

China\_UAV



China\_AirLaunch

November 2006 ASCEND

**RECENT AND FUTURE LAUNCHES – OCTOBER/NOVEMBER 2006** Source: Ascend SpaceTrak Database

Satellite	Event	Date	Vehicle	Type	Manufacturer	Initial Orbit/Comments (Launch site)
DIRECTV 9S	LAUNCH: Satellite launched successfully	13/10/2006	ARIANE 5 ECA	LS-1300 (FS-1300)	SPACE SYSTEMS/LORAL	G – Communications satellite (KOUROU)
LDREX 2	LAUNCH: Satellite launched successfully	13/10/2006	ARIANE 5 ECA	LDREX	TOSHIBA CORPORATION	GTO – Experimental antenna deployment test (KOUROU)
OPTUS D1	LAUNCH: Satellite launched successfully	13/10/2006	ARIANE 5 ECA	STAR 2	ORBITAL SCIENCES CORPORATION	G – Commercial communications satellite (KOUROU)
METOP A	LAUNCH: Satellite launched successfully	19/10/2006	SOYUZ 2-1A FREGAT	SPOT MK3	ASTRIUM SATELLITES SAS	SUN-SYNCH – European weather satellite (KOUROU)
PROGRESS M-58/ISS-23P	LAUNCH: Satellite launched successfully	23/10/2006	SOYUZ U	PROGRESS M (7K-TGM)	TSSKB PROGRESS (RSC ENERGIA)	LEO – Unmanned freighter that docked with ISS (TT)
SHI JUAN 6-2A	LAUNCH: Satellite launched successfully	23/10/2006	LONG MARCH 4B (CZ-4B)	CAST 968B	SHANGHAI ACADEMY OF SPACE TECHNOLOGY	SUN-SYNCH – Scientific satellite with ELINT application (TAIYUAN)
SHI JUAN 6-2B	LAUNCH: Satellite launched successfully	23/10/2006	LONG MARCH 4B (CZ-4B)	DFH	DONGFANGHONG CO.	SUN-SYNCH – Scientific satellite with ELINT application (TAIYUAN)
STEREO AHEAD	LAUNCH: Satellite launched successfully	26/10/2006	DELTA II 7925-10L	STEREO	JOHNS HOPKINS APPLIED PHYSICS LABORATORY	HELIOCENT- Solar research satellite (CC)
STEREO BEHIND	LAUNCH: Satellite launched successfully	26/10/2006	DELTA II 7925-10L	STEREO	JOHNS HOPKINS APPLIED PHYSICS LABORATORY	HELIOCENT- Solar research satellite (CC)
SINOSAT 2	LAUNCH: Satellite launched successfully	28/10/2006	LONG MARCH 3B-4 (CZ-3B-4)	DFH 4	CAST- CHINESE ACADEMY OF SPACE TECHNOLOGY	G – Chinese communications satellite (XICHANG)
XM-4 (XM-BLUES)	LAUNCH: Satellite launched successfully	30/10/2006	ZENIT 3 SL (SEA LAUNCH)BL OK DM-SL	BOEING 702MP MODIFIE D	BOEING SATELLITE SYSTEMS INC	G – Commercial satellite radio communications satellite (ODYSSEY PACIFIC)
DMSP 17	Future launch	04/11/2006	DELTA IVM	TIROS-N (DMSP BLOCK 5D-3)	LOCKHEED MARTIN SPACE SYSTEMS	SUN-SYNCH – US weather satellite. (WTR)

ARABSAT 4B (BADR 4)	Future launch	08/11/2006	PROTON M/BREEZEM (8K82KM)	EUROSTAR E2000+	ASTRIUM SATELLITES SAS	G - Commercial communications satellite (TT)
GPS NAVSTAR IIR-M3	Future launch	14/11/2006	DELTA II 7925-9.5	GPS IIR-M LM-4000	LOCKHEED MARTIN SPACE SYSTEMS	MEO - US Air Force navigation satellite (CC)
FENG YUN 2D	Future launch	Q4 2006	LONG MARCH 3A (CZ-3A)	FY-2 (batch 2)	SHANGHAI INSTITUTE OF ENGINEERING	G - Chinese weather satellite (XICHANG)
TERRASAR-X	Future launch	/11/2006	DNEPR 1A	ASTROBUS (LEOSTAR 500XO)	ASTRIUM SATELLITES GMBH	LEO - German Radar satellite (TT)

061106DN ABL\_Rolls Out

26 DefenseNews November 6, 2006

# RandomNotes

PRODUCTS, PROGRAMS AND PEOPLE

## Boeing Rolls Out Airborne Laser

Boeing, along with industry teammates and the U.S. Missile Defense Agency (MDA), rolled out the Airborne Laser (ABL) aircraft from a modification facility in Wichita, Kan., in an Oct. 27 ceremony to mark major program milestones.

As prime contractor, Boeing is working with the MDA, the U.S. Air Force, Lockheed Martin and Northrop Grumman to develop the ABL. The aircraft's high-energy chemical oxygen iodine laser (COIL) beam is intended to stop a missile in its boost phase, while it is still climbing in Earth's atmosphere, destroying the missile before it can deploy its warheads.

Boeing is building the ABL's battle management system, supplying the modified 747-400F freighter and overseeing weapon integration. Lockheed is responsible for the beam control/fire control system, and Northrop is providing the target illuminator laser and COIL system.

The ceremony highlighted the following accomplishments:

- The Airborne Laser team in Wichita fully integrated the beam control/fire control system inside the ABL aircraft. Two solid-state illuminator lasers, part of the beam control device, and a surrogate high-energy laser were installed and fired repeatedly at a simulated ballistic missile target.
- The track illuminator laser is designed to track a target, while the beacon illuminator laser measures atmospheric turbulence that the high-energy chemical laser would encounter in its path to the target. During the ground tests, results from the illuminator firings were fed back to ABL, allowing the surrogate high-energy laser to shoot down a simulated target.
- In Wichita, the team added floor reinforcements and chemical fuel tanks to the back of the aircraft to prepare for installation of the high-energy laser in 2007.
- In California, Northrop finished ground-testing the optics that will shape the high-energy laser beam and direct it from the laser to the beam control/fire control system.

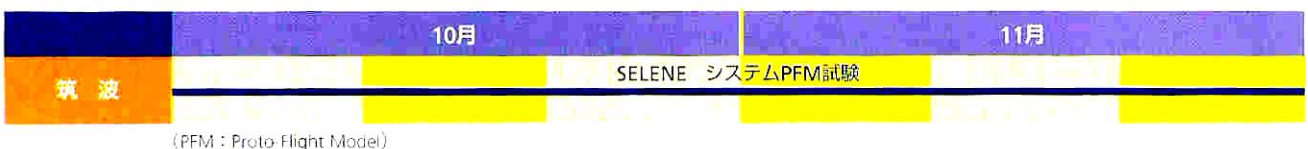
The team is preparing to begin firing the illuminators in flight at an instrumented target board on a missile-shaped image painted on a test aircraft. This test, later this year, will verify ABL's active tracking and atmospheric compensation capabilities. ■



**In Development:** The U.S. Air Force's YAL-1A Airborne Laser aircraft, a modified 747 freighter, is designed to shoot down ballistic missiles in their boost phase.

06.10 ISAS News

### ロケット・衛星関係の作業スケジュール (10月・11月)



8 ISASニュース No.307 2006.10

2006年11月16日 人民網日本語版 [http://j.peopledaily.com.cn/2006/11/16/jp20061116\\_65002.html](http://j.peopledaily.com.cn/2006/11/16/jp20061116_65002.html)

### 国内初、保安巡回ロボットの開発に成功 天津

天津市はこのほど、国内初となる保安巡回ロボットの開発に成功。同ロボットは保安全管理者と協力し地域の安全確保を効率的に行い、民間空港、高級住宅地区、重要な倉庫、デパートおよびその他の公共場所での応用が可能。(編集 SN)



### 超大型旅客機 A380、世界めぐるテスト飛行へ

世界最大の旅客機、エアバス社の A380 型機は 13 日、仏南部トゥールーズから離陸し、17 日間にわたるテスト飛行を開始した。今回のテスト飛行では中国の香港、広州、北京、上海を含む世界各国の都市を訪問予定。(編集 SN)

ト飛行では中国の香港、広州、北京、上海を含む世界各国の都市を訪問予定。(編集 SN)



Aerospace Daily & Defense Report Nov 14, 2006

### Levin 上院議員(将来の上院軍事委員会委員長)はミサイル防衛を強く求める、McCain 議員を後押し

#### Levin presses for testing of missile defense; backs McCain

Sen. Carl Levin (Mich.), the ranking Democrat on the Senate Armed Services Committee and its future chairman, said Nov. 13

that he would press for integrated testing ...

