

MULTISPECTRAL DATA

DATA TYPE PARAMETERS AND CHARACTERISTICS

Sensor Technical Specifications
<http://landsat.gsfc.nasa.gov/about/etm.html>
 Sensor type: opto-mechanical
 Spatial Resolution: 30 m (60 m - thermal, 15-m pan)
 Spectral Range: 0.45 - 12.5 μm
 Number of Bands: 8
 Temporal Resolution: 16 days
 Image Size: 183 km X 170 km
 Swath: 183 km
 Programmable: yes
 Status: with problems (after 2003)

Band Number	Spectral range, μm	Spatial resolution
1	0.45-0.515	30 m
2	0.525-0.605	30 m
3	0.63-0.69	30 m
4	0.75-0.90	30 m
5	1.55-1.75	30 m
6 (H/L mode)	10.4-12.5	60 m
7	2.09-2.35	30 m
8	0.52-0.9	15 m

Most Landsat-7 ETM+ scenes are processed with the Standard Terrain Correction (Level 1T). Standard Terrain Correction provides systematic radiometric and geometric accuracy by incorporating ground control points while employing a Digital Elevation Model (DEM) for topographic accuracy.

Legend

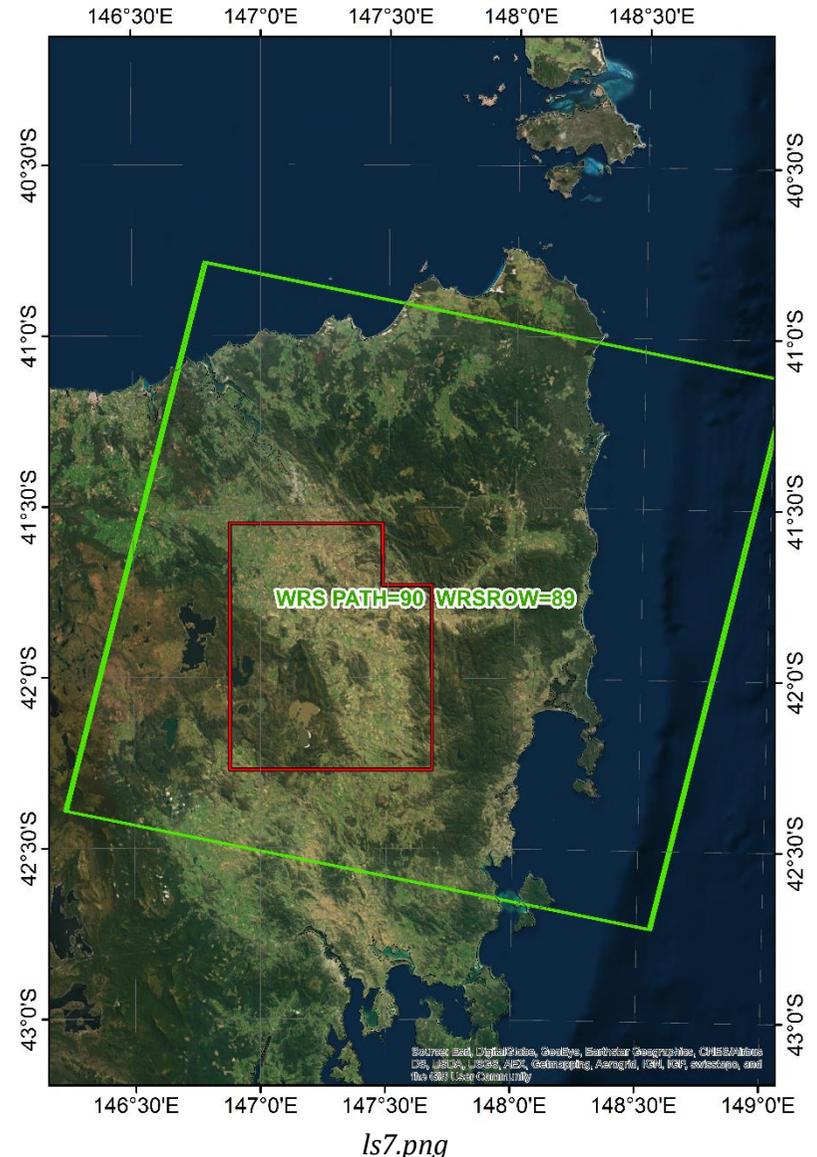
- EL-30 area
- Tasmania boundary

ID and Acquisition date

- LE70900892000097EDC00, 2000/04/06
- LE70900892001099ASA00, 2001/04/09

Landsat-7 (ETM+)

OVERVIEW



Sensor Technical Specifications

<http://landsat.gsfc.nasa.gov/?p=5081>

OLI sensor

Sensor type: push broom
 Spatial Resolution: 30 m (15-m pan)
 Spectral Range: 0.43 – 1.39 µm
 Number of Bands: 9
 Temporal Resolution: 16 days
 Image Size: 185 km X 180 km
 Swath: 185 km
 Programmable: yes

TIRS sensor

Sensor type: push broom
 Spatial Resolution: 100 m
 Spectral Range: 10.6 – 12.5 µm
 Number of Bands: 2
 Temporal Resolution: 16 days
 Image Size: 185 km X 180 km
 Swath: 185 km
 Programmable: yes

