. Air Force To Bring Space 2006 Conference To Silicon Valley](#)

<http://www.lockheedmartin.com/wms/findPage.do?dsp=fec&ci=17795&rsbci=0&fti=111&ti=0&sc=400>

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

ボーイング 2,000 機目の次世代 737 を納入

Jul. 26, 2006 [Boeing Delivers the 2,000th Next-Generation 737](#)

http://www.boeing.com/news/releases/2006/q3/060726c_nr.html

ボーイングと米陸軍は Block III Apache Longbow システム開発と実証契約を結ぶ

Jul. 26, 2006 [Boeing and U.S. Army Sign Block III Apache Longbow System Development and Demonstration Contract](#)

http://www.boeing.com/news/releases/2006/q3/060726b_nr.html

7/15/2006 to 7/21/2006 [AstroExpo.com](#) <http://www.astroexpo.com/News/TopNews.asp>

Business News

スペースアドベンチャ社はオービタル宇宙飛行の申込み者にスペースウォークのオプションを発表

7/21/2006 – [Space Adventures Announces Spacewalk Option for Orbital Spaceflight Clients](#)

<http://www.astroexpo.com/news/newsdetail.asp?ID=26755&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

The first and only company in the world to have sent private citizens to space now offers the opportunity for their clients to walk in space! July 21, 2006 – Space Adventures, Ltd., the

world's leading space experiences company, announced today that orbital spaceflight clients can now participate in a spacewalk during their stay aboard the Inter – Click here for more...

グローバルスターは一般株の上場を公表

7/20/2006 – Globalstar Files Registration Statement for Initial Public Offering of Common Stock

<http://www.astroexpo.com/news/newsdetail.asp?ID=26727&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

MILPITAS, CA., July 18 2006 – Globalstar, Inc. announced today it has filed a registration statement on Form S-1 with the Securities and Exchange Commission for a proposed initial public

offering of shares of its common stock. Globalstar intends to use the net proceeds of the offering, together with the proceeds under its credit facility, the i – Click here for more...

FAA は FAA テレコム・インフラ・ネットに対する東海岸衛星通信ゲートウェイを発足させる

7/19/2006 – FAA Inaugurates East Coast Satellite Communications Gateway for FAA Telecommunications Infrastructure Satellite Network

<http://www.astroexpo.com/news/newsdetail.asp?ID=26704&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

WOODBINE, Md., July 19 /PRNewswire/ -- Representatives of the Federal Aviation Administration (FAA), Harris Corporation (NYSE: HRS), Americom Government Services, and Globecom Systems Inc., will be holding a ribbon-cutting ceremony in

Woodbine, Maryland today to inaugurate the first of two “gateway” teleports for the FAA Telecommunications Infrast – Click here for more...

レイセオンはインドにおいて宇宙ベースの航法システムのデモを完了

7/18/2006 – Raytheon Completes Demonstration of Space-Based Navigation System in India

<http://www.astroexpo.com/news/newsdetail.asp?ID=26681&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

FARNBOROUGH, U.K., July 18, 2006 /PRNewswire/ -- Raytheon Company successfully completed the Preliminary System Acceptance Test for the GPS Aided GEO Augmented Navigation-Technology Demonstration System (GAGAN-TDS).

“This test was significant because the GAGAN-TDS ground elements supplied by Raytheon were installed and integrated ahead of sc – Click here for more...

ロッキードマーチンは近代化 GPS 衛星の 5 号機を完成

7/18/2006 – Lockheed Martin Completes 5th Modernized GPS Satellite

<http://www.astroexpo.com/news/newsdetail.asp?ID=26685&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

Team Gearing Up for Mid-September Launch from the Cape FARNBOROUGH, England, July 18, 2006 -- Lockheed Martin [NYSE: LMT] announced today that it has completed the fifth in a series of eight modernized Global Positioning System (GPS) IIR

satellites that the company is developing for the U.S. Air Force. The spacecraft are the most technologicall – Click here for more...

