

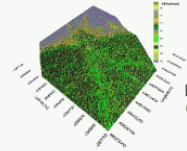
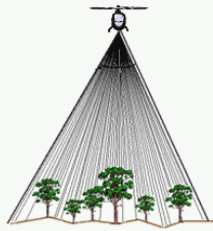


Photo from DGPS-station (left) and ALS-, INS- and RGB-camera equipment under the helicopter

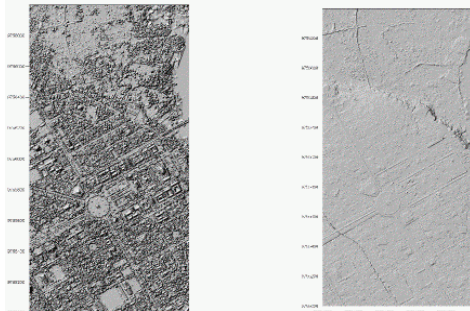
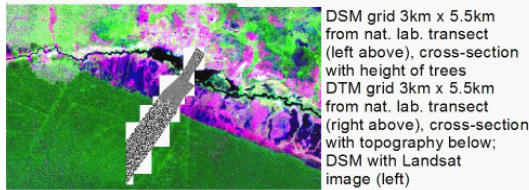
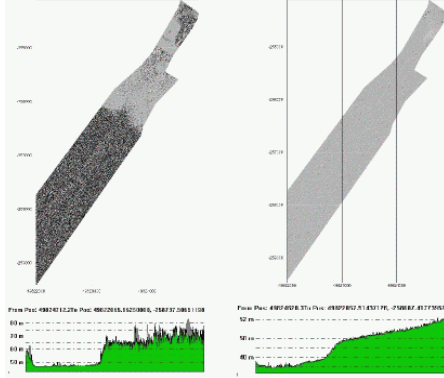


ALS-team in Rungan Sari: Juergen Frank, Detlef Klante, Suyud Pajjan, Noor Alamsyah, Viktor Boehm, Jan Giehler, Mustafa Syafrudin

# Airborne Laser Scanner

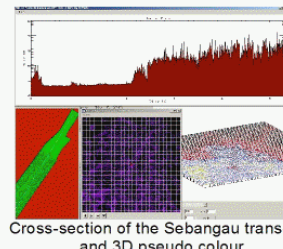


DSM of Nat. Laboratory Camp Side 1km x 1km in 3D pseudo colours

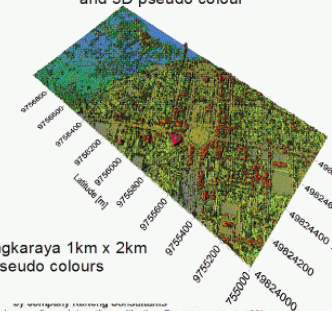


Palangkaraya 1km x 2km grid as Digital Surface Model (DSM)

Palangkaraya 1km x 2km grid as Digital Terrain Model (DTM)



Cross-section of the Sebau transact and 3D pseudo colour



DSM of Palangkaraya 1km x 2km in 3D pseudo colours

Kalteng Consultants has performed together with the German company Milan Geoservices GmbH many ALS-Helicopter Flight Trials in Central Kalimantan from 07 to 10<sup>th</sup> August 2007. The preparation of this high-technological flight campaign was not easy and took several months. Finally very things come together like a miracle, e.g. the availability of the ALS-equipment, the procedure of the custom, the availability of the helicopter with an excellent pilot, good weather conditions, to procure many recommendation letters and a marvellous team.

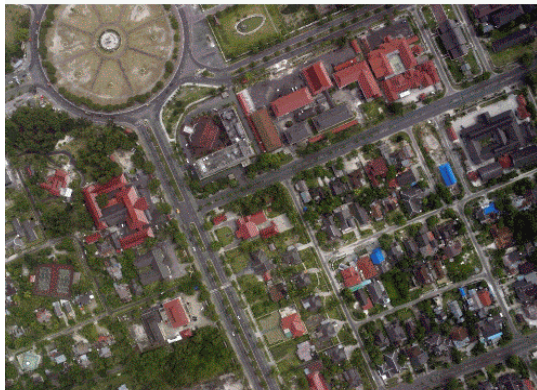
The purpose of these trials was to get high-resolution three-dimensional information from the peat-landscape in form of the topography, to measure the tree-height and the bio-mass, to get knowledge of the peat stores in that huge peatlands areas including of carbon storage, the shape of the river basin Kahayan and Rungan, to scan the Tangling mountains with Rungan Sari and the Orang Utan Katia Island and Sei Gohong, to scan the Rungan and Kahayan river up to the heart of Borneo with the mining area and Bapak's thumb Lakapoi, to scan the Small Scale Gold Mining (SSGM) activities near the village Kasongan in the Kalteng district and finally to scan the province capital town Palangkaraya.

The ALS-data and ortho-photos will be processed and analysed now and published in the near future. Examples of ortho-photos are shown on this poster from the Kalteng Meeting Centre (KMC) in Rungan Sari and Rungan Sari itself with a resolution of 50 pixel per m<sup>2</sup>.

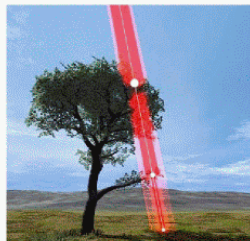
In the evening of the 10<sup>th</sup> August we held a thank you selamatan in Mustafa's anc Ultra's house.

I give thanks to all who have been contributed to these flight trials and I thank my great team.

Viktor Boehm



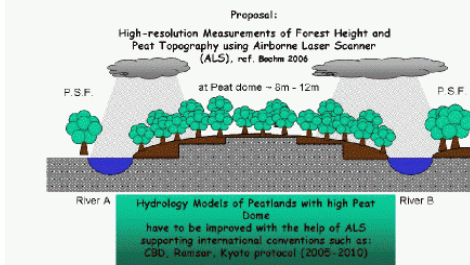
RGB-Ortho-Photo from Palangkaraya with the huge Round About



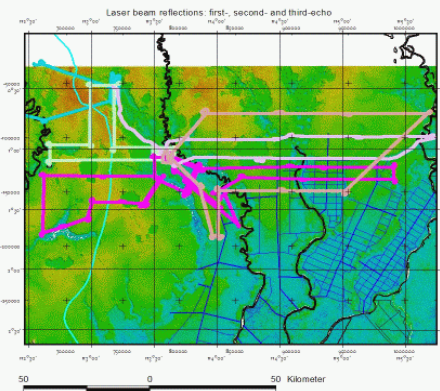
Laser beam reflections: first-, second- and third-echo



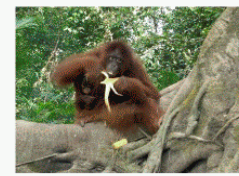
RGB-Ortho-Photo from Kahayan river with bridge in PKY



Peat Dome measurement with ALS-Equipments



GIS from Kalteng with 4 ALS-flight trials



Orang Utan on Kadja Island, Rungan



Helicopter with ALS and RGB-Camera in camp Baroi, Alam, Viktor and Jan