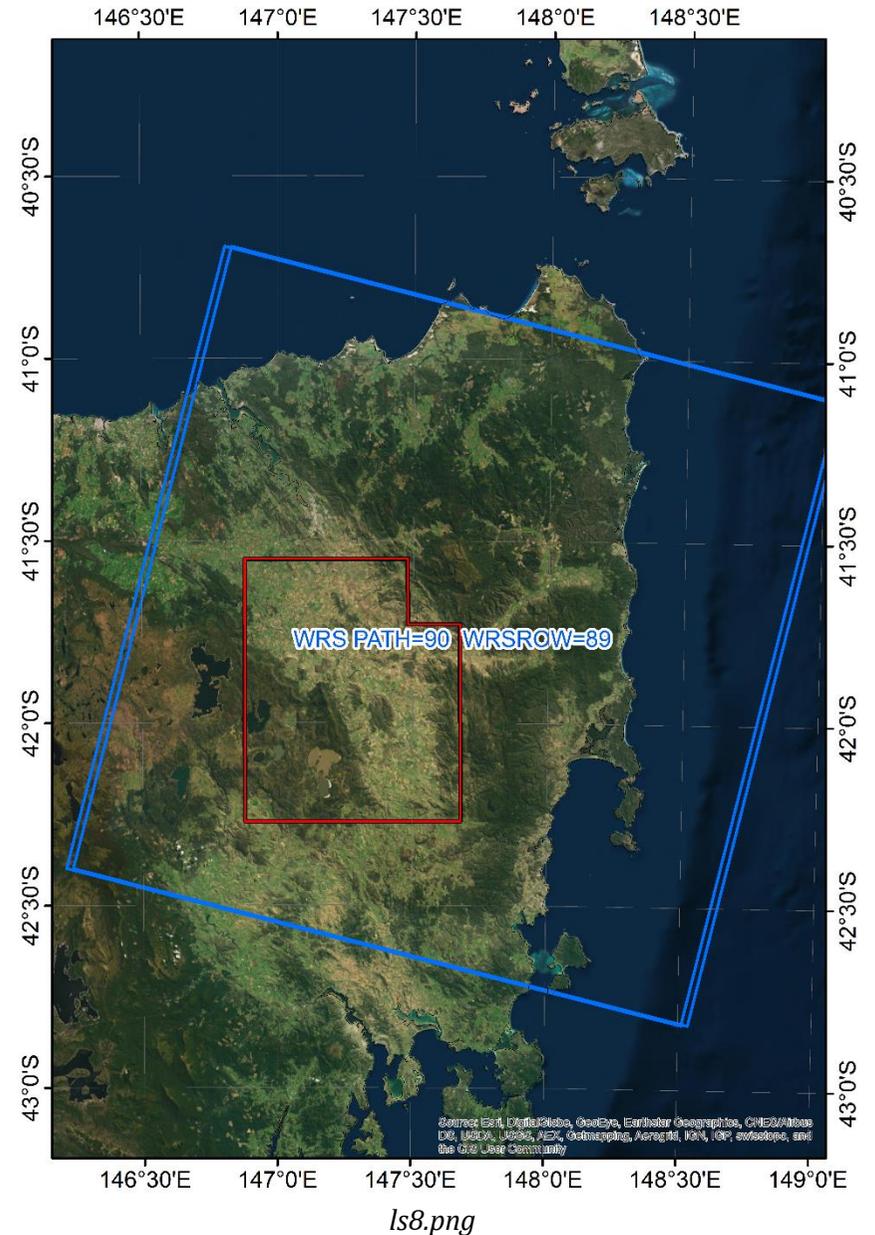
Band Number	Spectral range, µm	Spatial resolution, m
1	0.433-0.453	30
2	0.450-0.515	30
3	0.525-0.600	30
4	0.630-0.680	30
5	0.845-0.885	30
6	1.560-1.660	60
7	2.100-2.300	30
8	0.500-0.680	15
9	1.360-1.390	30
10	10.6-11.2	100
11	11.5-12.5	100

Legend

- EL-30 area
- Tasmania boundary

ID and Acquisition date

- LC80900892016357LGN02, 2016/12/22
- LC80900892016133LGN00, 2016/05/12
- LC80900892015290LGN00, 2015/10/17



Sensor Technical Specifications

<http://landsat.gsfc.nasa.gov/?p=3217>

Sensor type: opto-mechanical

Spatial Resolution: 30 m (120 m - thermal)

Spectral Range: 0.45 - 12.5 μm

Number of Bands: 7

Temporal Resolution: 16 days

Image Size: 185 km X 172 km

Swath: 185 km

Programmable: yes

Status: don't operates (after 2011)

Band Number	Spectral range, μm	Spatial resolution
1	0.45-0.52	30 m
2	0.52-0.60	30 m
3	0.63-0.69	30 m
4	0.76-0.90	30 m
5	1.55-1.75	30 m
6	10.4-12.5	120 m
7	2.08-2.35	30 m

Most Landsat-5 TM scenes were processed with the Standard Terrain Correction (Level 1T). Standard Terrain Correction provides systematic radiometric and geometric accuracy by incorporating ground control points while employing a Digital Elevation Model (DEM) for topographic accuracy.

