

# ASIAN SPOTLIGHT

THE LATEST NEWS AND PRODUCTS FROM ASIA

## RESEARCHERS INNOVATE USING LIDAR AND HYPER-SPECTRAL SCANNERS TO DOCUMENT AND HELP RESTORE BURN AREAS

Airborne Research Australia (ARA), under the scientific leadership of Dr. Jorg Hacker, is committed to providing the Australian government – as well as affected farmers and firefighters – with a publicly available collection of data from the areas around **Adelaide** and on **Kangaroo Island** destroyed by the forest fires of December 2019 and January 2020. The well-founded scientific data, which are recorded with a **RIEGL LMS-Q680i-S Airborne Laser Scanner** and continuously updated by repeated flights, provide information about the extent of the destruction. But they also show where and how nature is recovering from the catastrophe. This enables those responsible for restoring habitats and economic zones to make their decisions more easily and on a scientific basis. [www.riegl.com](http://www.riegl.com)



## FUGRO'S MAJOR UPGRADE TO LADS TECHNOLOGY IMPROVES HYDROGRAPHIC DATA COLLECTION IN AUSTRALIA AND PACIFIC REGION

The enhanced LADS HD+ technology was developed in Fugro's laser laboratory in Adelaide, Australia, and is a sophisticated hydrographic mapping system that accurately measures **water depth** over both the marine and coastal zone environments. The new advances to the system have doubled the **laser speed** and the **swath width** and improved the **object detection** of the system, greatly **increasing data collection efficiency** for nautical charting. The system builds upon the proven Australian-developed LADS technology and has been designed for safe, high-speed and cost-effective surveys of clean, shallow coastal areas in **depths up to 80 m**. ALB can be integrated with traditional hydrographic survey methods using acoustics, such as **multibeam echosounders (MBES)**, to support nautical charting and coastal zone management. [www.fugro.com](http://www.fugro.com)

## CHC NAVIGATION INTRODUCES THE I73 GNSS AND IBASE GNSS RECEIVERS

CHC Navigation (CHCNAV) announced the immediate availability of the i73 GNSS, a versatile pocket-sized IMU-RTK GNSS rover with an integrated inertial module and the iBase GNSS, a rugged base GNSS receiver. i73 GNSS offers superior **GNSS signal tracking** enabling surveys beyond the usual constraints. It features full 624-channel GNSS technology and connects seamlessly to **RTK GNSS networks** as well as to UHF GNSS station over its embedded UHF modem. The GNSS iBase is a fully integrated GNSS base station, specifically designed to meet 95% of surveyors' needs when working in **UHF GNSS base and rover mode**. The performance of the iBase UHF base station compared to a conventional external UHF radio modem is virtually identical. But its unique design eliminates the need for a heavy external battery, bulky cables, an external radio, and a radio antenna. Its 5-watt radio module provides operational GNSS RTK coverage up to 8 km. [www.chcnav.com](http://www.chcnav.com)



## JAPANESE CITY USING GIS ON IPADS FOR FIELD SURVEY

The City of Tamba in Hyogo prefecture, Japan, performs field survey work using a mobile GIS application designed for Apple iPad tablet computers. The application, called **Mobile Matilda**, is developed by Osaka based GIS solution specialist, **Tsukasa Consulting**, using the **TatukGIS Developer Kernel 11** (for Delphi edition) with the **Embarcadero FireMonkey** framework. The mobile application compliments desktop and web-based versions of the Matilda software

that are enabled with more features. Unlike web applications, Mobile Matilda can operate in a local (off-line) environment because **map layers and data** are read from the **iPad memory**. Users can update records in the field for later synchronization to the desktop or server via a secure Wi-Fi or GSM connection, when available. TatukGIS development tools enable efficient storage of even huge GIS datasets as SQLite database layers on iOS and Android devices. [www.tatukgis.com](http://www.tatukgis.com)