ロッキードマーチンは MUOS 衛星向けにノースロップグラマンの慣性ユニットを選定

7/17/2006 – Lockheed Martin Selects Northrop Grumman Inertial Unit for Mobile User Objective System Satellite

<http://www.astroexpo.com/news/newsdetail.asp?ID=26656&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

WOODLAND HILLS, Calif., July 17, 2006 -- Lockheed Martin Corporation (NYSE:LMT) has selected Northrop Grumman

Corporation (NYSE:NOC) to provide the critical navigation systems for a next generation military satellite communications

International Space News

ESAは欧州が宇宙旅行に備えるのを助力する計画

7/21/2006 – ESA to Help Europe Prepare for Space Tourism

<http://www.astroexpo.com/news/newsdetail.asp?ID=26743&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

20 July 2006 – With summer here, many people are thinking about their holiday destination. At the European Space Agency, this means thinking about a holiday in space! ESA is planning to

help up to three private companies develop business plans to get their space tourism ventures off the ground. The new initiative is called 'The Survey of Europe

ロシアと欧州は宇宙探査プロジェクトを立上げることで合意

7/21/2006 – Russia, Europe Agree to Launch Space Exploration Project

<http://www.astroexpo.com/news/newsdetail.asp?ID=26750&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

MOSCOW, July 21 (RIA Novosti) – Russia and Europe have agreed to launch a joint space-based antenna project to explore outer space, a spokesman for the Russia's space agency said

Friday. "The 12-meter deployable antenna is designed to conduct exploration of processes in space and to transmit information to Earth," Igor Panarin said on the sideli –

英国は将来の宇宙プロジェクトに関してアルジェリアと協力する予定

7/20/2006 – UK to Co-operate with Algeria on Future Space Projects

<http://www.astroexpo.com/news/newsdetail.asp?ID=26724&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

FARNBOROUGH, SURREY, UK – 20 July 2006 – The UK Government has announced a new co-operative deal with Algeria on future space projects. It was announced at the Farnborough

Air Show where a new British Mars exploration vehicle was also on show. The UK government signed an agreement with Algeria this week, on co-operation in space projects. The agr

中国は2012年に太陽の探査を計画

7/20/2006 – China Plans Exploration of the Sun in 2012

<http://www.astroexpo.com/news/newsdetail.asp?ID=26725&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

2006-07-20 – CHINA plans to conduct a 3-year exploration of the Sun with three satellites beginning from 2012, the peak year for Sun energy, which is expected to be the first study of its kind,

Xinhua news agency reported today. The exploration will focus on Sun-Earth space environment to offer data for space disaster alerts and develop the cou

インドのISROの捜索救難ネットワークは30名の生命を救う

7/19/2006 – ISRO Search and Rescue Network Saves 30 Lives

<http://www.astroexpo.com/news/newsdetail.asp?ID=26708&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

July 19, 2006 – ISRO's satellite-based search and rescue network has helped in saving 30 crew members of a Panama registered ship 'Glory Moon'. The ship was drifting in the Sri

Lankan waters after its communications and navigation systems were completely destroyed in a fire that occurred on board the ship on July 11, 2006. ISRO's geostationary comm

新しい技術は宇宙飛行士が放射線被ばくするのを防ぐのに助けになる

7/18/2006 – New Technology Helps Prevent Radiation Damage to Astronauts

<http://www.astroexpo.com/news/newsdetail.asp?ID=26671&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

BEIJING, July 17 (Xinhua) -- A new China-made software program that calculates radiation in outer space has prevented Chinese astronauts from getting radiation sickness during the

country's two manned space missions, said a Chinese space environment expert here on Monday. "The space environment prediction technology will play a more importa

Launch News

スペースシャトルアトランティスは VAB ビークル組立棟に移動するようセットされる

7/21/2006 – Space Shuttle Atlantis Set to Move to Vehicle Assembly Building

<http://www.astroexpo.com/news/newsdetail.asp?ID=26746&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

July 20, 2006 – NASA invites news media to witness an important milestone for the upcoming Space Shuttle Atlantis mission, designated STS-115. On Monday, July 24, Atlantis is

scheduled to be moved out of its hangar at NASA's Kennedy Space Center, Fla. The first motion is expected at 6 a.m. EDT. Media must arrive at Kennedy's News Center by 5 a.m. t

DARPA は Falcon 1 打上げロケットが飛行再開するのを承認

7/21/2006 – DARPA Approves Return to Flight for Falcon 1 Launch Vehicle

<http://www.astroexpo.com/news/newsdetail.asp?ID=26747&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

July 18, 2006 – The government board review of the March 24 attempted launch of the Space Exploration Technologies Falcon 1 launch vehicle has reported its findings. Based on the results

of the board's review, the Director of the Defense Advanced Research Projects Agency (DARPA) has given the approval for the Falcon 1 launch vehicle to return to fl

日本はスパイ衛星を 9 月に打上げ予定

7/20/2006 – Japan to Launch Spy Satellite in September

<http://www.astroexpo.com/news/newsdetail.asp?ID=26718&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

Tokyo, July. 19 : Japan will launch a third spy satellite in September to monitor North Korean activity, a news report said on Wednesday. Japan's space agency, JAXA, will launch the

country's third spy satellite using an H-2A rocket on Sept. 10, Kyodo News agency said, quoting unidentified government officials. JAXA plans to launch a fourth