### NASA は Ares 1 ロケットは性能目標に合致と述べる

#### NASA says Ares 1 rocket meeting performance targets

NASA's Ares I Crew Launch Vehicle (CLV) is meeting its performance targets, contrary to rumors that its current design

is overweight, according to Exploration Launch Manager Steve ...

### 豪州の F/A-18 はレイセオンの RWR レーダ警戒装置を搭載することに

#### Australian F/A-18s getting Raytheon's Radar Warning Receivers

The Australian military has decided to fit the Raytheon ALR-67(v)3 Radar Warning Receiver (RWR) to its entire F/A-18

fleet instead of BAE Systems Australia's ALR 2002B, according

### ステルスと AESA レーダが空軍の編隊のコンセプトを再形成している

#### Stealth, AESA radars remolding AF fleet concepts

LANGLEY AIR FORCE BASE, Va. - The U.S. Air Force is starting to get a clearer picture of how best to use its stealthy aircraft

and advanced ...

### DOD 国防省はさらに多くの義務を負わされていない資金の情報を与えるべき: GAO 政府説明責任オフィス

#### DOD should give more info on unobligated funds: GAO

Congress should consider requiring the Department of Defense (DOD) to report how much procurement funding remains

unobligated at the end of each fiscal year and how it ...

### ラムズフェルド退任は寂しくはない、国防総省上層部はゲーツを好む

#### Rumsfeld won't be missed; Pentagon brass likes Gates

Outgoing Defense Secretary Donald Rumsfeld wasn't exactly Mr. Popularity at the Pentagon, and the brass is looking forward to

the arrival of former CIA Director Robert Gates ...

### 選挙の宇宙への影響は入り混じっている

#### Election impact on space is mixed

NASA may be in a better position to gain a \$1 billion windfall in the upcoming lame duck congressional session with the

Democrats in line to gain . . .

### レイセオンは U-2 のサポートで\$113M の契約を得る

#### Raytheon wins \$113M contract for U-2 support

U2 AWARD: The Air Force has awarded Raytheon Co. a \$113 million contract to provide field support for ground systems,

sensors, and data related to the U-2 . . .

Aerospace Daily & Defense Report Nov 13, 2006

### 補正予算に関し、取合いが現れつつある

#### Battle looming over supplemental spending

PROCESS TENSION: While immediate defense appropriations are not expected to change much, if at all, under Democratic

congressional control and after Donald Rumsfeld's departure, tension between Capitol . . .

### 選挙は政府へのボーイングをカブけるものになるかもしれない

#### Election may boost Boeing on Capitol Hill

BUOYING BOEING: Boeing may get a shot in the arm as ascendant Democrats play musical committee chairs in the

weeks ahead. Rep. John Murtha (D-Pa.) was expected . . .

### 11月22日のISS船外活動でのゴルフショットは特に脅威にはならない、ボーイングは述べる

#### Nov. 22 golf shots pose no threat to ISS, Boeing says

TEERING UP: After performing "extensive analysis," International Space Station (ISS) prime contractor Boeing concluded that the

golf balls which Flight Engineer Mikhail Tyurin plans to drive away

### ラムズフェルドの退任、民主党の上下院のコントロールはTACAIRへの変更をもたらす得る

#### Rumsfeld's ouster, Dems' arrival could bring TACAIR changes

The departure of Defense Secretary Donald Rumsfeld and new Democratic control of the House and Senate could change the

acquisition and makeup of the tactical air fleet . . .

### ミサイル防衛の予算は焦点を当られねばならない:アナリスト

#### Missile defense spending should be focused: analyst

BALLISTIC COSTS: According to an annual October report by the Congressional Budget Office (CBO) that looks at military

spending between now and 2024, total investment costs for . . .

### Hunter 共和党議員は Lucent/Alcatel を狙う; バイアメリカ衰える

#### Hunter targets Lucent/Alcatel; Buy America wanes

The House Armed Services Committee, for now under

Republican control and led by Rep. Duncan Hunter (R-Calif.), will

host a Nov. 14 hearing to receive testimony on . . .

### 科学者はタイタンのかすみの中に初期の地球を認める

#### Scientists see early Earth in Titan haze

HAZE OF TITAN: Astrobiologists have simulated the chemistry that formed organic material in the atmospheres of Saturn's

moon Titan and the early Earth, gaining insights into the . . .

### MRO マーズ・レコネッサンス・オービタは電波を出さなくなった MGS 宇宙機を撮影するかもしれない

#### MRO may image silent MGS spacecraft

NASA may have the Mars Reconnaissance Orbiter (MRO) try to photograph the silent Mars Global Surveyor (MGS) spacecraft

later this week to determine what configuration it's in . . .

### 月の氷についての論議が継続

#### Debate continues over lunar ice

Claims that ground-based radars have discredited the theory that water ice is hidden in cold traps at the moon's poles are

"overwrought," says noted lunar scientist Paul . . .

### インドは有人宇宙ミッションを推進中

#### India gears up for human space mission

The Indian Space Research Organization hopes to develop a human-rated spacecraft that can be orbited by upgrades of one

of its existing launch vehicles, and is rounding . . .

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Aerospace Daily & Defense Report Nov 10, 2006

### ボーイングは空軍の CSAR-X ヘリに関して\$10B - \$13B を獲得

#### Boeing wins \$10B-\$13B contract for Air Force CSAR-X helicopters

The Air Force on Nov. 9 awarded Boeing Co. a \$10 billion-\$13 billion contract for slightly more than 141 combat, search and

rescue (CSAR-X) helicopters. . . .

### イラクの作戦の監督が Shelton 議員と Levin 議員の最優先項目

#### Oversight of Iraq operations top priority for Skelton, Levin

Rep. Ike Skelton (D-Mo.), in line to head the House Armed Services Committee, has said he will make oversight of the

Pentagon and the Bush administration's military . . .

### NASA は MGS マーズ・グローバル・サーバイヤとのコンタクト回復を試行中

#### NASA trying to regain contact with Mars Global Surveyor

NASA and Lockheed Martin are trying to regain full communications with the Mars Global Surveyor (MGS) orbiter,

which appears to have entered a pre-programmed safe mode after

### 指向性エネルギー、UAV の使用は海軍の EW 電子戦の懸念に

#### Directed energy, UAV use lead Navy EW concerns

The Navy is focusing on how to use directed energy and

unmanned aerial vehicles for electronic warfare, according to

Bryan Fox of the Naval Surface Warfare Center. . . .

### ILS は Proton Breeze M で BADR-4 を打上げ

#### ILS launches BADR-4 on a Proton Breeze M

International Launch Services used a Russian Proton rocket to orbit a big direct-broadcast satellite for the Riyadh-based Arab

Satellite Communications Organization. . . .

### Alliant Tech 社が COTS 商業軌道輸送開発に加わる

#### Alliant Techsystems joins COTS development team

Alliant Techsystems (ATK) has joined the Rocketplane Kistler team developing the K-1 two-stage-to-orbit reusable launch

vehicle under NASA's Commercial Orbital Space Transportation (COTS) seed-money effort, which is . . . .

### ノースロップグラマンは Essex 社を\$580M で買収予定

#### Northrop Grumman to purchase Essex for \$580M

In its biggest deal since it bought TRW four years ago, Northrop Grumman announced it will purchase signals intelligence

company Essex Corp. for \$580 million (\$24 a . . . .

