



Spring 2009

10 Years of Operations



Sea Launch Commemorates Ten Years of Operations

Following a very successful 2008 that featured five flawless launches from the equator as well as the successful maiden flight of our new Land Launch service, Sea Launch celebrated ten years of operations, since its successful inaugural "DemoSat" launch on March 27, 1999.

"We're very proud of our team," noted Kjell Karlsen, president and general manager of Sea Launch. "We are taking this opportunity to look back and appreciate what we've accomplished, and to thank our customers - past, present and future - as we embark on the next ten years."

The inaugural launch in 1999, and the ten years that have followed, reflect the cooperative efforts of the world's most internationally integrated launch team, comprised of Boeing (U.S.), RSC Energia (Russia), SDO Yushnoye/PO Yuzhmash (Ukraine) and Aker ASA (Norway). This committed and experienced partnership demonstrates the tremendous feats that can be achieved through global cooperation, serving a global market.



Launch of SICRAL 1B,
April 20, 2009

Sea Launch Successfully Launches SICRAL 1B

Sea Launch successfully launched Telespazio's SICRAL 1B communications satellite from our equatorial launch site on April 29, 2009, marking our 30th mission from sea, since operations began in March 1999.

A Zenit-3SL vehicle lifted off at 1:16 am PDT (08:16 GMT) from the *Odyssey* Launch Platform, positioned at 154 degrees West Longitude. Less than two hours later, the Block DM-SL upper stage inserted the 3,038 kg (6,697 lb) SICRAL 1B satellite into a high perigee geosynchronous transfer orbit. Telespazio's operators at the Fucino Space Center in Italy acquired the spacecraft's first signals from orbit during flight operations and confirmed the health of the spacecraft shortly after its separation from the Block DM upper stage. Based on preliminary data, all Sea Launch system flight parameters were nominal and injection accuracy was excellent.

"Congratulations to Telespazio, Thales Alenia Space and to Italy's Ministry of Defense," said Kjell Karlsen, president and general manager of Sea

(SICRAL 1B continued)

Launch. "We are proud to be part of Italy's growing satellite program and we look forward to future opportunities to support its continued success."

Built by Thales Alenia Space, this dual-use Italsat 3000 spacecraft is designed to provide communications services for the Italian Ministry of Defense, NATO and allied nations. The SICRAL 1B payload includes one EHF/Ka band, three UHF-band transponders and five active SHF-band transponders. Designed for a 13-year lifespan as part of a new communications satellite system dedicated to national security, SICRAL 1B is now positioned in its final orbital location at 11.8 degrees East Longitude.



Sea Launch sponsored Italy's Air Press Awards (below) on February 18, held at Hadrian's Temple in Rome. Giuseppe Veredice, CEO, Telespazio, received the most distinguished of the awards.

"Telespazio would like to thank Sea Launch for the excellent work undertaken and for its professionalism and expertise, which made a perfect launch possible", said Giuseppe Veredice, CEO of Telespazio. "Thanks to the work of Sea Launch, the LEOP team at Fucino was able to acquire the satellite signal as planned and complete the early orbit phase according to schedule. SICRAL 1B is an extremely important mission for Telespazio. Having invested directly in the programme, the company can now benefit from some of the satellite's capacity, allowing it to offer communication services to NATO countries and to the European and US defence markets."

"The Italian Ministry of Defense has been very pleased with the performance of Sea Launch in support of SICRAL 1B," stated Lieutenant General Pietro Finocchio, director of the Telecommunications, Information Systems and Advanced Technologies Directorate (TELEDIFE). "Personally, I would like to thank the Sea Launch team for their professionalism and dedication in carrying out this important mission."

"This is our 30th mission from sea," noted Karlsen. "It's a milestone that reflects the sustained efforts of the world's most internationally integrated launch team and demonstrates the tremendous feats that can be accomplished through global cooperation, while serving a global market. Congratulations to the Sea Launch partners, contractors and the entire team on this significant milestone and for another launch flawlessly executed."



**Telstar 11N, Feb. 26, 2009
(Photo: Roscomos)**

Land Launch Delivers Telstar 11N to Orbit

Operations proceeded with our new Land Launch system in the First Quarter, at the Baikonur Space Center in Kazakhstan, in cooperation with Space International Services, based in Moscow. Using the Zenit-3SLB vehicle, a variant of the Zenit-3SL system, Land Launch provides launch services for medium-weight commercial satellites weighing up to 3600 kg. Land Launch is a consortium of the Sea Launch Company, LLC, based in Long Beach, Calif., and Space International Services, Ltd., based in Moscow, Russia.