欧州の衛星のロシアのロケットによる打上げは 2 ヶ月の遅れに直面

7/20/2006 – European Satellite on Russian Rocket Faces Two Month Launch Delay

<http://www.astroexpo.com/news/newsdetail.asp?ID=26719&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

LONDON, July 20 (RIA Novosti) – The first launch of a new generation carrier rocket, Soyuz-2.1a, has been delayed for two months for technical reasons, a spokesman for the Federal

Space Agency said Thursday. The rocket was to have piggybacked a European weather satellite into orbit from Baikonur space center this week, but the launch was delayed

第 45 宇宙ウイングはシャトルミッションの成功を支える

7/18/2006 – 45th Space Wing Supports Successful Shuttle Mission

<http://www.astroexpo.com/news/newsdetail.asp?ID=26676&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

7/17/2006 – PATRICK AIR FORCE BASE, Fla. -- The 45th Space Wing provided continued support of the Space Shuttle Discovery from its launch on July 4 to its landing at Kennedy

Space Center, Fla., July 17 at 9:14 a.m. (EDT). The men and women of the Department of Defense Manned Spaceflight Support Office operated an around-the-clock Support Operat

ディスカバリーはフロリダに着陸

7/17/2006 – Discovery Lands in Florida

<http://www.astroexpo.com/news/newsdetail.asp?ID=26663&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

07.17.06 – The six-member crew of STS-121 has left Discovery. The astronauts took their first steps out of the orbiter at Kennedy Space Center to move into the Crew Hatch Access

Vehicle, where they were given a brief medical exam to ensure they're healthy. After receiving a clean bill of health by doctors, Commander Steve Lindsey and his crew took

Program News

Cassini は Titan の Xanadu 地域は地球のような土地であることをあきらかに

7/20/2006 – Cassini Reveals Titan's Xanadu Region To Be an Earth-like Land

<http://www.astroexpo.com/news/newsdetail.asp?ID=26713&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

July 19, 2006 – New radar images from NASA's Cassini spacecraft revealed geological features similar to Earth on Xanadu, an Australia-sized, bright region on Saturn's moon Titan.

These radar images, from a strip more than 2,796 miles long, show Xanadu is surrounded by darker terrain, reminiscent of a free-standing landmass. At the region's west

打上げから 6 ヶ月で New Horizons は木星に向けて必至に進む

7/20/2006 – Six Months after Launch, New Horizons Screaming its Way towards Jupiter

<http://www.astroexpo.com/news/newsdetail.asp?ID=26738&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

19 July, 2006 – Exactly six months after its January 19 launch, and with nine years to go before its closest approach to Pluto in June of 2015, New Horizons is "screaming its way across the

solar system" said mission Principal Investigator Alan Stern of the Southwest Research Institute. Moving at 70,000 kilometers (43,500 miles) per hour, New Horiz

STS-121 ミッション管制センター ステータス・レポート#26

7/19/2006 – STS-121 MCC Status Report #26

<http://www.astroexpo.com/news/newsdetail.asp?ID=26701&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

July 17, 2006 – Mission Control Center, Houston, Texas – A smooth landing by the Space Shuttle Discovery at the Kennedy Space Center this morning completed the second return to flight

test mission and set the stage to resume assembly of the International Space Station later this summer. Discovery and its crew of six astronauts touched down on ru

上段複合材がロケットインテグレーション設備に移送される

7/17/2006 – Upper-composite Transferred to Launcher Integration Facility

<http://www.astroexpo.com/news/newsdetail.asp?ID=26650&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

14 July 2006 – Following the encapsulation of MetOp and the Fregat upper-stage in the fairing a few days ago, the so-called 'upper-composite' has taken the overnight train journey to the

Soyuz launcher preparation facility to be integrated onto the launcher before the complete structure is rolled out to the launch pad today. In preparation for

STEREO は打上げに備える

7/17/2006 – STEREO Prepares for Launch!

<http://www.astroexpo.com/news/newsdetail.asp?ID=26664&ListType=TopNews&StartDate=7/15/2006&EndDate=7/21/2006>

17 July 2006 – UK solar scientists are eagerly awaiting the launch of NASA's STEREO mission which will provide the first ever 3D views of the Sun. STEREO (Solar TERrestrial RELations

Observatory) comprises two nearly identical observatories that will orbit the Sun to monitor its violent outbursts Coronal Mass Ejections (CMEs) and the space weather i

25-Jul-2006 JDW, Jane's Defence Weekly <http://jdw.janes.com/public/jdw/index.shtml>

タレスは DISCUS センサシステムを引渡し

Thales hands over DISCUS sensor system

The new force protection systems for the Uruzgan camps were handed over by Thales-NL in mid-July and subsequently shipped out to Afghanistan. Known as Deployable ...