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2006 年 11 月 9 日 22:21 DAILY NEDO[2006/11/09]

「航空機分野技術戦略マップの改訂に関する調査」に係る委託先の公募

[http://www.nedo.go.jp/informations/koubo/181109\\_1/181109\\_1.html](http://www.nedo.go.jp/informations/koubo/181109_1/181109_1.html)

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2006 年 11 月 15 日 8:19 【CNET Japan 2006 年 11 月 15 日】

英国 OpenStreetMap プロジェクト、wiki ソフトで地図作りに挑戦

<http://japan.cnet.com/svc/nlt2?id=20314487>

世界スパコンランキング--AMD プロセッサ搭載システムが躍進

<http://japan.cnet.com/svc/nlt2?id=20314027>

中国、ウィキペディアの規制を解除--中国本土ユーザーの新規登録が殺到

<http://japan.cnet.com/svc/nlt2?id=20314347>

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2006 年 11 月 14 日 7:53 【CNET Japan 2006 年 11 月 14 日】

インテル、将来のチップの素材としてカーボンナノチューブに注目

<http://japan.cnet.com/svc/nlt2?id=20312368>

ホームネットワークインフラの本命--松下電器、PLC アダプタを発表

<http://japan.cnet.com/svc/nlt2?id=20313047>

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2006 年 11 月 13 日 7:39 【CNET Japan 2006 年 11 月 13 日】

四半期報告書が消える日? --大手会計企業、リアルタイム報告システムで協力

<http://japan.cnet.com/svc/nlt2?id=20310087>

マイコン少年たちよ、今度はロボットを組み立てよう

<http://japan.cnet.com/svc/nlt2?id=20311027>

2006年11月10日 11:35 【CNET Japan 2006年11月10日】

マイクロソフト、「Windows Vista」開発を完了

<http://japan.cnet.com/svc/nlt?id=20306807>

ソフトバンクの連結中間決算、144億円の黒字に一有利子負債は2兆491億円に

<http://japan.cnet.com/svc/nlt?id=20306647>

KDDI断トツ20万件、10月携帯純増数 MNPで圧倒

<http://japan.cnet.com/svc/nlt?id=20307067>

テキサス・インスツルメンツ、新興市場向け低価格ビデオ携帯電話チップ開発へ

<http://japan.cnet.com/svc/nlt?id=20307647>

YOZAN、WiMAX用基地局を4.95GHz帯と2.5GHz帯のデュアル化へ

<http://japan.cnet.com/svc/nlt?id=20307407>

デジタル一眼2倍の売れ行き、前年並みのデジタル家電をカメラがけん引

<http://japan.cnet.com/svc/nlt?id=20307127>

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

**ロラルは ILS から\$18M を、ボーイングから\$14M を得る**

**Loral Gets \$18 Million from ILS, \$14 Million From Boeing**

PARIS — International Launch Services (ILS) has paid Space Systems/Loral \$18 million in cash, settling the two companies' four-year-old dispute regarding refunds of deposits Loral made on launch contracts it later canceled. Loral Space and Communications announced Nov. 13 that it also has received a

\$14.9 million payment from Boeing following Boeing's early cancellation of a lease of a Loral satellite providing service for Boeing's Connexion broadband service to commercial airline passengers. Boeing is ending the service at the end of this year.

**GCC イメージング衛星プロジェクトは輸出規制をテストする**

**GCC Imaging Satellite Project Tests Export Limits**

PARIS — The Gulf Cooperation Council (GCC) has selected two finalists — one U.S.-Canadian, the other French-Italian — for a two-satellite military Earth observation system whose technical specifications will test the limits of what Western nations are

willing to export, U.S. and European industry officials said. The winner will take home a contract roughly estimated at about \$700 million.

**ISRO インド宇宙庁は有人宇宙飛行計画の政府承認を求め**

**India's Space Agency Seeks Government Approval of Manned Spaceflight Program**

The Indian Space Research Agency (ISRO) has proposed starting a human spaceflight program, with the first manned flight taking

place by 2014 leading up to landing an Indian national on the Moon by 2020, ahead of China.

**ボーイングは WGS 衛星4号機をふんだくる**

**Boeing Nabs Contract for Fourth WGS Satellite**

WASHINGTON — Boeing Integrated Defense Systems of St. Louis will build the fourth Wideband Gapfiller Satellite (WGS) for

the U.S. Air Force under a contract option valued at \$299.8 million, the company announced in a press release Nov. 9.

**プロトンは Arabsat の衛星打上げ成功**



### Proton Successfully Launches Satellite for Arabsat

TOULOUSE, France — The Satellite-fleet operator Arabsat satellite-fleet operator took another step toward a return to operational health on Nov. 9 with the successful launch of its

Arabsat 4B/Badr-4 satellite by an International Launch Services (ILS) Proton Breeze M rocket from Russia's Baikonur Cosmodrome in Kazakhstan., ILS and Arabsat announced.

### 下院軍事委員会の委員長予定の Skelton 民主党議員は宇宙兵器への判断を保留

#### Skelton Withholding Judgement on Space Weapons

BOSTON — The presumptive Democratic chairman of the House Armed Services Committee says he will hold hearings on

space-based weapons and missile interceptors before taking a position on the controversial issue.

### アリアン 5 が TerreStar 1 の打上げに選定された

#### Ariane 5 Chosen To Launch TerreStar 1

WASHINGTON — Arianespace will launch the large TerreStar 1 mobile broadband satellite as early as next fall aboard a

dedicated Ariane 5 rocket, the Every, France-based launch-services provider announced Nov. 8.

### ATK(=Alliant Tech)社が RpK 社のロケット製造のチームに参加

#### ATK Joins Team Building Rocketplane Kistler's K-1 Rocket

WASHINGTON — Alliant Tech Systems (ATK) announced Nov. 8 that it had joined Rocketplane Kistler's efforts to field a space

station resupply vehicle.

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Week of November 13, 2006    **Sat News**    <http://www.satnews.com/>

### ボーイングは米空軍の WGS 衛星4号機を製造予定

...        **Boeing to Build Fourth U.S. Air Force Wideband Gapfiller Satellite**

### ILS プロトンは Arabsat の BADR-4 衛星打上げ成功

...        **ILS Proton Successfully Launches Arabsat's BADR-4 Satellite**

### 宇宙への米国の軍事支出は今日\$22B 以上、2010 年までに\$28B に達する見込み

...        **U.S. Defense Spending on Space Worth More Than \$22-B Today, to Reach \$28-B by 2010**

### ロラルは WildBlue-1 ブロードバンド衛星を打上げ基地に納入

...        **Space Systems/Loral Delivers WildBlue-1 Broadband Satellite to Launch Base**

### TerreStar Networks は TerreStar-1 打上げにアリアンスペースを選定

...        **TerreStar Networks Chooses Arianespace to Launch TerreStar I**

### ボーイング Delta IV は最新の米空軍の環境気象衛星を打上げ

...        **Boeing Delta IV Launches Newest USAF Environmental Satellite**

### ICO は FCC 連邦通信委員会に衛星の製造と打上げの延長を依頼

...        **ICO Asks FCC to Extend Construction and Launch of Its Satellite**

**GVF 衛星サミットは危機管理者へ災害復興対話を提供**

… [GVF Satellite Summit Provides Disaster Recovery Dialogue for Emergency Managers](#)

**ボーイングは Lianne Stein をボーイング独の社長に任命**

… [Boeing Appoints Lianne Stein as President of Boeing Germany](#)

**DirecTV は社内の宣伝販売チームをつくる**

… [DirecTV Creates In-House Advertising Sales Team](#)

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[Lockheed Martin Press Releases](#) <http://www.lockheedmartin.com/wms/findPage.do?dsp=frec&ti=111>

**ロッキードマーチンは GPS III のシステム要求事項の審査を無事完了**

**November 16, 2006 Lockheed Martin Successfully Completes System Requirements Review For GPS III**

<http://www.lockheedmartin.com/wms/findPage.do?dsp=fec&ci=18032&rsbci=0&fti=111&ti=0&sc=400>

**KAI 韓国航空工業とロッキードマーチンは戦略的関係の合意書にサイン**

**November 16, 2006 KAI and Lockheed Martin Sign Strategic Relationship Agreement**

<http://www.lockheedmartin.com/wms/findPage.do?dsp=fec&ci=18033&rsbci=0&fti=111&ti=0&sc=400>