Legend

 EL-30 area

 Tasmania boundary

ID and Acquisition date

 LT50900891988040ASA00, 1988/02/09

 LT50900891988056ASA00, 1988/02/25

 LT50900891989026ASA00, 1989/01/26

 LT50900891990061ASA00, 1990/03/02

 LT50900891991032ASA00, 1991/02/01

 LT50900891996062ASA00, 1996/03/02

 LT50900891996110ASA00, 1996/04/19

 LT50900891998035ASA00, 1998/02/04

 LT50900891998067ASA00, 1998/03/08

 LT50900891999166ASA00, 1999/06/15

 LT50900891999262ASA00, 1999/09/19

 LT50900892004100ASA01, 2004/04/09

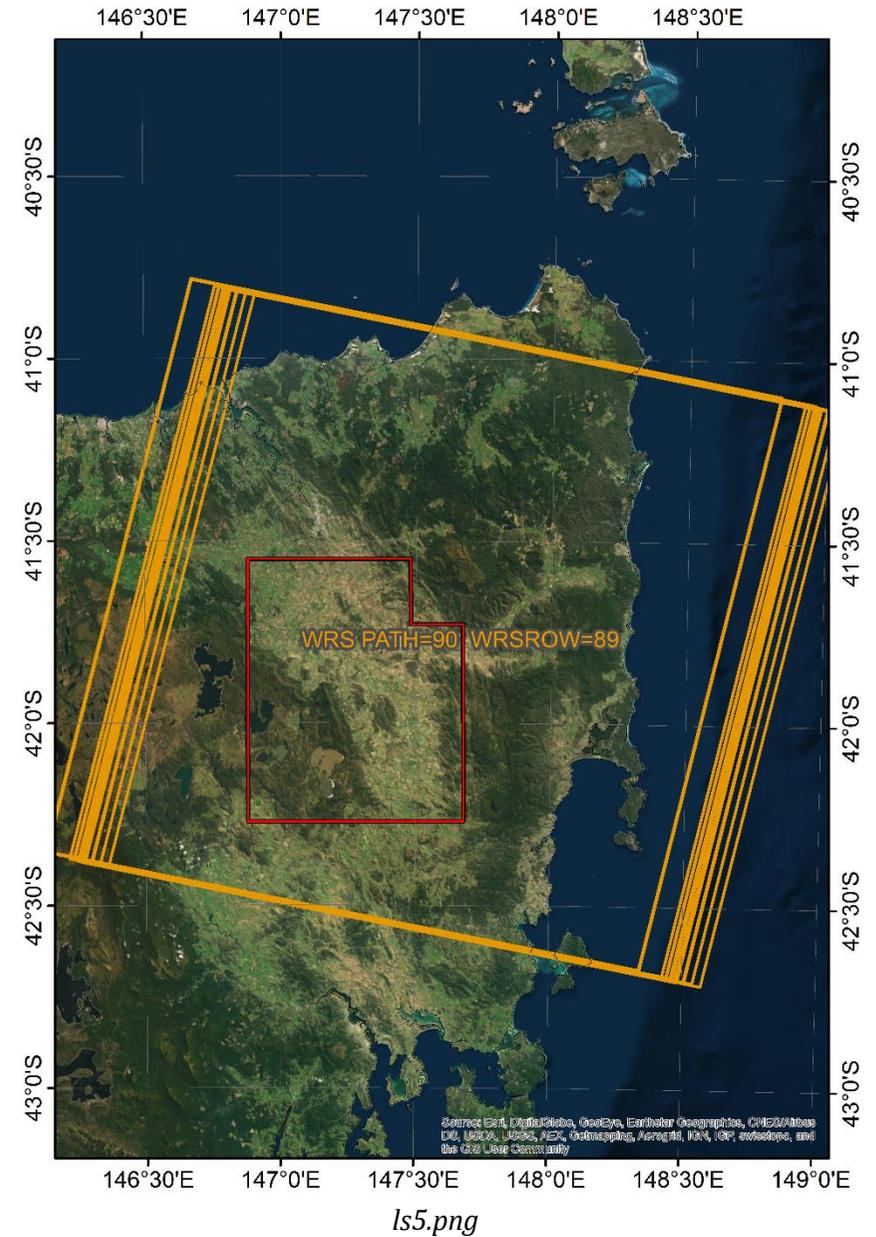
 LT50900892004228ASA00, 2004/08/15

 LT50900892004292ASA00, 2004/10/18

 LT50900892004340ASA00, 2004/12/05

 LT50900892005246ASA01, 2005/09/03

 LT50900892010292ASA00, 2010/10/19



TERRA (ASTER)