2006 年 月 日 時事通信社「世界週報」 月 日号 [目次抜粋]

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

[NEWS]

- 7/27 Titan に霧雨(共)
- 7/26 1943GMT(7/27 0443JST)打上失敗:小型衛星多数,Dnepr,Baikonur /// 日本大学の SEEDS も。残念
- 7/26 M-V の廃止方針を宇宙開発委員会に報告(JAXA,共,時,毎,読,朝,経)
- 7/25 海底訓練中の若田飛行士が電話会見(共,時,毎,読,朝)
- 7/24 Titan にメタンかエタンの液体の湖(NASA,読)
- 7/23 CAMUI ロケット 7/30 予定の打上を再延期(HASTIC)
- 7/22 若田飛行士が海底訓練を開始(NHK)
- 7/22 米 Space Adventures 社の宇宙旅行 40 億円で宇宙遊泳体験も(共,読,経)
- 7/20 国立情報学研究所が過去 25 年の台風の衛星画像を公開(経,読)
- 7/20 M-V は今年で廃止の方針(共)
- 7/19 MHI 飛鳥工場で H-2B の生産準備に着手(中日新聞)

[予定]

- 7/28 0705GMT 打上:(韓)地球観測衛星 KOMPSAT 2,Rocket,Plesetsk
- 7/26 1943GMT(7/27 0443JST)打上:{ベラルーシ BelKA,露 Baumanets,伊 UniSat4, 伊 PicPot, CubeSat × 14}, Dnepr,Baikonur
- CubeSat 14 機の内訳は
- 米国:AeroCube-1, CP1, CP2, ICE Cube 1, ICE Cube 2, ION, KUTESat, MEROPE, RINCON, SACRED, VOYAGER
- 韓国:HAUSAT-1, /// ノルウェー:nCUBE-1, /// 日本大学:SEEDS

[EVENT]

- 7/31 月周回衛星 SELENE シンポジウム,経団連ホール,大手町
- 7/31-8/4 第 5 回 君が作る宇宙ミッション,ISAS 相模原
- 7/29 ISAS 一般公開,ISAS 相模原
- 7/26 JAXAi マンスリートーク「宇宙での暮らし 宇宙食 Q&A」中沢孝氏

[学会]

- 8/1-2 16th JAXA Workshop on Astrodynamics and Flightmechanics,ISAS 相模原
- 7/30 申込締切:18th International Symposium on Air Breathing Engines(ISABE), 2007/9/2-7,北京
- 7/28 IEICE 宇宙・航行エレクトロニクス研究会,電子航法研究所,調布
- 7/26-28 第 48 回構造強度に関する講演会,神戸ポートピアホテル

[TV]

7/31-(2 話ずつ) 1600-1650 NHK-HV (再)プラネテス

7/31 0900-1032 NHK-BS2 映画「11 人いる!」

ディスカバリーチャンネル

・7/30 2000-2100,7/31 0800-0900,1300-1400 彗星探査機ディーブインパクト

・ 7/30 1900-2000,7/31 0700-0800,1200-1300 火星移住計画

7/30 1715-1730 サイエンスチャンネル(再)「空へ 宇宙へ -JAXA2006-」

[etc]

7/25 新刊:河井克行「国家としての宇宙戦略論」誠文堂新光社

[宇宙開発] http://dailynews.yahoo.co.jp/fc/science/space_exploration/

- 韓国航空大の超小型人工衛星、打上げ失敗(YONHAP NEWS) (27 日 11 時 37 分)
- タイタンにじっくり霧雨 探査機データで判明(共同通信) (27 日 2 時 4 分)
- <M5ロケット>9月の打上げを最後に廃止 JAXA(毎日新聞) (26 日 20 時 37 分)
- 「M5」ロケット運用終了、新たに低コスト型開発へ(読売新聞) (26 日 20 時 9 分)
- M5後継機を開発へ 宇宙機構、既存技術を活用(共同通信) (26 日 20 時 7 分)
- M5ロケット廃止へ—宇宙機構(時事通信) (26 日 17 時 15 分)
- 人工衛星 2 基、27 日と 28 日に相次ぎ打上げ(YONHAP NEWS) (26 日 16 時 57 分)
- M5ロケット 9 月 23 日、最後の打上げ - 南日本新聞 (26 日 13 時 21 分)
- 土星の衛星タイタンに湖? 液体状態のメタンかエタンか(読売新聞) (25 日 23 時 35 分)
- 「火星探査にも参加したい」若田さん、海底から会見(読売新聞) (25 日 13 時 14 分)
- 「宇宙に非常に近い」と若田さん=月・火星探査に向け海中訓練(時事通信) (25 日 13 時 1 分)
- 潜水施設で訓練中の若田さん(時事通信) (25 日 12 時 22 分)

