

A monthly round-up of space industry developments for the information of our clients and friends.

## Successful SpaceX Falcon 1 Launch

### Space Exploration Technologies

**Corporation** (SpaceX) announced on July 15 the successful launch of the **RazakSAT** satellite from the **U.S. Army Reagan** test site on Omelek Island (Kwajalein Atoll) in the Pacific Ocean on a **Falcon 1** launcher. The satellite, designed and built by **Astronautic Technology (M) Sdn Bhd** of Malaysia, a wholly owned subsidiary of the Ministry of Finance, is equipped with a medium sized, 2.5-meter panchromatic high-resolution aperture camera. RazakSAT was deployed into a 685 km near-equatorial low Earth orbit at a 9° inclination to provide imagery for land management, resource development, conservation, forestry and fish migration programs within Malaysia.

## July Launch Services Orders

**International Launch Services, Inc.** (ILS) announced on July 14 that it has signed an agreement with **SES** for the launch of **QuetzSat-1** on an ILS **Proton** launcher in 2011. The satellite is being built by **Space Systems/Loral** (SS/L) on behalf of **SES Satellite Leasing Limited** based on SS/L's **1300** bus. QuetzSat-1 will be equipped with 32 Ku-band transponders and located at the 77°WL orbital location to provide coverage over Mexico, North America and Central America. The satellite's payload is fully contracted to a subsidiary of **EchoStar Corporation** and will be used in part by **Dish Mexico**, an EchoStar joint venture, for Direct-to-Home (DTH) services in Mexico. ILS also announced on July 17 that it has been selected to launch the **Telstar 14R** satellite (see July Satellite Orders) for **Telesat** during the second half of 2011. On July 22, **Arianespace S.A.** announced that it was selected by **Avanti Communications Group plc** to launch its **HylasOne** communications satellite from **Kourou, French Guiana** in the first quarter of 2010 on a **Ariane 5 ECA** or **Soyuz** launcher. HylasOne is being built by the industrial consortium of **EADS Astrium** (payload) and the **Indian Space Research Organisation** (ISRO) using its proven **I-2K** platform. The satellite will be equipped with 8 high-power (62dBW) Ka-band and 2 frequency adjustable wideband Ku-band transponders providing DTH and two-way broadband data communications for home, small office, enterprise, government and media network applications across Europe.

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## July Satellite Orders

On July 16, **SS/L** announced its selection by **Telesat** to build the **Telstar 14R** satellite based on its **1300** platform. The satellite will be equipped with 46 Ku-band transponders (27 fixed and 19 switchable) and has a design life of 15 years. Telstar 14R will be located at the 63°WL orbital location to provide broadband and video services to customers in Brazil, the Continental United States (including the Gulf of Mexico), the Southern Cone of South America and the Andean region (including Central America and southern Caribbean). Also on July 16, the **Boeing Company** announced that it has been awarded a contract by **Intelsat, Ltd.** to manufacture four communications satellites based on Boeing's new scalable **702B** platform. The first of the four satellites, **IS-22**, is scheduled for launch in 2012, will operate at the 72°EL orbital location and will be equipped with 48 C-band and 24 Ku-band transponders and a ultra-high frequency government-hosted payload for the **Australian Defence Force**. The second satellite, **IS-21**, will be located at 58°WL and launched a few months after IS-22. Details regarding the two final satellites were not announced. On July 24, **ISRO** announced its plans to launch **GSAT-11**, its largest communications satellite to date, in mid-2011. The spacecraft will weigh approximately 4,500 kg and will be launched by ISRO's **GSLV-Mark III** launcher.

## TerreStar-1 Launched Successfully

On July 1, **Arianespace** successfully launched **TerreStar-1**, the largest commercial satellite ever deployed to orbit, on an **Ariane 5 ECA** launcher, for **TerreStar Networks Inc.** Weighing nearly 6,910 kg at launch, the **SS/L**-built satellite is designed to function with a terrestrial repeater network and provide S-band mobile voice, data and video services to support critical communication and business continuity services for government, emergency responder and enterprise customers.

## World Summit for Satellite Financing

As part of **Euroconsult's World Satellite Business Week**, the 2009 **World Summit for Satellite Financing** will be held at the Westin Hotel in Paris on Sept. 8-10. The conference will be followed by a Symposium on Earth Observation Business on Sept. 10. **Milbank** is proud to once again be an official partner for this highly-regarded industry event.