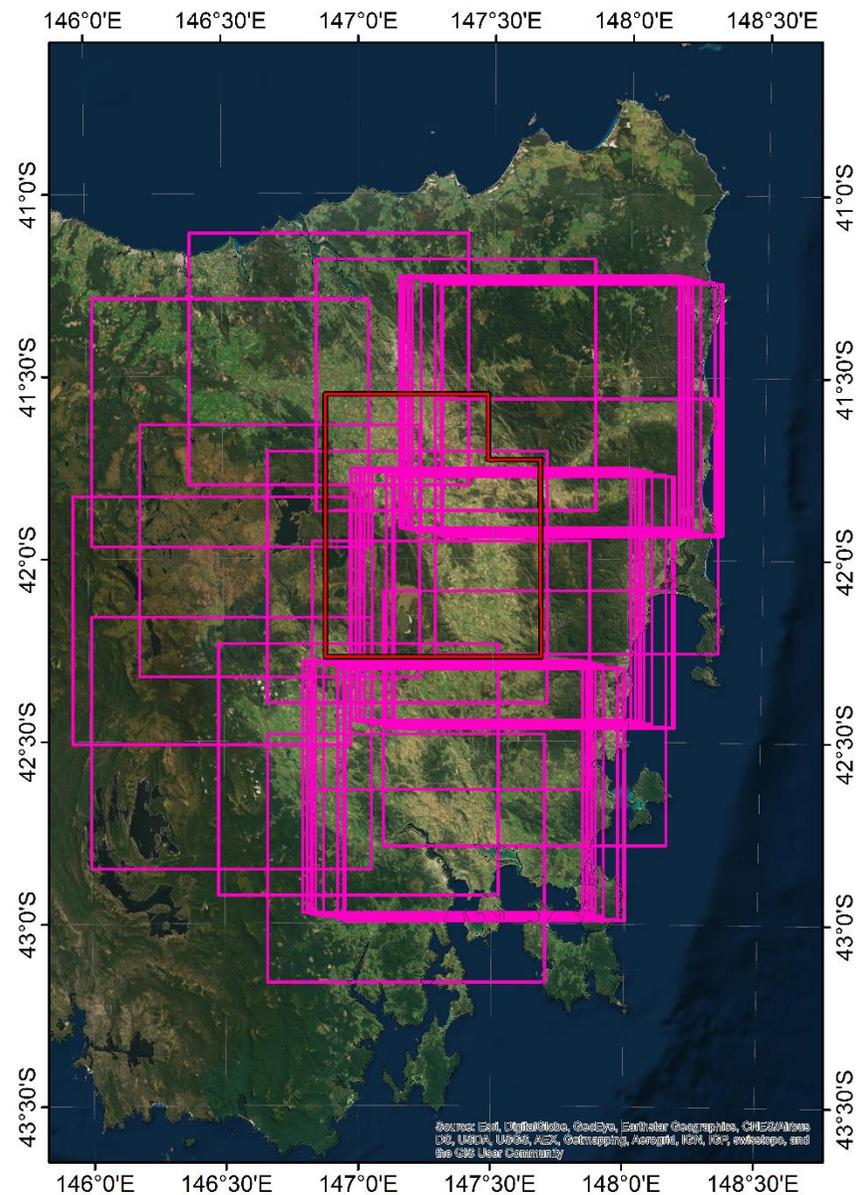
Sensor Technical Specifications

<http://asterweb.jpl.nasa.gov/>

	VNIR subsystem	SWIR subsystem		TIR subsystem																																				
Sensor type:	push broom																																							
Spatial Resolution:	15m	30m		90m																																				
Spectral Range:	0.52 – 0.86 μm	1.6 – 2.43 μm		8.125 – 11.65 μm																																				
Number of Bands:	<table border="1"> <thead> <tr> <th>Band Number</th> <th>Spectral range, μm</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.52-0.60</td> </tr> <tr> <td>2</td> <td>0.63-0.69</td> </tr> <tr> <td>3 (N)</td> <td>0.78-0.86</td> </tr> <tr> <td>4 (B)</td> <td>0.78-0.86</td> </tr> </tbody> </table>	Band Number	Spectral range, μm	1	0.52-0.60	2	0.63-0.69	3 (N)	0.78-0.86	4 (B)	0.78-0.86	<table border="1"> <thead> <tr> <th>Band Number</th> <th>Spectral range, μm</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>1.6-1.7</td> </tr> <tr> <td>6</td> <td>2.145-2.185</td> </tr> <tr> <td>7</td> <td>2.185-2.225</td> </tr> <tr> <td>8</td> <td>2.235-2.285</td> </tr> <tr> <td>9</td> <td>2.295-2.365</td> </tr> <tr> <td>10</td> <td>2.360-2.430</td> </tr> </tbody> </table>	Band Number	Spectral range, μm	5	1.6-1.7	6	2.145-2.185	7	2.185-2.225	8	2.235-2.285	9	2.295-2.365	10	2.360-2.430	<table border="1"> <thead> <tr> <th>Band Number</th> <th>Spectral range, μm</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>8.125-8.475</td> </tr> <tr> <td>12</td> <td>8.475-8.825</td> </tr> <tr> <td>13</td> <td>8.925-9.275</td> </tr> <tr> <td>14</td> <td>10.25-10.95</td> </tr> <tr> <td>15</td> <td>10.95-11.65</td> </tr> </tbody> </table>		Band Number	Spectral range, μm	11	8.125-8.475	12	8.475-8.825	13	8.925-9.275	14	10.25-10.95	15	10.95-11.65
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14	10.25-10.95																																							
15	10.95-11.65																																							
Temporal Resolution:	16 days																																							
Image Size:	60 km X 60 km																																							
Swath:	60 m																																							
Stereoscopic:	yes	no	no																																					