<http://headlines.yahoo.co.jp/hl?a=20060725-04612379-jjip-int.view-001>



- <宇宙飛行士>若田さん、有人宇宙探査活動にも意欲(毎日新聞) (25 日 11 時 38 分)
- 「月、火星にも行きたい」海中で訓練中の若田さん(共同通信) (25 日 11 時 33 分)
- スペースシャトル、組立棟に(時事通信) (25 日 9 時 43 分)

<http://headlines.yahoo.co.jp/hl?a=20060725-04611607-jjip-int.view-001>

- 米VB開発の低価格ジェットが離陸(フジサンケイ ビジネスアイ) (25 日 8 時 32 分)
 - 宇宙遊泳の料金は17億円…米の旅行会社が発売(読売新聞) (22 日 13 時 2 分)
-

- 竜山米軍基地の跡地、複合開発地区として開発(YONHAP NEWS) (27日 15時 13分)
 - 米国民、中東和平実現や米軍の早期イラク撤退を疑問視＝世論調査(ロイター) (27日 14時 15分)
 - 米軍の朝鮮半島長期駐留、韓米同盟青写真に明示(YONHAP NEWS) (26日 15時 44分)
 - 北ミサイルはラプコール 寛大に対処を 山崎氏、米で講演(産経新聞) (26日 15時 31分)
 - 米原子力空母の釜山寄港、労働新聞などが非難(YONHAP NEWS) (26日 14時 47分)
 - 米イラク首脳会談、バグダッドに両軍増派で合意(ロイター) (26日 10時 30分)
 - バグダッドに兵力追加投入 米、イラク首脳が合意(共同通信) (26日 10時 7分)
 - 普天間未解決「謝りたい」 アーミテージ前国務副長官(琉球新報) (26日 9時 48分)
 - テロ特措法延長を要請 米国防次官補が山崎氏に(共同通信) (26日 8時 46分)
 - 敵基地攻撃は憲法上困難 山崎氏、日米安保で対応(共同通信) (26日 8時 41分)
 - 米大統領とイラク首相 バグダッドの米軍増強合意(産経新聞) (26日 8時 2分)
 - バグダッドに米軍追加投入 米、イラクが首脳会談(共同通信) (26日 1時 44分)
 - バグダッドの治安対策協議 米、イラクが首脳会談(共同通信) (25日 17時 14分)
 - パトリオット、沖縄市側4カ所に配備(琉球新報) (25日 16時 53分)
 - 米、人道支援を表明 対レバノン(産経新聞) (25日 15時 8分)
 - 「嘉手納」以外PAC3配備も 全基地「迎撃態勢」の可能性(琉球新報) (25日 9時 37分)
 - 尹国防部長官「汚染回復なく米軍基地の返還はない」(YONHAP NEWS) (25日 9時 9分)
 - <山崎前副総裁>米国へ出発 ローレス国防副次官らと協議へ(毎日新聞) (24日 23時 14分)
 - イスラエル首相、欧州中心の国際部隊展開を容認(読売新聞) (24日 12時 30分)
 - 守屋防衛次官留任へ、省昇格にらみ異例の4年目(読売新聞) (23日 11時 33分)
 - テポドン2号の効果はイージス艦の16倍、KIDA(YONHAP NEWS) (22日 18時 10分)
 - 米国務長官 23日からイスラエル訪問(産経新聞) (22日 16時 23分)
 - ライス米国務長官、23日から中東訪問(ロイター) (22日 11時 5分)
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- 対印核協力法案を可決 米下院、年内成立の公算(共同通信) (27日 11時 35分)
- <FBI>米本土攻撃防止の担当部署新設(毎日新聞) (27日 10時 44分)
- ARFの6か国外相会合、米国務長官が否定的発言(読売新聞) (27日 10時 48分)
- 「6か国外相会合ない」米国務長官(共同通信) (27日 9時 40分)
- 核廃絶テーマに広島大でシンポ - 中国新聞 (25日 17時 21分)
- <パキスタン>新たな重水炉を建設中 米シンクタンク分析(毎日新聞) (25日 11時 51分)
- 「核兵器完成間近だった」リビアのカダフィ大佐(共同通信) (25日 10時 23分)
- 北朝鮮非難の安保理決議に言及＝ARFの役割強調－ASEAN共同声明案(時事通信) (25日 7時 1分)
- パキスタンが新型原子炉、完成後は核製造能力20倍に(読売新聞) (24日 21時 20分)
- イラン核、スイスで国際会議計画…安保理と日本など(読売新聞) (24日 20時 4分)
- パキスタンが重水炉建設 年間50個の核兵器と米紙(共同通信) (24日 18時 59分)
- 核被害根絶を目指しシンポ 広島大、被爆地から訴え(共同通信) (24日 18時 45分)
- 広島原爆 カメラのフラッシュ「今でも恐怖がよみがえる」(毎日新聞) (24日 17時 22分)

