CASE STUDY:
Satellite

OVERVIEW
AAM was commissioned by a South-Australian client to provide satellite imagery in the shortest possible timeframe. After considering all major satellite platforms, AAM realised that 50cm resolution GeoEye-1 imagery had recently been collected over the project area. The order was issued in late March. AAM provided all the required data by early April.

SITUATION
Exploration crews were preparing to mobilise to a major oil/gas project in South Australia in order to undertake seismic work. Base mapping was required to help quickly plan the location of seismic lines in areas away from environmentally sensitive areas.

Sample Project Imagery

ACTION
Discussions took place between the client and AAM to determine what suitable imagery could be supplied in the fastest possible timeframe. All major satellite platforms were considered. A search of archive satellite imagery revealed that 50cm resolution GeoEye-1 imagery had recently been collected over the project area.

RESULT
The imagery allowed seismic lines to be pre-planned in the office while the exploration crew mobilised to the site. Lines were located with confidence, knowing that the exploration crew would not encounter access problems once they arrived on site, or disturb potentially environmentally sensitive areas. The imagery was a critical planning tool for the life of the exploration campaign which lasted over 4 months.

Image deliverables over 875km² included:
- 50cm orthocorrected seamless mosaic
- 4 band GeoEye-1 imagery (11 bit, no colour balanced, in tiles)
- 3 band enhanced imagery (8 bit, colour balanced, transparent background)
- Data supplied in GDA94 MGA54
- Horizontal accuracy of -3m RMSE

Timing: Order issued: 23 March 2012;
Data Delivered: early April 2012