On February 26, the Land Launch team successfully inserted Telesat's Telstar 11N communications satellite into a geosynchronous transfer orbit from the Zenit launch site at the Baikonur Space Center in Kazakhstan. All systems performed as planned.

Space Systems/Loral built this 1300 series spacecraft for Telesat to provide state-of-the-art satellite capacity for a broad range of video and data applications that connect the continents of North America, Europe and Africa. Using 39 high-power Ku-band transponders and an Atlantic Ocean

(Telstar 11N continued)



Peter Stier (left) presents model of Zenit-3SLB to David Wendling, VP Telesat

beam, the satellite will support growing demand for mobile broadband in maritime and aeronautical markets, from its orbital location at 37.5 degrees West Longitude.

"Congratulations to Telesat and to Space Systems/Loral, and to the entire Land Launch team for achieving this success," said Kjell Karlsen. "This significant accomplishment represents the work of Space International Services, in Moscow, and its collaboration with the Sea Launch partnership."

"We thank Sea Launch and Space International Services (SIS), their Land Launch partner, for their dedication in providing a successful mission and we also thank Space Systems/Loral," said Telesat President and CEO Dan Goldberg. "This is Telesat's first time using the Zenit-3SLB vehicle at the Baikonur Space Center and we are obviously very pleased with the outcome today."

In March, Peter Stier (photo at left), Sea Launch's VP Marketing & Sales, presented a model of the Land Launch Zenit-3SLB vehicle to David Wendling, Vice President, Space & Network Engineering, for Telesat, following our successful launch of the Telstar 11N satellite.

Ukraine Ambassador visits Sea Launch



Sea Launch was honored to host His Excellency Oleh Shamshur, Ambassador of Ukraine to the United States, on December 16, 2008. Followed by introductions to Sea Launch leadership and a briefing about our operations, the visit included a tour of our facilities and a VIP Luncheon with Sea Launch executives aboard the *Sea Launch Commander*.

Websites

To learn more about Sea Launch and our partners, please visit the following websites:

Sea Launch Company
www.sea-launch.com

Aker ASA
www.akerasa.com

Boeing Company
www.boeing.com

RSC Energia
www.energia.ru

SDO Yuzhnoye
www.yuzhnoye.com

PO Yuzhmash
www.yuzhmash.com



Going Forward... by Land and by Sea

Launch of MEASAT-3a (formerly MEASAT-1R)

The Land Launch team is now preparing for the launch of the MEASAT-3a satellite (formerly MEASAT-1R) in June, from our Zenit launch site at the Baikonur Space Center in Kazakhstan. Built by Orbital Sciences for MEASAT Satellite Systems Sdn Bhd, of Malaysia, MEASAT-3a is designed to expand capacity and in-orbit redundancy for MEASAT's customers.

Orbital's Star 2 spacecraft carries 12 Ku-band and 12 C-band transponders and features three antennas to provide C-band fixed satellite services across the Asia Pacific, the Middle East, Africa, Europe and Australia as well as Ku-band direct-to-home television broadcasting to Malaysia and Indonesia. Following the launch, MEASAT-3a will be co-located with MEASAT-3 at 91.5 degrees East Longitude. It is designed for a 15-year service life on orbit and will generate approximately 3.6 kW of payload power.

Launch of Eutelsat's W7 satellite

This fall, Sea Launch plans to launch the W7 communications satellite for Eutelsat. W7 will feature up to 74 operational Ku-band channels, making use of the full spectrum of frequencies available in this band. A widebeam coverage over Eurasia will be particularly suited to TV feeds, public/corporate telephony and data services, while the Central Asian beam will be targeted at the oil and gas sector for voice and data services using DVB-RCS applications with 90/120cm antennas. Following launch, W7 will be positioned at 36° East Longitude.

The W satellites are a series of telecommunications, television and multimedia spacecraft providing flexible coverage and bandwidth options for consumer and business services in Europe, Asia and Africa. They provide increased power and broader coverage with respect to the previous generation of EUTELSAT II satellites, with the added flexibility of steerable beams. Eutelsat Communications, based in Paris, is the holding company of Eutelsat S.A., the leading European satellite operator and one of the three top operators in the world for the supply of fixed satellite services.

On The Road

June 16

Satellite Communications Forum,
CommunicAsia 2009
Singapore

September 7-10

World Satellite Business Week
Paris, France

September 29-Oct 1

APSCC 2009 Satellite
Conference & Exhibition
Kuala Lumpur, Malaysia

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