- 新たなプルトニウム生産炉＝年間 50 個の核兵器製造可能に－パキスタン(時事通信) (24 日 17 時 1 分)
- <広島原爆>カメラのフラッシュ「今でも恐怖がよみがえる」(毎日新聞) (24 日 3 時 9 分)
- <広島原爆>投下3年後、被爆者に初のPTSD調査(毎日新聞) (24 日 3 時 2 分)
- 北朝鮮に核実験の動き？ 中国が察知かと米専門家(共同通信) (23 日 18 時 44 分)
- 米大統領、レバノン問題でシリアとイランを非難(ロイター) (23 日 17 時 20 分)
- 米大統領、「テロ支援」とシリア・イラン非難(読売新聞) (23 日 3 時 16 分)
- テポドン 2 号の効果はイージス艦の 16 倍、KIDA(YONHAP NEWS) (22 日 18 時 10 分)
- 北朝鮮の核実験警戒 米高官、現時点で兆候なし(共同通信) (22 日 16 時 30 分)
- 「幼い弟ではない。核保有国だ」＝ミサイル発射阻止圧力に反発－北朝鮮次官(時事通信) (22 日 11 時 0 分)

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

7/24 「ニュース」更新:

イラク支援群 /// 宿営地から撤収完了 /// イラク・ドキュメント(2006.7.11～7.17)

北のミサイル発射 /// 安保理が非難決議 中露含め全会一致

「敵基地攻撃能力、議論必要」会見で額賀長官

19 年度 防衛施設庁解体 /// 新組織案固まる 地方企画局など新設

UNDOF派遣期間6ヵ月延長

防衛庁 /// 女性職域拡大目指す /// 配置見直しへ基本計画

観艦式の乗艦 希望者を公募

[民間航空機関連 (ex-SJAC 三輪さん)]

2006 年 7 月 25 日 1:14 AIA dailyLead aia@dailylead.com July 24, 2006 -

「我々は自分の限界を知らねばならない。我々は確かにたいしたものではあるが、すべてであるとは言えない。」

フランス数学・科学・哲人 パスカル

“We must learn our limits. We are all something, but none of us are everything.”

—Blaise Pascal, French mathematician, physicist and philosopher

 2006 年 7 月 22 日 1:31 AIA dailyLead aia@dailylead.com July 21, 2006

「真実 それはいつもワクワクする。いったんそれを話せば、真実不在の生き方はいかに味気ないものかわかる。」

ピューリッツァ受賞作家 パール S バック

“The truth is always exciting. Speak it, then. Life is dull without it.”

—Pearl S. Buck, Pulitzer Prize winning author

 2006 年 7 月 21 日 1:38 AIA dailyLead aia@dailylead.com July 20, 2006 -

「失点を受け入れなければ ゲームに勝てない。」

米国サッカーコーチ ヴァンス ロンバルディ

“If you can't accept losing, you can't win.”

—Vince Lombardi, National Football League coach

2006年7月20日 2:10 AIA dailyLead aia@dailylead.com July 19, 2006 -

「幸福とは、健康、かつ、物忘れする事 以外のなにものでもない。」

ノーベル平和賞受賞者 アルバート シュワイツァー

“Happiness is nothing more than good health and a bad memory.”