Legend

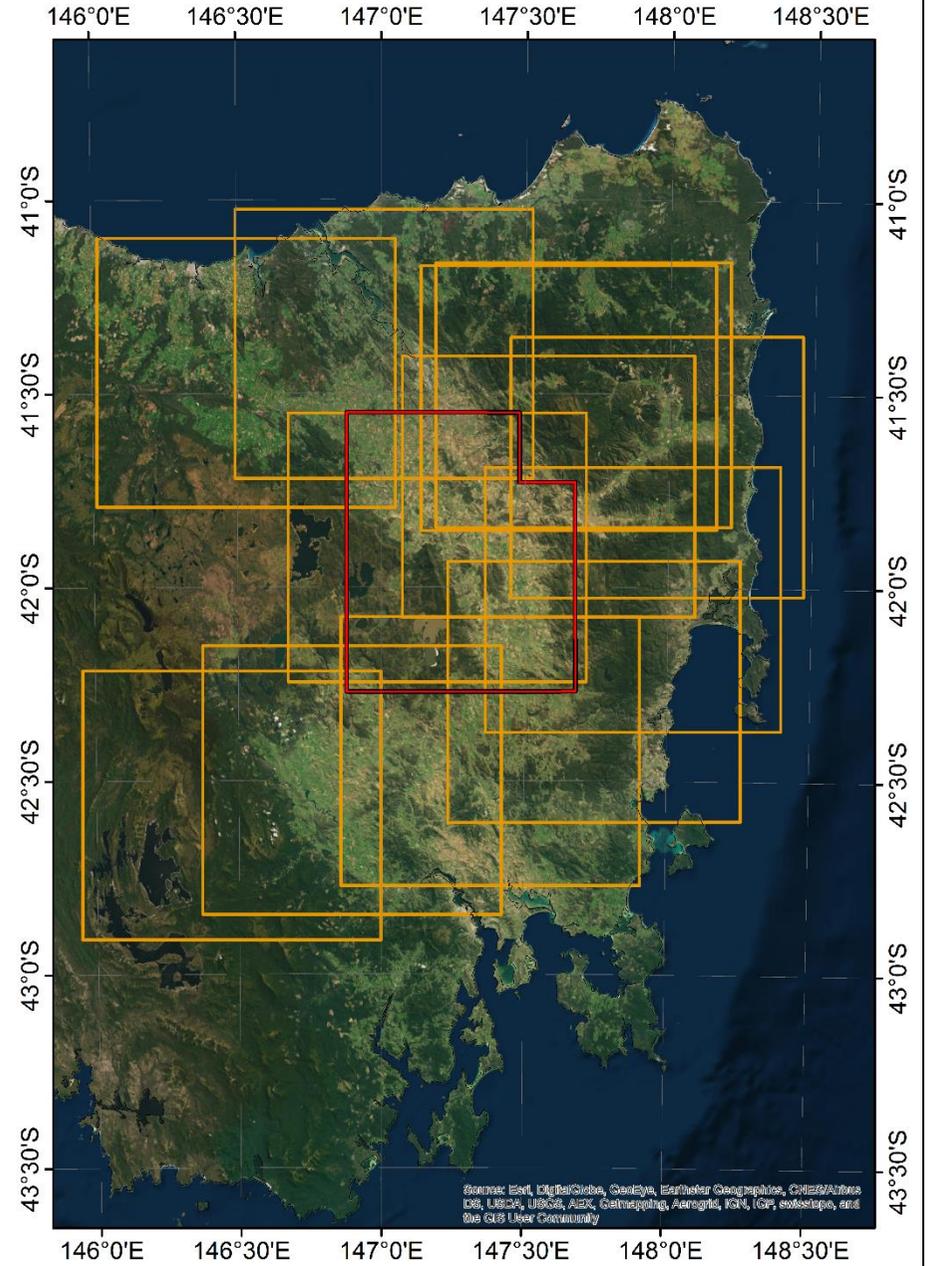
	EL-30 area		2161256244, 2007/03/26		2166863663, 2011/03/28
	Tasmania boundary		2161256287, 2007/03/26		2166896227, 2011/04/06
Terra Aster day imagery					
ID and Acquisition date					
	2156189249, 2004/02/05		2162260729, 2007/10/20		2166896229, 2011/04/06
	2157069093, 2004/08/17		2162260789, 2007/10/20		2166896321, 2011/04/06
	2157069123, 2004/08/17		2162260799, 2007/10/20		2167854349, 2012/02/04
	2157286239, 2004/09/25		2164225974, 2009/05/18		2167854354, 2012/02/04
	2157548909, 2004/11/12		2164226008, 2009/05/18		2167854434, 2012/02/04
	2157549177, 2004/11/12		2164226062, 2009/05/18		2169934877, 2013/09/02
	2157686478, 2004/12/30		2165780577, 2010/06/22		2169934948, 2013/09/02
	2157686496, 2004/12/30		2165780591, 2010/06/22		2169934954, 2013/09/02
	2157686508, 2004/12/30		2165780639, 2010/06/22		2171237392, 2014/07/19
	2160342206, 2006/10/01		2165830214, 2010/07/08		2171237418, 2014/07/19
	2160342346, 2006/10/01		2165830264, 2010/07/08		2171237514, 2014/07/19
	2160342383, 2006/10/01		2165830276, 2010/07/08		2215135374, 2016/03/02
	2161256050, 2007/03/26		2166793753, 2011/03/12		2215135408, 2016/03/02
			2166863329, 2011/03/28		2215135410, 2016/03/02



Aster_day.png

Legend

	EL-30 area		2165717841, 2010/06/03
	Tasmania boundary		2166095256, 2010/09/07
Terra Aster night imagery			2166127396, 2010/09/16
ID and Acquisition date			2166570362, 2011/01/15
	2165610619, 2010/05/02		2166570436, 2011/01/15
	2165610782, 2010/05/02		2166666836, 2011/02/07
	2165610812, 2010/05/02		2166666964, 2011/02/07
	2165717840, 2010/06/03		2166761493, 2011/03/04



Aster_night.png

Sensor Technical Specifications

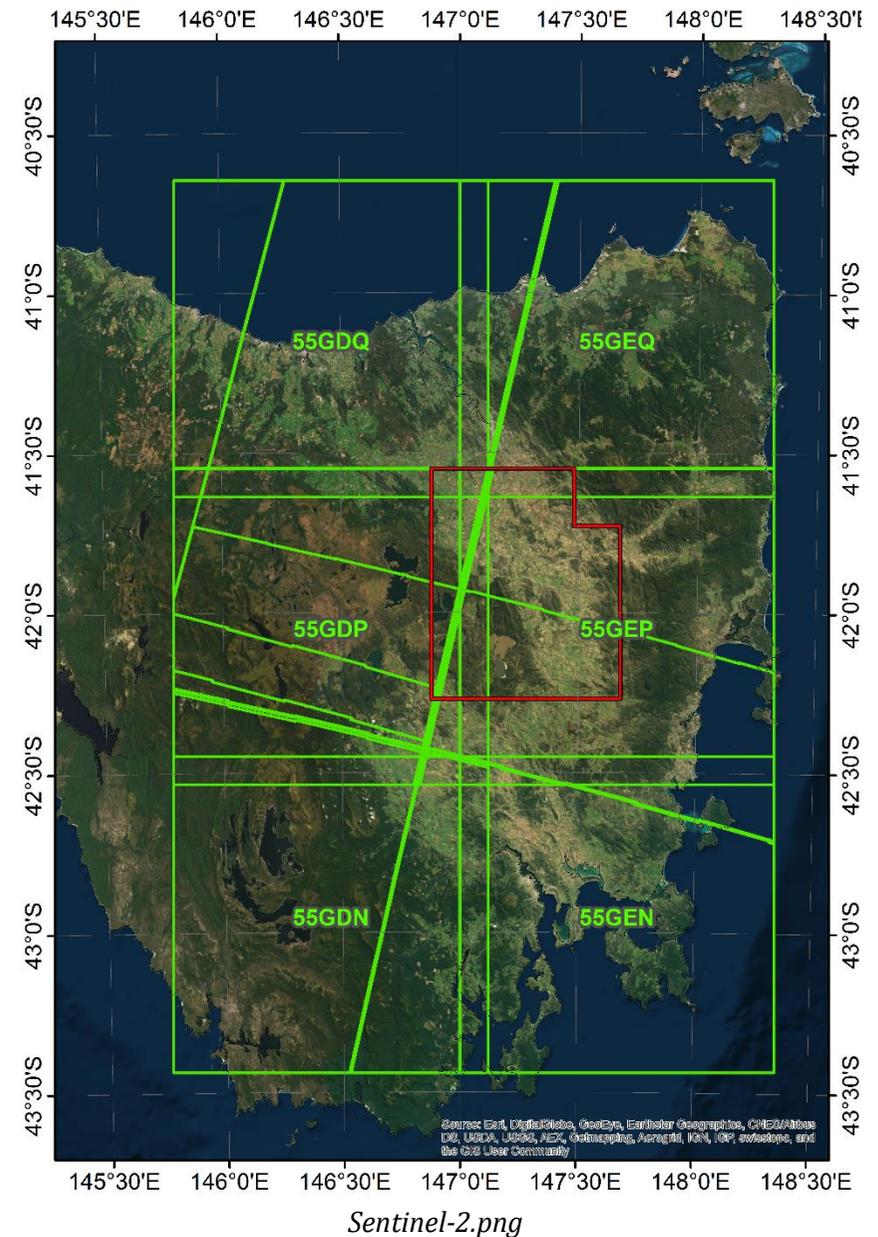
http://esamultimedia.esa.int/docs/S2-Data_Sheet.pdf

