Landsat's International Partnerships

Since the launch of the first Landsat satellite 40 years ago, International Cooperators (ICs) have formed a key strategic alliance with the U.S. Geological Survey (USGS) to not only engage in Landsat data downlink services but also to enable a foundation for scientific and technical collaboration.

The map below shows the locations of all ground stations operated by the United States and IC ground station network for the direct downlink and distribution of Landsat 5 (L5) and Landsat 7 (L7) image data. The circles show the approximate area over which each station has the capability for direct reception of Landsat data. The red circles show the components of the L5 ground station network, the green circles show components of the L7 station network, and the dashed circles show stations with dual (L5 and L7) status. The yellow circles show L5 short-term ("campaign") stations that contribute to the USGS Landsat archive.

Ground stations in South Dakota and Australia currently serve as the primary data capture facilities for the USGS Landsat Ground Network (LGN). The Landsat Ground Station (LGS) is located at the USGS Earth Resources Observation and Science (EROS) Center in Sioux Falls, South Dakota. The Alice Springs (ASN) ground station is located at the Geoscience Australia facility in Alice Springs, Australia. These sites receive the image data, via X-band Radio Frequency (RF) link, and the spacecraft housekeeping data, via S-band RF link. LGS also provides tracking services and a command link to the spacecrafts.

Table 1. List of the International Cooperators collecting Landsat data (as of August 2011).

[Campaign stations are short-term stations that collect data and send it to the U.S. Geological Survey Landsat archive. --, not applicable]

International Cooperator (country)	International Cooperator (organization)	Ground station location	Ground station identification	Landsat 5	Landsat 7
Argentina	CONAE[1]	Córdoba, Argentina	COA	x	x
Australia	GA-NEO[1]	Alice Springs, Australia	ASA	x	x
		Hobart, Australia	HOA	x	x
Brazil	INPE[1]	Cuíaba, Brazil	CUB	x	--
Canada	CCRS[1]	Gatineau, Canada	GNC	x	Backup
		Prince Albert, Canada	PAC	x	Backup
China	CEODE[1]	Beijing, China	BJC	x	--
		KaShi, China	KHC	x	--
Europe	ESA[1]	Matera, Italy	MTI	x	--
		Kiruna, Sweden	KIS	Campaign	--
		Maspalomas, Spain	MPS	Campaign	--
Germany	DLR[1]	Neustrelitz, Germany	NSG	--	Inactive
Indonesia	LAPAN[1]	Parepare, Indonesia	DKI	--	Inactive
Italy	University of Rome	Malindi, Kenya	MLK	Campaign	--
Japan	RESTEC[1]	Hatoyama, Japan	HAJ	Inactive	--
Japan	HIT[1]	Hiroshima, Japan	HIJ	--	Inactive
Mexico	ERIS[1]	Chetumal, Mexico	CHM	Campaign	--
Russia	ScanEx[1]	Irkutsk, Russia	IKR	Campaign	--
		Magadan, Russia	MGR	Campaign	--
		Moscow, Russia	MOR	Campaign	--
South Africa	SANSA[1]	Hartebeesthoek	JSA	Campaign	x
Thailand	GISTDA[1]	Bangkok, Thailand	BKT	x	--

[1]Defined on page 2.