**ロッキードマーチンのアトラス・プログラムは Aviation Week2006 の優秀賞に選ばれた**

**November 15, 2006 Lockheed Martin's Atlas Program Selected For Aviation Week 2006 Program Excellence Award**

<http://www.lockheedmartin.com/wms/findPage.do?dsp=fec&ci=18029&rsbci=0&fti=111&ti=0&sc=400>

**オランダが F-35 プログラムの次フェイズの最初の調印**

**November 15, 2006 NETHERLANDS IS FIRST TO SIGN ON FOR NEXT PHASE OF F-35 PROGRAM**

<http://www.lockheedmartin.com/wms/findPage.do?dsp=fec&ci=18031&rsbci=0&fti=111&ti=0&sc=400>

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[Boeing News Releases](#) <http://www.boeing.com/news/releases/index.html>

**ボーイングの A160 ハミング・バード無人機のテスト・プログラムが進捗**

**Nov. 16, 2006 Test Flight Program Advances for Boeing A160 Hummingbird Unmanned Aircraft**

[http://www.boeing.com/news/releases/2006/q4/061116b\\_nr.html](http://www.boeing.com/news/releases/2006/q4/061116b_nr.html)

**ボーイングの ScanEagle 無人機は主要なフライト・マイルストーンを達成**

**Nov. 15, 2006 Boeing ScanEagle Achieves Major Flight Milestones**

[http://www.boeing.com/news/releases/2006/q4/061115b\\_nr.html](http://www.boeing.com/news/releases/2006/q4/061115b_nr.html)

**ボーイングは日本の AWACS 編隊のレーダ能力向上契約を行う**

**Nov. 15, 2006 Boeing Awarded Contract to Upgrade Radar on Japan's AWACS Fleet**

[http://www.boeing.com/news/releases/2006/q4/061115a\\_nr.html](http://www.boeing.com/news/releases/2006/q4/061115a_nr.html)

11/16/2006 # 360 **France in Space** <http://www.france-science.org/home/page.asp?target=nfo-let&PUBLID=9&LNG=us>

**ESA のジュールベルヌ ATV は開発の重要な段階を通過**

**- 1: ESA'S JULES VERNE ATV PASSES CRUCIAL STEP IN DEVELOPMENT**

**アルカテル・アレニア・スペースはスウェーデンの PRISMA プログラムに参画予定**

**- 2: ALCATEL ALENIA SPACE TO TAKE PART IN SWEDISH PRISMA PROGRAM**

**アリアンスペースは TerreStar 1 の打上げの契約を得る**

**- 3: ARIANESPACE ATTRIBUTED CONTRACT FOR TERRESTAR 1 LAUNCH**

**Venus Express は宇宙での 1 年と心躍る褒美を祝う**

**- 4: VENUS EXPRESS CELEBRATES ONE YEAR IN SPACE & EXCITING AWARD**

**Eutelsat は 2006 - 2007 の第 1 四半期の売上げを報告**

**- 5: EUTELSAT REPORTS FIRST QUARTER REVENUES FOR 2006 - 2007**

**要 約**

**- 6: IN BRIEF**

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**- 1: ESA のジュールベルヌ ATV は開発の重要な段階を通過**

**- 1: ESA'S JULES VERNE ATV PASSES CRUCIAL STEP IN DEVELOPMENT**

ESA's Jules Verne Automated Transfer Vehicle (ATV) has passed a key milestone in its development; in tests carried out at the French Arms Procurement Agency's (DGA) 600-meter long research facility in Val de Reuil, France, the ATV proved that it could complete an automated rendezvous and docking with the ISS. Engineers replicated a rendezvous in real, life-size conditions using the ATV's flight sensors that fed measurements into the flight control computer. The ATV and its docking partner were programmed to move as they would in space. All systems worked perfectly from the start, at 250 meters away, to

the docking. The ATV has one final test to undergo, thermal vacuum testing, which will be carried out at ESA's ESTEC facility. ESA officials believe that the Jules Verne ATV could be sent to the European Spaceport in Kourou, French Guiana, as soon as the end of March 2007, for a possible launch between May and July. As large as a double-decker bus, the Astrium-built ATV will be able to carry 7.5 tons of cargo to the ISS, the equivalent of three times what the Russian vehicle Progress is currently able to transport. [Agence France Presse 11/10/06, ESA 09/27/06]

**- 2: アルカテル・アレニア・スペースはスウェーデンの PRISMA プログラムに参画予定**

**- 2: ALCATEL ALENIA SPACE TO TAKE PART IN SWEDISH PRISMA PROGRAM**

Alcatel Alenia Space announced October 26th, 2006, that it will develop and supply the S-Band Formation Flying Radio Frequency (FFRF) sensor as part of the PRISMA (Prototype Research Instruments and Space Mission technology Advancement) mission. The mission consists of two demonstrator spacecraft, one "main" vehicle that is highly maneuverable and the "target" vehicle which remains passive. Both satellites fly in the same orbit with the "main" satellite

moving towards and away from the smaller and lighter "target" satellite, which follows its initial trajectory. The goal of the PRISMA mission is to perform precision guidance, navigation and control demonstrations, as well as in-flight validation of sensor technologies for future space mission in which rendezvous and formation flying are a necessity. Alcatel Alenia's French and Spanish branches will design, manufacture, and test the FFRF sensor in the framework of the bilateral Earth science missions

agreement between CNES and the Spanish Space Agency (CDTI). The PRISMA mission is funded by the Swedish National Space Board (SNSB), with the Swedish Space Corporation (SSC) acting as prime contractor, and with the cooperation of CNES, DLR and

the Danish Technical University (DTU). The PRISMA satellites are scheduled for launch in 2009. [Alcatel 10/26/06, Air & Cosmos 11/11/06]

**- 3: アリアンスペースは TerreStar 1 の打上げの契約を得る**

**- 3: ARIANESPACE ATTRIBUTED CONTRACT FOR TERRESTAR 1 LAUNCH**

Terrestar Networks has selected Arianespace to launch its next satellite sometime between November 2007 and April 2008. The Terrestar 1 mobile communications satellite, the largest satellite of its kind (weighing some 6700 kilograms) will be launched aboard an Ariane 5 GS rocket as a solo passenger. The spacecraft will be launched by one of the three remaining Ariane 5 GS which Arianespace is phasing out in favor of the larger and more powerful Ariane 5 ECA, capable of launching two satellites

with a combined weight of 9000 kilograms. The new contract also includes options for launches of two additional Terrestar satellites. Terrestar 1, currently under construction by Space Systems/Loral, will inaugurate the company's S-band two-way communications service over North America; Terrestar is also negotiating with partners to expand its service to Europe. [Space News 11/13/06]

**- 4: Venus Express は宇宙での 1 年と心躍る褒美を祝う**

**- 4: VENUS EXPRESS CELEBRATES ONE YEAR IN SPACE & EXCITING AWARD**

In the same week that ESA's Venus Express spacecraft celebrated the first anniversary of its launch it also celebrated an award received from the editors of Popular Science magazine, naming the vehicle one of the top 100 technological innovations of the year. The award, announced in the December edition of the magazine, recognizes both the speed with which the mission was established and the unprecedented study it is making of Venus, Earth's closest neighbor. Since its launch on November 9th, 2005, Venus Express (built by Astrium France as prime

contractor) has not ceased to amaze both scientists and amateurs alike with its stunning images and wealth of data. The design of the Venus Express mission (similar to the Mars Express vehicle) and the speed with which it was completed have led many scientists and engineers to rethink how future space missions should be carried out. Popular Science magazine, founded in 1872, is the world's most widely read science and technology publication. [ESA 11/14/06, Spacedaily.com 11/10/06]

**- 5: Eutelsat は 2006 - 2007 の第 1 四半期の売上げを報告**

**- 5: EUTELSAT REPORTS FIRST QUARTER REVENUES FOR 2006 - 2007**

Eutelsat Communications, of Paris, published its first quarter 2006 - 2007 revenues this week which showed an increase in revenues of 6% over last year, for a total of 199.5 million euros. The increase reflects the robust growth in video applications which are up 10.7% following the deployment of HOT BIRD 7A

and ATLANTIC BIRD 4 satellites. Eutelsat's performance over the three month period leads the company to believe that they will achieve their revenue objective of over 800 million euros for the current fiscal year. [Eutelsat 11/08/06, Agence France Presse 11/05/06]

**- 6: 要約**

**- 6: IN BRIEF**

CNES' CoRoT (Convection, Rotation & planetary Transits) Space Telescope arrived today, November 15, 2006, at the Baikonur launch facility in Kazakhstan. The launch is presently

scheduled for December 21st, 2006, at 14h54 UT.