Spatial Resolution: 10m - 60m,
 Spectral Range: 443 nm- 2190 nm
 Number of Bands: 13
 Temporal Resolution: 5 days
 Swath: 190 km
 Radiometric resolution 12bit

Band Number	Central wavelength (nm)	Band width (nm)	Spatial resolution (m)
1	443.9	27	60
2	496.6	98	10
3	560.0	45	10
4	664.5	38	10
5	703.9	19	20
6	740.2	18	20
7	782.5	28	20
8	835.1	145	10
8a	864.8	33	20
9	945.0	26	60
10	1373.5	75	60
11	1613.7	143	20
12	2202.4	242	20

Legend

 EL-30 area	 55GDP, 2016-06-02*	 55GDQ, 2017-01-28*	 55GEP, 2017-01-28*
 Tasmania boundary	 55GDP, 2016-09-07*	 55GDQ, 2017-04-18*	 55GEP, 2017-04-18*
Tile name and date	 55GDP, 2016-11-09*	 55GDQ, 2017-05-08*	 55GEP, 2017-05-08*
 55GDN, 2015-12-22*	 55GDP, 2016-12-16*	 55GDQ, 2017-07-09*	 55GEP, 2017-07-09*
 55GDN, 2016-06-02*	 55GDP, 2017-01-28*	 55GDQ, 2017-08-31*	 55GEP, 2017-08-31*
 55GDN, 2016-09-07*	 55GDP, 2017-04-18*	 55GEN, 2015-12-22*	 55GEQ, 2016-05-20*
 55GDN, 2016-11-09*	 55GDP, 2017-05-08*	 55GEN, 2016-12-16*	 55GEQ, 2016-06-02*
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 55GDN, 2017-08-31*	 55GDQ, 2016-05-20*	 55GEP, 2016-06-02*	 55GEQ, 2017-05-08*
 55GDP, 2015-12-22*	 55GDQ, 2016-06-02*	 55GEP, 2016-11-09*	 55GEQ, 2017-08-31*
 55GDP, 2016-05-20*	 55GDQ, 2016-11-09*	 55GEP, 2016-12-16*	



Google Earth is a virtual globe, map, and geographical information program.
<http://www.google.com/earth/index.html>

It maps the Earth by the superimposition of images obtained from middle resolution satellite imagery (Landsat-8, Sentinel-2, Spot-5), high resolution satellite imagery (World-View & GeoEye), aerial photography and Topographical Data (SRTM)