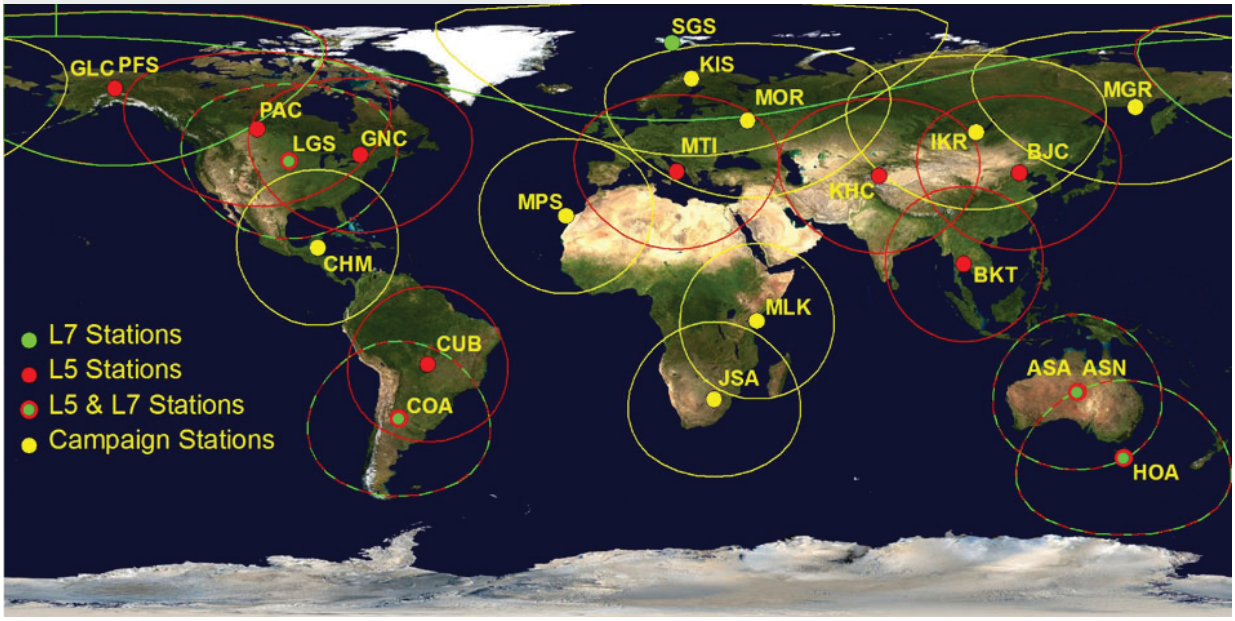

Figure 1. Active Landsat Ground Stations (LGS). See table 1 for explanation for ground station identification.

LANDSAT
INTERNATIONAL PARTNERSHIPS

Argentina
Comision Nacional de Actividades Espaciales (CONAE)
http://www.conae.gov.ar

Australia
Geoscience Australia – National Earth Observation (GA-NEO)
http://www.ga.gov.au

Brazil
Instituto Nacional de Pesquisas Espaciais (INPE)
http://www.dgi.inpe.br/siteDgi_EN/index_EN.php

Canada
Canada Centre for Remote Sensing (CCRS) of Natural Resources Canada (NRC)
http://ccrs.nrcan.gc.ca/index_e.php

China
Center for Earth Observation and Digital Earth (CEODE)
http://english.ceode.cas.cn/

Europe
European Space Agency (ESA)
http://www.esa.int

Germany
German Aerospace Center (DLR)
http://www.dlr.de/en/desktopdefault.aspx

Indonesia
National Institute of Aeronautics and Space (LAPAN)
http://www.lapanrs.com

Italy
Centro di Ricerca Progetto San Marco (CRPSM) Sapienza University of Rome
http://crpsm.psm.uniroma1.it

Japan
Japan Aerospace Exploration Agency (JAXA)
http://www.jaxa.jp/about/centers/eoc/index_e.html

Remote Sensing Technology Center of Japan (RESTEC)
http://www2.restec.or.jp/top_e.html

Advanced Global Environment Information Research Center at Hiroshima Institute of Technology (HIT)
http://suga.ges.it-hiroshima.ac.jp

Mexico
Estación de Recepción de Imágenes de Satélite (ERIS)
http://201.116.120.39/eris/eng/index.php

Russia
ScanEx Research and Development Center
www.scanex.com

South Africa
South African National Space Agency (SANSA)
http://www.sansa.org.za

Thailand
Geo-Informatics and Space Technology Development Agency (GISTDA)
http://www.gistda.or.th/