For more information and to follow the launch countdown, please visit: <http://smc.cnes.fr/COROT/> or <http://corot.oamp.fr/>

Arabsat's BADR-4, a Eurostar E2000+ satellite built by Astrium France, was successfully launched on November 9th, 2006, from Baikonur via a Proton Breeze M launcher from International Launch Services (ILS). [Spacedaily.com 11/02/06]  
Space Systems/Loral (SS/L) has delivered its WildBlue-1 all

Ka-band satellite to Kourou, French Guiana, where it underwent and successfully completed the "fit check" verification with its launcher interface hardware. The satellite is now ready for launch via Ariane 5 ECA on December 8th, 2006. [Spacedaily.com 11/10/06, Arianespace 11/14/06]

[AstroExpo.com](http://www.astroexpo.com/News/TopNews.asp) <http://www.astroexpo.com/News/TopNews.asp>

## Business News

## International Space News

## Launch News

## Program News

## Science and Exploration News

## Technology News

[JDW, Jane's Defence Weekly](http://jdw.janes.com/public/jdw/index.shtml) <http://jdw.janes.com/public/jdw/index.shtml>

### タレスは ISAF に衛星通信サービスを提供予定

**16-Nov-2006** [Thales to provide satcom service to ISAF](#)

Tim Waugh, programme manager, NATO Satcom and Deployable CIS, NATO C3 Agency, said at SMI's Global Milsatcom

conference in London from 13-15 November: "This is...

### 中国の UAV はレーダ信号の位置を決定する能力をもつ

**16-Nov-2006** [Chinese UAV has ability to locate radar signals](#)

A company official told Jane's that the UAV, displayed at the Zhuhai Air Show, is a newly developed prototype but would

provide no technical data...

### 米は Minuteman ミサイルの弾頭をアップグレード開始

**16-Nov-2006** [US commences warhead upgrade for Minuteman missiles](#)

The USAF deactivated the last of its LGM-118 Peacekeeper ICBMs in September 2005, leaving the Minuteman III as the US

military's sole land-based ICBM. Earlier...

### サウジアラビアは Link 16 の器材を受けとる予定

**15-Nov-2006** [Saudi Arabia to receive Link 16 equipment](#)

The kingdom is therefore "the first Arab country to receive Link 16", an official at Rockwell Collins told Jane's. DLS, a US joint

venture ...

2006年 11月 17日 時事通信社「世界週報」 11月 28日号 [目次抜粋]

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今週の軍事情報／外国の衛星監視を強める米空軍(江畑謙介)  
日本と世界の安全保障／危機に瀕する米国のソフトパワー(渡部恒雄)  
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[平山ニュース 2006 年 月 日] <http://www.wikihouse.com/space/>

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[NEWS]

11/14 与党が宇宙基本法案のプロジェクトチームを設置(朝,産)  
11/14 退役した YS-11 を研究のため JAXA に譲渡(JAXA,時,毎,読)  
11/13 毛利飛行士ら著名人 3 名が来年 1 月に南極訪問へ(毎,読,時)

[予定]

11/16 1917-1930GMT 打上:測位衛星 GPS 2R-16,Delta2,Cape Canaveral

[EVENT]

12/9 ISAS 宇宙学校・おきなわ,恩納村コミュニティセンタ, 小 4-中学生(親も可),申込先着 300 名  
12/4 申込締切:JAXA 産学官連携シンポジウム 2006「宇宙×イノベーション」, 12/7,大手町サンケイプラザ  
11/23 青木節子宇宙法研究会「進む宇宙利用と宇宙活動法」,三菱ビル,東京 申込><http://orf.sfc.keio.ac.jp/>  
11/19 コズミックカレッジ ファンダメンタル,福井県児童科学館  
11/18 コズミックカレッジ キッズ,立川市  
11/17 申込締切:ISAS 宇宙学校・あきた,11/25,由利本荘市岩城会館

[学会]

12/9-10 UNISEC ワークショップ 2006,東北大学  
12/8「海洋地球観測探査システム」フォーラム,東京大学,要申込  
11/20 平成 18 年度 宇宙開発品質保証シンポジウム,ベルサール神田  
11/18 申込締切:3rd International Conference on Recent Advances in Space Technologies(RAST 2007),6/14-16,Istanbul,Turkey  
11/17 JSASS 西部支部講演会(2006),九州大学(伊都)

[TV] ディスカバリーチャンネル他

11/20 1900-2048 TV 東京 感涙!時空タイムス 2 時間スペシャル 1969 年アポロ特集!  
11/20 0000-0054 BS-i (再)人類、月に立つ(9) 不屈のカムバック A.シエパードとアポロ 14 号  
11/18 1300-1500,11/19 0400-0600,1000-1200 ヒストリーチャンネル 月をめざして  
11/18 1900-1945 NHK-E サイエンス ZERO 太陽系の新常識  
11/18 2300-0000,11/19 1300-1400 ディスカバリーチャンネル 巨大建造:宇宙ステーション

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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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- 韓国航空宇宙産業、ロッキード・マーチンと協力強化(YONHAP NEWS) (16 日 17 時 14 分)  
- YS11 四分割し公開 東京の航空宇宙研究センターで(毎日新聞) (16 日 10 時 0 分)  
- YS11、最後のご奉公(時事通信) (15 日 17 時 3 分)  
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[米軍動向] [http://dailynews.yahoo.co.jp/fc/world/us\\_armed\\_forces/](http://dailynews.yahoo.co.jp/fc/world/us_armed_forces/)  
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- 両陣営、投票率に注目＝沖縄知事選、19 日に投開票(時事通信) (17 日 17 時 1 分)

- 函館空港に米軍戦闘機が緊急着陸、機体トラブルで(読売新聞) (17日 14時 11分)
- 函館空港に米軍機緊急着陸＝2機相次ぎ、1機から煙－北海道(時事通信) (17日 14時 1分)
- <緊急着陸>訓練中の戦闘機2機が函館空港に 1機から煙(毎日新聞) (17日 13時 32分)
- イラク南部でトラック襲撃、米国人ら14人拉致される(読売新聞) (17日 12時 49分)
- 米下院民主党、ホイヤー氏を院内総務に選出(ロイター) (17日 12時 34分)
- 県内移設の変更は無理 久間防衛庁長官(琉球新報) (17日 11時 19分)
- 米軍属の実刑確定へ＝民家侵入、女性に暴行－最高裁(時事通信) (17日 11時 1分)
- <米民主党>下院議長にペロシ院内総務を選出 女性初(毎日新聞) (17日 10時 42分)
- 国内外で二重基準 海軍機移転米住民拒否(琉球新報) (17日 10時 41分)
- 大票田で総力戦 県知事選、投票まで2日(琉球新報) (17日 9時 53分)
- <久間防衛庁長官>核搭載米艦船の領海通過認める？発言(毎日新聞) (17日 0時 16分)
- <米軍事裁判>イラク民間人殺害で海兵隊員に禁固18月判決(毎日新聞) (16日 22時 15分)
- 放射性物質使用に抗議 市民団体緊急集会(琉球新報) (16日 16時 17分)
- 米中央軍司令官、民主党のイラク段階的撤退論を拒否(読売新聞) (16日 11時 39分)
- <イラク政策>米司令官が早期の段階的撤退拒否を明言(毎日新聞) (16日 11時 20分)
- <イラク政策>国防総省などに見直しの一本化指示 米大統領(毎日新聞) (16日 10時 26分)
- 国防長官解任、再編影響せず 在日米司令官が見解(琉球新報) (16日 9時 48分)
- 放射性物質の使用に質問状 米軍機問題で宜野湾市(琉球新報) (16日 9時 47分)
- きょうから3日攻防 浮動票獲得に全力(琉球新報) (16日 9時 37分)
- 米中央軍司令官、段階的イラク撤退に反対＝政策見直し作業に影響も(時事通信) (16日 9時 0分)
- <イラク>米兵4人が死亡 2856人に(毎日新聞) (15日 23時 18分)