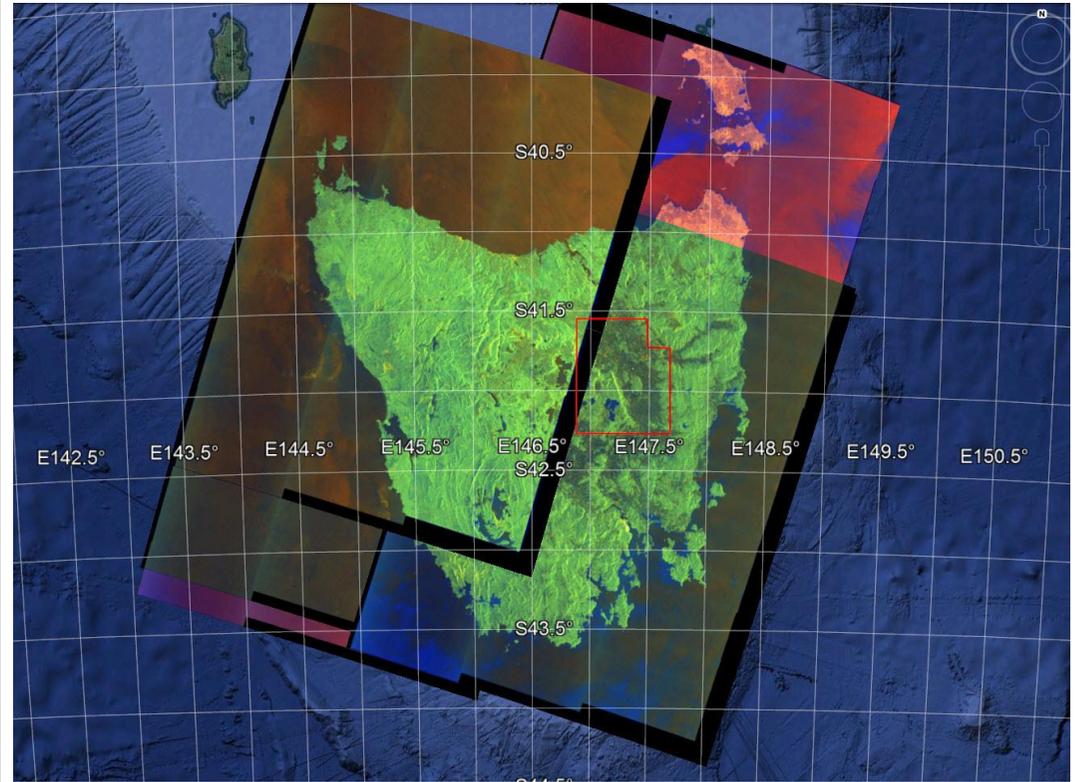
GoogleEarth_Image.jpg

RADAR DATA

DATA TYPE	PARAMETERS AND CHARACTERISTICS
Sentinel 1	<p>Sensor Technical Specifications http://esamultimedia.esa.int/docs/S1-Data_Sheet.pdf Type: C-Band SAR Centre frequency: 5.405 GHz Polarization: VV+VH <i>OR</i> HH+HV Temporal Resolution: 12 days Swaths:</p> <ul style="list-style-type: none"> • Strip Map Mode with 80 km swath and 5x5 m (range x azimuth) spatial resolution • Interferometric Wide-Swath Mode with 250 km swath, 5x20 m (range x azimuth) spatial resolution and burst synchronisation for interferometry • Extra-Wide-Swath Mode with 400 km swath and 20x40 m (range x azimuth) spatial resolution • Wave Mode with 5x5 m (range x azimuth) spatial resolution leap-frog sampled images of 20x20 km at 100 km along the orbit, with alternating 23° and 36.5° incidence angles. <p>Products:</p> <ul style="list-style-type: none"> • Single Look Complex (SLC) products <p>Products consist of focused SAR data and provided in slant-range geometry. It include a single look in each dimension using the full available signal bandwidth and complex samples (real and imaginary) preserving the phase information.</p> <ul style="list-style-type: none"> • Ground Range Detected (GRD) products <p>Products consist of focused SAR data that has been detected, multi-looked and projected. Pixel values represent detected magnitude. Phase information is lost.</p>

List of GRDH Sentinel-1 imagery

S1A_IW_GRDH_1SDV_20150430T192530_20150430T192559_005717_00756D_D994
 S1A_IW_GRDH_1SDV_20150430T192559_20150430T192622_005717_00756D_FB35
 S1A_IW_GRDH_1SDV_20150507T191704_20150507T191733_005819_0077C1_ECB1
 S1A_IW_GRDH_1SDV_20150507T191733_20150507T191758_005819_0077C1_5307
 S1A_IW_GRDH_1SDV_20151015T192537_20151015T192606_008167_00B798_AF1B
 S1A_IW_GRDH_1SDV_20151015T192606_20151015T192629_008167_00B798_776D
 S1A_IW_GRDH_1SDV_20151022T191711_20151022T191740_008269_00BA6E_5646
 S1A_IW_GRDH_1SDV_20151022T191740_20151022T191805_008269_00BA6E_9B48
 S1A_IW_GRDH_1SDV_20160927T192536_20160927T192603_013242_015148_3A70
 S1A_IW_GRDH_1SDV_20161021T192542_20161021T192607_013592_015C50_F308
 S1A_IW_GRDH_1SDV_20161021T192607_20161021T192633_013592_015C50_6C94
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 S1A_IW_GRDH_1SDV_20161121T191737_20161121T191802_014044_016A4A_2353
 S1A_IW_GRDH_1SDV_20161121T191802_20161121T191826_014044_016A4A_BE43
 S1A_IW_GRDH_1SDV_20161126T192541_20161126T192606_014117_016C87_E422
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 S1A_IW_GRDH_1SDV_20161208T192530_20161208T192555_014292_017213_323E
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 S1A_IW_GRDH_1SDV_20170326T192528_20170326T192553_015867_01A259_9393
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 S1A_IW_GRDH_1SDV_20170501T192554_20170501T192620_016392_01B240_7BDB
 S1A_IW_GRDH_1SDV_20170508T191736_20170508T191801_016494_01B55B_080F
 S1A_IW_GRDH_1SDV_20170508T191801_20170508T191827_016494_01B55B_A218
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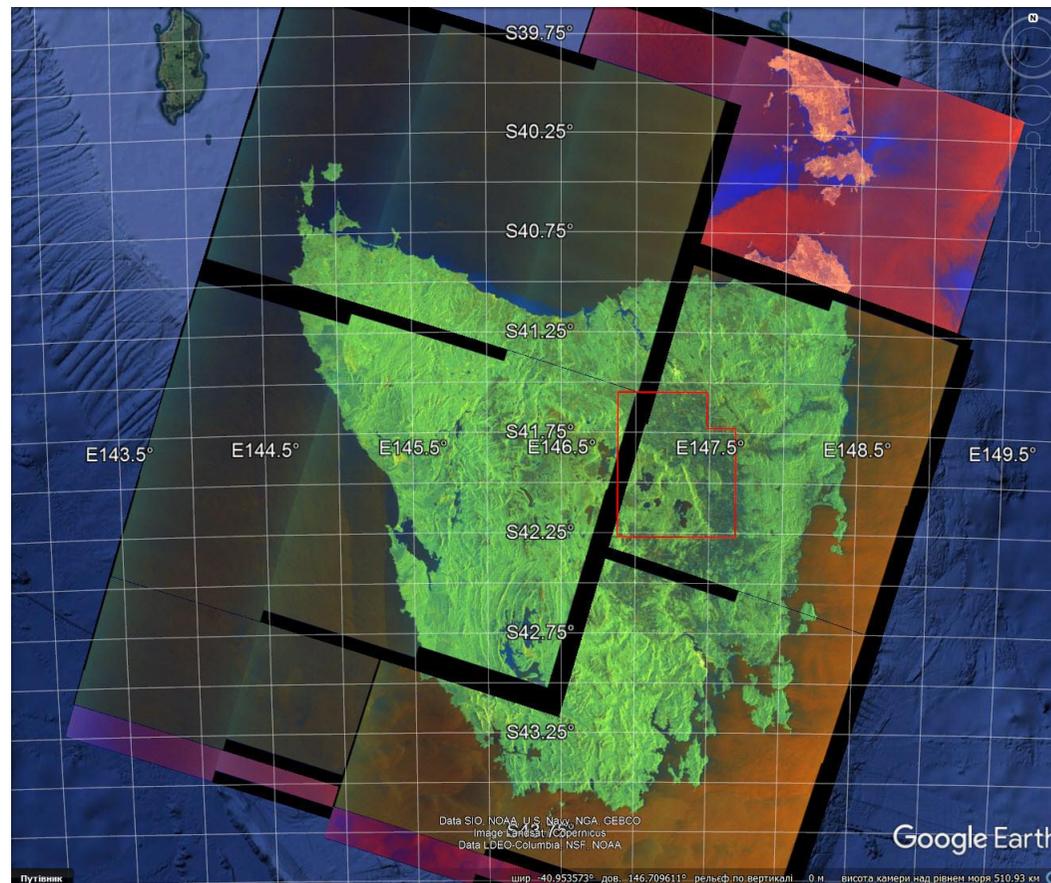
Sentinel1_GRDH.jpg