—Albert Schweitzer, Nobel Peace Price recipient

2006年7月25日 1:14 AIA dailyLead aia@dailylead.com July 24, 2006 -

米国防衛市場を狙う外国企業

Foreign defense firms eye U.S. market

Foreign defense contractors are competing for contracts to build weapons for the U.S., which has the largest military budget in the world. “In a way, we’re not concerned,” Aerospace Industries Association President John Douglass said. “Most of the jobs are staying here in the U.S., and the countries that are doing this are by and large staunch American allies.” Chicago Tribune (7/23)

航空宇宙企業の熱い視線 インド市場へ

Aerospace firms court India for new contracts

Aerospace executives from all over the world are visiting India to try to get the government to buy their weapons and commercial aircraft. Boeing and Lockheed Martin are among the companies expected to compete for a contract to provide India with fighter jets. Fort Worth Star-Telegram (Texas) (7/23)

ボーイング 加州アナハイム新工場計画

Boeing to close Anaheim plant, but says no layoffs planned

Boeing will close its space and defense plant in Anaheim, Calif., and move its 3,000 workers to Huntington Beach, Calif., by the end of the decade. The company does not plan to lay off any workers at this time, a spokeswoman said. Fort Worth Star-Telegram (Texas) /Associated Press (7/21)

ロッキード 新型 UAV ポールキャット発表

Lockheed unveils Polecat UAV

Lockheed Martin recently unveiled its prototype Polecat to compete with Boeing and Northrup Grumman in unmanned aerial systems. The Polecat’s wings are designed to flex and help it achieve altitudes of 60,000 feet or higher. Engineers designed Polecat using 98% composites, aside from landing gear, avionics and engines, and it consists of fewer than 200 parts -- all to bring costs down. Aviation Now /Defense (7/23)

歴史的 B-29 復元計画 ウィチタで進行中

Volunteers restoring historic B-29

Volunteers are restoring a B-29 Superfortress inside a Boeing hangar in Wichita and hope to return the plane to flying condition. The bomber will be put on display for the public in September. The Wichita Eagle (Kan.) (7/23)

シンガポール航空 エアバス A380 および A350XWB 29機発注

Singapore Airlines agrees to purchase 29 Airbus jets

Singapore Airlines on Friday signed a letter of intent to purchase nine additional A380 jetliners and 20 A350 XWB mid-sized jets. The deal is worth \$7.5 billion, based on list prices. Bloomberg /ClipSyndicate (7/24), The Wall Street Journal /Dow Jones Newswires (7/23)

エアバス A380 補強作業 生産日程の遅れを生じない と広報

Airbus says A380 glitches won't slow production

Airbus admits it had to reinforce the rear fuselage of its superjumbo A380 but says the reworking won't change the plane's production

schedule. "It is absolutely not abnormal during the development phase of any aircraft that you find you have to do reinforcements here and there," Airbus spokeswoman Barbara Kracht says. The Washington Post /Associated Press (7/24)

アメリカン航空 CEO 労使のチームワークが経営効率強化につながると

American CEO focuses on teamwork to improve efficiency

American Airlines Chief Executive Gerald Arpey says airline executives and workers must collaborate for the carrier to become more efficient. American is the only large airline that has never filed for bankruptcy protection, and Arpey credits its success to open communication and teamwork. The New York Times (7/22)

セスナ ビジネスジェット分野の好調に支えられ 収益上昇

Cessna posts higher Q2 profits

Cessna says second-quarter profits rose to \$153 million from \$121 million the previous year, due to favorable pricing and higher business jet volume. The company also says it will announce new aircraft models later this year. The Wichita Eagle (Kan.) (7/21)

2006年7月22日 1:31 AIA dailyLead aia@dailylead.com July 21, 2006

ボーイング 787さらにオーダー発表

Boeing in talks for more 787 orders

Boeing says it is in talks for an additional 500 orders for its 787 Dreamliner. The company has already booked 360 orders. Continental Airlines and Northwest Airlines are the only U.S. airlines that have ordered the plane. Fort Worth Star-Telegram (Texas) (7/20)

エアバス、ボーイング エアショウ それぞれの展示

Airbus, Boeing display different styles at Farnborough

The Farnborough International Airshow reveals how the world's two major airliner manufacturers view themselves and their futures. Airbus was founded just three decades ago and has billed itself as a feisty upstart. Boeing lost the lead in orders to Airbus from 2000 to 2005, but recaptured it this year. The Washington Post (7/21)

アメリカン、サウスエスト 燃料税につき論評

American, Southwest also want break on fuel tax

American Airlines and Southwest Airlines want the same breaks on fuel taxes that Chicago and Illinois have offered United Airlines. United recently agreed to keep its headquarters in Chicago. "We think the presumption is it would be unfair, and probably discriminatory, to affect the jet-fuel taxes of one carrier and not another," an American spokeswoman says. Chicago Tribune (7/21)

2006年7月21日 1:38 AIA dailyLead aia@dailylead.com July 20, 2006 -

ファンボロにて ボーイング、エアバスともに受注案件発表

Boeing, Airbus announce large orders at Farnborough

Boeing received an order worth \$1.2 billion from International Lease Finance at the Farnborough International Airshow on Wednesday. Meanwhile, Airbus announced new orders for more than 60 planes at Farnborough. Boeing was expected to announce today it has landed more than 500 commercial jet orders so far this year. The Seattle Times (7/20), Houston Chronicle /Associated Press (7/19), The Wall Street Journal /Dow Jones Newswires (7/20), The Wichita Eagle (Kan.) (7/20)