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

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- 調和あるアジアへ貢献＝「大家族の盟主」目指す－中国主席(時事通信) (17日 17時 1分)
- 「米国の制裁終われば、核兵器は不要」北朝鮮(YONHAP NEWS) (17日 11時 52分)
- 盧大統領が APEC で韓日米首脳会談、きょう出発(YONHAP NEWS) (17日 9時 11分)
- 金章洙陸軍参謀総長「南北間の戦力不均衡は確実」(YONHAP NEWS) (17日 9時 11分)
- 北支援再開は「拉致」進展が条件 日米外相会談(産経新聞) (17日 8時 1分)
- 北京五輪 南北統一チーム結成に向け、北が軟化 (産経新聞) (17日 8時 1分)
- 韓国、北人権決議賛成へ 国連総会 ぎりぎりの「対米配慮」(産経新聞) (17日 8時 0分)
- 北に「具体的行動」求める＝5カ国連携で圧力強化－日米外相(時事通信) (16日 23時 0分)
- <米大統領>最初の訪問地シンガポールで演説(毎日新聞) (16日 21時 17分)
- 北の核拡散の脅威強調＝制裁決議の履行で協力－米大統領(時事通信) (16日 21時 1分)
- <国際熱核融合実験炉>青森・六ヶ所村の関連建設地決まる(毎日新聞) (16日 20時 27分)
- <米訪朝団>米国と同等の立場で協議復帰の姿勢 講演で報告(毎日新聞) (16日 20時 23分)
- 北朝鮮、核開発放棄に明確な意思示す必要＝米國務長官(ロイター) (16日 20時 0分)
- 人権決議案への賛成、統一部「南北関係に影響ない」(YONHAP NEWS) (16日 19時 30分)
- 北朝鮮人権決議案、政府が賛成方針を明らかに(YONHAP NEWS) (16日 15時 55分)
- 北朝鮮人権決議案賛成の可能性示唆か、宋旻淳室長(YONHAP NEWS) (16日 15時 53分)
- 対北、具体的成果の重要性で一致＝歴史共同研究で合意－日中外相(時事通信) (16日 15時 1分)

- アジア大会での南北共同入場、北朝鮮が提案(YONHAP NEWS) (16日 13時 10分)
- 米バーンス次官、韓国に対北「追加措置」要請示唆(YONHAP NEWS) (16日 13時 6分)
- 6カ国協議の再開支持で一致＝北の核実験に「懸念」－APEC 外相会合(時事通信) (16日 13時 1分)
- 北朝鮮説得は困難＝「核実験成功」と自信－訪朝の米専門家(時事通信) (16日 13時 1分)
- 18日に日米韓首脳会談＝「6カ国」に向け連携確認へ(時事通信) (16日 11時 1分)
- 北を核保有国と認めず＝6カ国協議参加国が一致－米高官(時事通信) (16日 11時 1分)
- <北朝鮮政策>「制裁」と「交渉」両にらみで 米國務次官(毎日新聞) (16日 10時 40分)
- <プッシュ大統領>選挙後初の外遊 北朝鮮の核問題など協議(毎日新聞) (16日 10時 40分)
- 訪朝した専門家「中国、北朝鮮に石油供給中断せず」(YONHAP NEWS) (16日 10時 28分)
- 日米韓 6カ国協議の首席会談 北朝鮮核で共同声明を確認(毎日新聞) (16日 10時 0分)
- 北朝鮮、6カ国協議で強硬姿勢強める見通し＝訪朝した米専門家グループ(ロイター) (16日 9時 7分)
- 米民主党有力議員、北朝鮮問題で対話含む新アプローチを提案(ロイター) (16日 8時 5分)
- 横田めぐみさん拉致から29年 「世論の力で解決を」(産経新聞) (16日 8時 2分)
- エリザベス女王が施政方針演説(産経新聞) (16日 8時 1分)
- ベトナム外相と麻生外相が会談(産経新聞) (16日 8時 0分)
- 中国 北刺激回避へ奔走 核問題 きょう外相会合(産経新聞) (16日 8時 0分)
- イラン ウラン濃縮拡大 新たにプルトニウム検出 IAEAが報告書(産経新聞) (16日 8時 0分)
- <日米韓>6カ国協議の首席会談 北朝鮮核で共同声明を確認(毎日新聞) (15日 21時 58分)
- 「国民の誤解」を憂慮し参加拒否 - 朝鮮日報 (15日 18時 0分)
- 米「PSI不参加決定尊重するが…韓国、考えを変えてほしい」 - 中央日報 (15日 17時 49分)
- 来月前半再開へ中国と調整＝日米韓首席代表が一致－6カ国協議(時事通信) (15日 17時 0分)
- ヒル次官補「6カ国協議の議題は北朝鮮の非核化」(YONHAP NEWS) (15日 16時 3分)
- 「6カ国」の日米韓首席代表が会談(時事通信) (15日 14時 3分)

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**[ASAGUMO NEWS]** 朝雲新聞社 <http://www.asagumo-news.com/>  
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11/16 「コラム」更新

・朝雲寸言 /// ・沖繩知事選の行方 /// ・イラク政策の変更必至 /// 11/14 グラフ特集更新 /// 空自 総隊戦技競技会

11/13 「ニュース」更新

内閣府 イラク復興支援で世論調査 /// 国民の7割が評価

防医大の「あり方」検討 /// 22年度独法化へ 委員会初会合

旭川で省移行の説明会開催

北制裁問題 日米豪の一致確認 /// 米・國務次官来日 久間長官らと会談

防衛庁とクウェートを結びテレビ電話で輸空隊を激励

日米共同含め9日から海濱

18年度空自総隊総合訓練始まる

今年も「まんが防衛白書」 /// 防衛庁 広報に活用、市販本も

吉田空幕長に米勲功章授与

斎藤俊昭陸曹長に米陸軍から功労章

艦艇用燃料の補給46万klに /// インド洋後方支援

11/9 「コラム」更新



・朝雲寸言 /// ・どうなる郵政造反組 /// ・6カ国協議再開合意

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**[民間航空機関連 (ex-SJAC 三輪さん)]**

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2006年11月15日 1:40 AIA dailyLead November 14, 2006

**ボーイング テネシー州工場の労働組合と妥結**

**Boeing reaches agreement with Tennessee machinists**

Boeing on Sunday said it reached an agreement with striking machinists at its plant in Oak Ridge, Tenn. The machinists walked off the job on Aug. 6. Workers will vote on the contract, which includes an 11% pay increase over three years, on Nov. 27. The Seattle Times/Bloomberg (free registration) (11/13)

**エアバス A350XWB コスト節減のため外注額が増える**

**Airbus to outsource work on new jet**

Airbus says it will outsource \$3.5 billion in work on its new mid-sized jet, the A350XWB, according to media reports. The company hopes outsourcing lowers the cost of developing the plane. Reuters (11/14)

**KLM 737-800 オプション分6機を正式契約に切替**

**KLM converts six 737-800 options into orders**

KLM has converted six options for 737-800s into firm orders, Boeing said Monday. Boeing will deliver the planes, valued at \$423 million, before mid-2008. Air Transport World (11/14)

**A380 最終試験飛行に官当局者搭乗、12月中に型式証明をめざす**

**Regulators travel on A380 final test flights**

FAA and EU representatives are traveling on an Airbus A380 undergoing a final round of airworthiness test flights. The A380 is on track for certification in mid-December, a company spokeswoman says. MSNBC/Associated Press (11/13)

**割引航空会社AirAsia エアバス機を更に60機以上購入の計画**

**AirAsia will need to order more Airbus jetliners, CEO says**

Discounter AirAsia says it will need to order 60 more A320 jetliners from Airbus over the next year. "We're finding the A320 to be a phenomenally profitable aircraft," says CEO Tony Fernandes. The airline has already ordered 100 of the planes and has options for an additional 30. The Wall Street Journal (subscription required) (11/14)

**レポート: 宇宙ビジネスの成長が望まれる**

**Report: Space projects expected to grow**

Space projects accounted for almost \$180 billion in industry revenue and government budgets in 2005, a new publication by the Space Foundation found. The report predicts the satellite-radio market will grow from 12 million units installed in 2005 to 55 million units in 2010. The Denver Post (11/14)

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2006年11月14日 1:04 AIA dailyLead November 13, 2006

**ボーイング 防衛部門 ヘリコプターやロケット関係で好調**

### **Boeing's defense unit prospers with helicopters, likely rocket deal**

Boeing's defense business is bouncing back under the leadership of CEO James McNerney. Last week, the company landed a large contract to provide search-and-rescue helicopters for the Air Force. This week, the Air Force is expected to approve a joint venture between the company and Lockheed Martin to develop rockets, government and industry officials say. The Wall Street Journal (subscription required) (11/13)

### **ドバイの国営投資会社(DIC) EADSの株式取得を検討**

#### **Dubai firm to discuss possible stake with EADS**

State-owned investment agency Dubai International Capital may consider buying shares of EADS. DIC executives say they will hold talks with EADS and seven German firms to discuss setting up a fund worth up to \$15 billion with stakes in the world's biggest companies. Bloomberg/ClipSyndicate (11/13), The Washington Post/Reuters (free registration)

### **ICAO 民間パイロットの定年60歳から65歳へ**

#### **Aviation group changes standard on pilot retirement**

The International Civil Aviation Organization next week will change its standard on the retirement of commercial airline pilots. The new policy will allow pilots in all but four countries to continue flying until age 65. The U.S. will continue to require pilots to retire at age 60. USA TODAY (11/13)

### **A300のラダー部分の疑い再度検討**

#### **Questions linger about A300 rudders**

American Airlines, a group of pilots and other aviation observers say the NTSB did not fully consider evidence suggesting potential flaws with the rudders of the A300 that may have contributed to a fatal 2001 crash. Instead, the board attributed the crash of an American Airlines A300 in New York City mainly to pilot error. Last year, mechanics inspecting the rudder of a FedEx A300 found about three square feet of unsuspected and previously undetected damage to the composite structure. Fort Worth Star-Telegram (Texas) (free registration) (11/12)

### **ボーイング 747-8(大陸間航路)の重量軽減で複合材使用**

#### **Boeing may use composites to lighten 747-8 Intercontinental**

Boeing may use composites to reduce the weight of its 747-8 Intercontinental. The change would give the plane extra range Emirates requires for its Dubai-U.S. West Coast flight. Air Transport World (11/13)

### **デルタ航空 破産負債額は1億ドル**

#### **Delta's bankruptcy bills climb to nearly \$100M**

Lawyers and consultants working on Delta Air Lines' bankruptcy reorganization have requested an additional \$24.3 million to cover fees and expenses. So far, they have billed a total of nearly \$100 million, including the latest request. Delta hopes to exit bankruptcy by the middle of 2007. Chicago Tribune/Associated Press (free registration) (11/12)

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2006年11月11日 2:03 AIA dailyLead November 10, 2006

### **ボーイング 空軍から捜査・救助ヘリ契約(CH-47)受注**

#### **Boeing wins Air Force helicopter contract**

Boeing won a large contract to replace the Air Force's aging fleet of search-and-rescue helicopters. The \$15 billion contract includes

141 CH-47 production aircraft and five test aircraft. Boeing is already producing the CH-47 for the other services, so the Air Force saw less risk than buying an aircraft still in development, said Air Force Assistant Secretary for Acquisition Sue Payton. Bloomberg/ClipSyndicate (11/10), CNNmoney.com/Fortune (11/10)

### **A380 辛抱できる客にはお買い得商品となりうる**

#### **A380 could become a bargain for some carriers**

Patient airlines may eventually have the chance to purchase the Airbus A380 at bargain prices, industry analysts say. Airbus has pushed back the plane's delivery date three times because of production problems. "Airbus has to go to every customer hat in hand, get down on their knees and say, 'What can I do to make it right?'" says Edmund Greenslet, publisher of Airline Monitor, a trade publication. "One way to make it right is to make it cheaper." MSNBC (11/9)

### **ボーイング 2006年航空機受注額で 現時点でリード**

#### **Boeing leads in aircraft orders so far in 2006**

Boeing has booked orders for 793 airliners so far this year. It is ahead of Airbus, its European rival, which has won contracts for 508 airliners. Airbus has delivered 353 planes in the first 10 months of the year, compared with 330 for Boeing. Seattle Post-Intelligencer/Bloomberg (11/9)

### **アエロフロート航空 787発注時期のタイミングを失する**

#### **Russian carrier misses deadline for 787**

Russian airline Aeroflot has missed a deadline to buy Boeing's new 787 airliner. A minority shareholder of the airline says the deadline for buying the planes and taking delivery by 2010 was Nov. 1. The airline was also considering Airbus jets. The New York Times (free registration) (11/10)

### **デルタ航空 Q3 期 利益計上**

#### **Delta reports Q3 profit**

Delta Air lines reported a third-quarter profit of \$52 million, its first net profit since filing for bankruptcy protection in September 2005. The results included a one-time gain related to a decrease in a previously estimated bankruptcy claim. Executives also reiterated the airline plans to emerge from bankruptcy as a stand-alone carrier. The Philadelphia Inquirer/Associated Press (free registration) (11/10), CNNmoney.com/Reuters (11/10), Reuters (11/10), The Street.com (11/9)

### **AIA 主張:航空宇宙防衛工業において R&D 費税金優遇政策は必須**

#### **R&D tax-credit extension vital for aerospace and defense**

Congress must reinstate the research and development tax credit to help the aerospace and defense industries remain at the forefront of technical innovation and economic stability in the U.S. Read more in the Washington Pipeline.

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2006年11月15日 1:40 AIA dailyLead November 14, 2006

**自分の利益だけを考える人が多い。しかし、自己中心の人にビジネスチャンスが訪れる事はほとんどない。店主を喜ばせるだけの店に行く客はいない。**  
京セラ 創始者 稲盛和夫

**"Too many people think only of their own profit. But business opportunity seldom knocks on the door of self-centered people. No**

customer ever goes to a store merely to please the storekeeper.”

--Kazuo Inamori, founder of KYOCERA Corp.

2006年11月14日 1:04 AIA dailyLead November 13, 2006

**可能性の限界を見出すただ一つの方法は、不可能に至るまで可能性を極める事である。**

英国作家・発明者 アーサー・C. クラーク

“The only way of finding the limits of the possible is by going beyond them into the impossible.”

--Arthur C. Clarke, British author and inventor

2006年11月11日 2:03 AIA dailyLead November 10, 2006

**誰も、他の人のいうことを本気に聴いていない。その証拠に、しばらくでもあなた自身がそうしてみようと努力したら、すぐわかる。**

ジャーナリスト作家 ミニョン マクローリン

“No one really listens to anyone else, and if you try it for a while you'll see why.”