ロシア スーホイ 100席リージョナル機 開発ローンチ

Russian firm to launch 100-seat passenger jet

Russia's Sukhoi Holding Company this week announced plans to build a 100-passenger regional jet. The Sukhoi Superjet 100 marks Russia's return to the passenger jet market. The New York Times (7/20)

環境(エコ)意識が航空機でも高い関心事項

Eco-awareness becoming priority for aviation

The aviation industry is trying to balance customer comfort with the need to become more environmentally friendly. At the Farnborough International Airshow this week, aircraft manufacturers are touting fuel efficiency, lower emissions and "greener" building processes. BBC (7/19)

AIA その他工業会の国際パートナー 倫理綱領につき 議論はじめる

AIA, international partners meet to initiate ethics roundtable

Farnborough, England – The Aerospace Industries Association of America and four international partners in the International Coordinating Council of Aerospace Industries Associations – Brazil, Canada, Europe and Japan – announced plans Wednesday at the Farnborough International Airshow to establish a new initiative of regular consultations on aerospace business ethics. Click here to read more.

2006年7月20日 2:10 AIA dailyLead aia@dailylead.com July 19, 2006 –

ボーイング CEO エアバス A350 はアンビシャスだと発言

Boeing CEO calls Airbus A350 design "ambitious"

Boeing Chief Executive James McNerney called Airbus' plan to overhaul its A350 jetliners "ambitious," but he noted that it is too early to tell whether the plane will threaten Boeing's 777 and 787. "I don't feel any less comfortable about our position today than I did the day before yesterday," McNerney said. Airbus unveiled its A350 redesign Monday at the Farnborough International Airshow. Los Angeles Times (7/19)

ボーイング787生産 計画通り順調に展開と発表

Boeing 787 production progressing, executive says: Boeing's partners around

the world have started production of the 787 jetliner, Boeing Vice President Mike Bair says. "All of our partners are well along the path of finishing designs, installing and qualifying tooling and testing prototypes," Bair says. "And for our long-lead items, we've started production of the first pieces." Breaking Travel News (7/19)

ラガーディア空港(NY) 停電で デルタ、アメリカン等フライト休止

LaGuardia power outage grounds Delta, American flights

Power outages at New York's LaGuardia Airport forced American Airlines and Delta Air Lines to cancel dozens of flights Tuesday. The airport's passenger screening machines do not work without electricity, and the carriers could not manually screen all the passengers and luggage. American and Delta expect normal operations today. Separately, Los Angeles Air Route Traffic Control Center experienced an 80-minute power outage on Tuesday that shut down all telephone, electrical and radar functions. Thousands of travelers across the western U.S. and Canada had their plans disrupted. The Wall Street Journal /Dow Jones Newswires (subscription required) (7/18), The Washington Post (free registration) (7/18), The Mercury News /Associated Press (7/19)

GE アヴィエーション エンジン、サービスの大型受注29億ドルを発表

GE Aviation lands \$2.8B in engine, service contracts

GE Aviation announced contracts worth more than \$2.8 billion for aircraft engines and services Tuesday at the Farnborough International Airshow. The company received contracts from Cathay Pacific Airways, International Lease Finance and Emirates, among others. The Cincinnati Enquirer (7/19)

【新刊紹介】 国家としての「宇宙戦略論」 河井克行他 256ページ 誠文堂新光社 1,680円(税込み)

その他の執筆者: 五代富文、田中俊二、志方俊之、稗田浩雄、中須賀真一、青木節子

内容(「MARC」データベースより)

国会議員、科学者、軍事評論家ら 7人の論客による宇宙防衛・開発論についての講話をまとめた一冊。宇宙産業の現状、日本の安全

保障と宇宙の活用、中国・アジア各国の宇宙戦略の状況とわが国の対応などについて語る。



河井克行(かわいかつゆき)

衆議院議員／自民党／広島3区

昭和38(1963)年3月1日広島県生まれ

慶應義塾大学法学部政治学科卒 /// 松下政経塾6期生

広島県議会議員(広島市安佐南区)当選1回

衆議院議員(広島3区、中国ブロック)当選2回

<http://www.mskj.or.jp/profile/kawaikatu.html>

生年月日 昭和38年3月11日生

<http://www.kantei.go.jp/jp/koizumiseimukan/040930/11kawai.html>



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