--Mignon McLaughlin, journalist and author

**【新刊紹介】 「日本人のちから」 2006.11 月刊 政策研究誌 東京財団**

目次

巻頭言 大きな実行力と小さな実行力を /// 日下 公人  
世界に先んじて「見えないシンクタンク」を生み出そう /// 米本 昌平  
アメリカの力、日本の戦略 /// 阿川 尚之  
日米同盟の変革で日本の実行力が試される /// 川上 高司  
わが国に対する不法行為を如何にして阻止するか /// 鈴木 敏且  
公務員の行動原理の転換を /// 福井 秀夫  
地方分権の実行力と推進力 /// 岡本 全勝  
「小国寡民」型国家への政策構想のすすめ /// 安達 誠司  
日中関係の構築を見誤るな /// 福井 義高  
日本企業の実行力 /// 畠山 芳雄  
沖縄人(うちなんちゅ)のアイデンティティと中国の影響力 /// 宮城能彦  
尖閣で試される日本の実行力 /// 照屋 健吉

拉致被害者救出作戦の準備が急務 /// 平田 隆太郎  
インドから見た安倍新政権 /// 森尻 純夫  
武装するアフガニスタンの行方(上) /// 菅原 出  
ロシアの対中央アジア戦略と日ロ関係(上) /// 畔蒜 泰助  
世界のブロック化と日本の選択 /// 佐々木 良昭



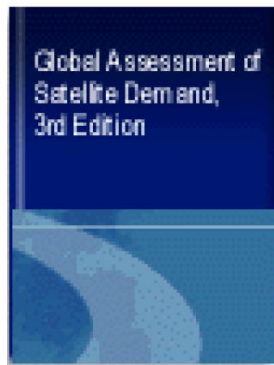
**【新刊紹介】 衛星需要予測 GLOBAL ASSESSMENT OF SATELLITE DEMAND 3RD EDITION** Publication Date: Nov. 2006

A DEMAND-DRIVEN, REGION-SPECIFIC ANALYSIS

OF THE COMMERCIAL GEOSTATIONARY SATELLITE TRANSPONDER MARKET FOR 2005 - 2011

Price: Complete Study (Total Market Summary and 12 Regions) - \$4,995

Tailored Study (Total Market Summary and 4 Regions of Choice) - \$3,295



**EXECUTIVE SUMMARY    COMMERCIAL SATELLITE MARKET OVERVIEW**

Over the course of 2005, NSR’s research indicated that demand for new commercial C- and Kuband capacity increase by about 4%. Some of the biggest gains for this year were noted in the DTH market, which grew by 14% and added more than 72 TPEs of leased capacity, and the video distribution segment that chalked up over 90 newly leased TPEs and a 7.2% rate of growth.

In the coming years, video services will continue to be strong performers driven by increasing carriage of SD and HD channels and feeds for all types of pay-TV services, free-to-air satellite TV, satellite distribution for terrestrial broadcasting, and a mix of contribution, occasional use, and SNG services.

In total, NSR believes that almost 7,600 new SD channels, another 800 plus HD channels, and in excess of 1,200 digital feeds will underlie the coming growth in commercial capacity demand. Combined C-band and Ku-band TPE demand for video distribution, DTH and video contribution & OUTV services will grow at the average annual rate of 4.5% and contribute a total of almost 815 additional TPEs of leased commercial capacity between 2005 and 2011.

Satellite broadband services will also make a substantial contribution to commercial satellite demand in the coming six years, estimated to be 144.5 TPEs of net new demand. Yet, within this market one finds that capacity demand for C-band satellite broadband services is shrinking on a global basis (CAGR -6.1%) while Ku-band capacity demand for broadband services will increase at the average year-on-year rate of 8.0%.

Also on the decline will be telephony & carrier services, contracting at the average annual rate of -2.8%. The industry is well aware of the decline of traditional point-to-point services due to competition with fiber and undersea cable, yet this market segment still accounted for roughly 18% of all leased C- band

Ku-band capacity in 2005.

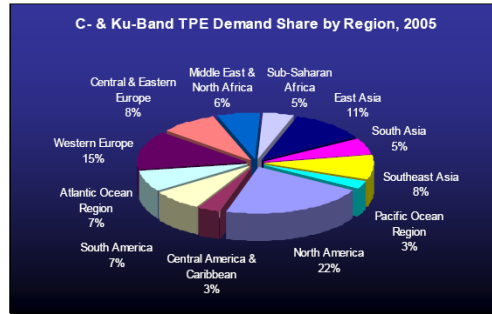
Within the other services segment, NSR includes mobile/transportable telecommunications, maritime services, Internet access for commercial airlines, and leasing from governmental agencies for bulk capacity (UAV, etc.). This segment has shown substantial growth in the last years, and NSR expects that continued demand from both civil agencies and militaries for a mix of applications will push capacity demand to increase at the cumulative annual rate of 4.9% with the sole caveat that the Connexion by Boeing service is taken over by another company. Otherwise, some short-term demand losses will be imminent for the other services segment. North America will manage the greatest net gain in C- and Ku-band capacity demand between 2005 and 2011 with an average annual 3.2% rate of growth. NSR also projects that North America will generate most of the new demand for commercial Ka-band capacity, which will have

a cumulative annual growth rate on a global basis of 21.6%. North America will be followed by the South Asian market, which will see a C- and Ku-band capacity demand CAGR of 6.1%. In both cases, DTH services will be the prime contributor to capacity demand growth. Two other key regions showing strong growth in the coming years should include the Middle East & North Africa and Sub-Saharan Africa. Combined, these regions are forecasted to experience an average year-on-year C- and Ku-band capacity demand growth rate of 5.1%.

**REGIONS INVESTIGATED**

North America	Middle East & North Africa
Central America & Caribbean	Sub-Saharan Africa
South America	East Asia
Atlantic Ocean Region	South Asia
Western Europe	Southeast Asia
Central & Eastern Europe	Pacific Ocean Region

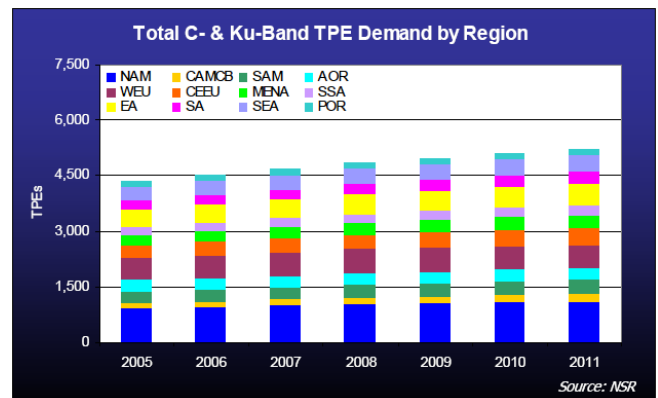
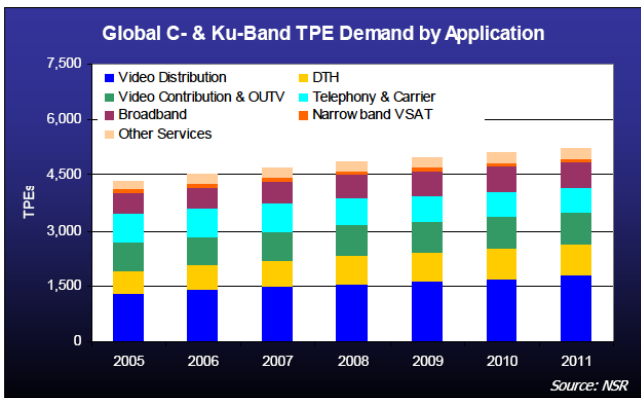
## Assessment of Satellite Transponder Demand in Central & Eastern Europe



Moving to industry revenues, the lease of commercial C- and Ku-band capacity generated nearly US\$6.7 billion in 2005 and is forecast to jump to US\$8.4 billion in 2011, which is a US\$1.7 billion increase in annual revenues in the coming six years. C- and Ku-band video distribution services accounted for 32% of the global revenues and are projected to continue to contribute more than one-third of the global commercial satellite industry's

revenues through 2011. Both DTH and video contribution & OUTV services had an 18% share of the global revenues in 2005. Going forward, video contribution & OUTV revenue share will be flat because of analog to digital migration issues, while growing demand for capacity for DTH services will push this market to 22% of global revenues by 2011. On a regional basis, North America and Western Europe

**Global Baseline C- & Ku-Band TPE Demand by Application, 2005-2011** /// **Total Baseline C- & Ku-Band TPE Demand by Region, 2005-2011**



account for the largest share of revenues obtained from the lease of commercial C- and Ku-band capacity. Combined, they will garner approximately 21% of the industry's revenues through 2011 and will see an average annual revenue growth rate of 3.9%. The Central America & the Caribbean region is forecasted to

have the fastest rate of revenue growth of any single region, largely due to the recent launch of the Satmex-6 satellite. Sub-Saharan Africa and South Asia, with their rapidly expanding commercial satellite markets, will generate the next fastest revenue growth rates.

**Global Revenues for Leased C- & Ku-Band TPEs by Application, 2005-2011** /// **Total Revenues for Leased C- & Ku-Band TPEs by Region, 2005-2011**