List of GRDH Sentinel-1 imagery p2

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 S1A_IW_GRDH_1SDV_20170731T191806_20170731T191832_017719_01DAD4_CB5D
 S1A_IW_GRDH_1SDV_20170805T192535_20170805T192600_017792_01DD0A_D448
 S1A_IW_GRDH_1SDV_20170805T192600_20170805T192626_017792_01DD0A_BB69

List of SLC Sentinel-1 imagery

S1A_IW_SLC_1SDV_20151015T192537_20151015T192607_008167_00B798_2C07
 S1A_IW_SLC_1SDV_20151015T192605_20151015T192629_008167_00B798_9DD0
 S1A_IW_SLC_1SDV_20151022T191711_20151022T191741_008269_00BA6E_5CF3
 S1A_IW_SLC_1SDV_20151022T191738_20151022T191805_008269_00BA6E_E183
 S1A_IW_SLC_1SDV_20151022T191803_20151022T191825_008269_00BA6E_37D0
 S1A_IW_SLC_1SDV_20160927T192535_20160927T192603_013242_015148_AC0C
 S1A_IW_SLC_1SDV_20161021T192606_20161021T192633_013592_015C50_4861
 S1A_IW_SLC_1SDV_20161203T191735_20161203T191802_014219_016FBC_5A89
 S1A_IW_SLC_1SDV_20161203T191800_20161203T191825_014219_016FBC_1A77
 S1A_IW_SLC_1SDV_20161208T192529_20161208T192556_014292_017213_9A8D
 S1A_IW_SLC_1SDV_20161208T192554_20161208T192621_014292_017213_4567
 S1A_IW_SLC_1SDV_20161215T191736_20161215T191803_014394_01754A_E905
 S1A_IW_SLC_1SDV_20161215T191800_20161215T191828_014394_01754A_E391
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 S1A_IW_SLC_1SDV_20170525T192554_20170525T192621_016742_01BCEF_A2C5
 S1A_IW_SLC_1SDV_20170606T192530_20170606T192557_016917_01C268_3501
 S1A_IW_SLC_1SDV_20170606T192555_20170606T192622_016917_01C268_39FC
 S1A_IW_SLC_1SDV_20170613T191737_20170613T191804_017019_01C588_BE3E
 S1A_IW_SLC_1SDV_20170613T191802_20170613T191829_017019_01C588_C6C0
 S1A_IW_SLC_1SDV_20170618T192531_20170618T192558_017092_01C7C8_7EF9
 S1A_IW_SLC_1SDV_20170618T192556_20170618T192623_017092_01C7C8_8DF0
 S1A_IW_SLC_1SDV_20170625T191738_20170625T191805_017194_01CADD_5E4B
 S1A_IW_SLC_1SDV_20170625T191803_20170625T191830_017194_01CADD_BFDA
 S1A_IW_SLC_1SDV_20170630T192532_20170630T192559_017267_01CD10_C589
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 S1A_IW_SLC_1SDV_20170707T191738_20170707T191806_017369_01D020_5AD9
 S1A_IW_SLC_1SDV_20170707T191803_20170707T191830_017369_01D020_5ED8
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 S1A_IW_SLC_1SDV_20170817T192534_20170817T192601_017967_01E256_8208
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 S1A_IW_SLC_1SDV_20170824T191806_20170824T191833_018069_01E56E_ACB6
 S1A_IW_SLC_1SDV_20170905T191742_20170905T191809_018244_01EAC1_942E
 S1A_IW_SLC_1SDV_20170905T191806_20170905T191834_018244_01EAC1_955D
 S1A_IW_SLC_1SDV_20170910T192535_20170910T192602_018317_01ED0F_0E37
 S1A_IW_SLC_1SDV_20170910T192600_20170910T192627_018317_01ED0F_C741



Sentinel1_SLC.jpg

Sensor Technical Specifications

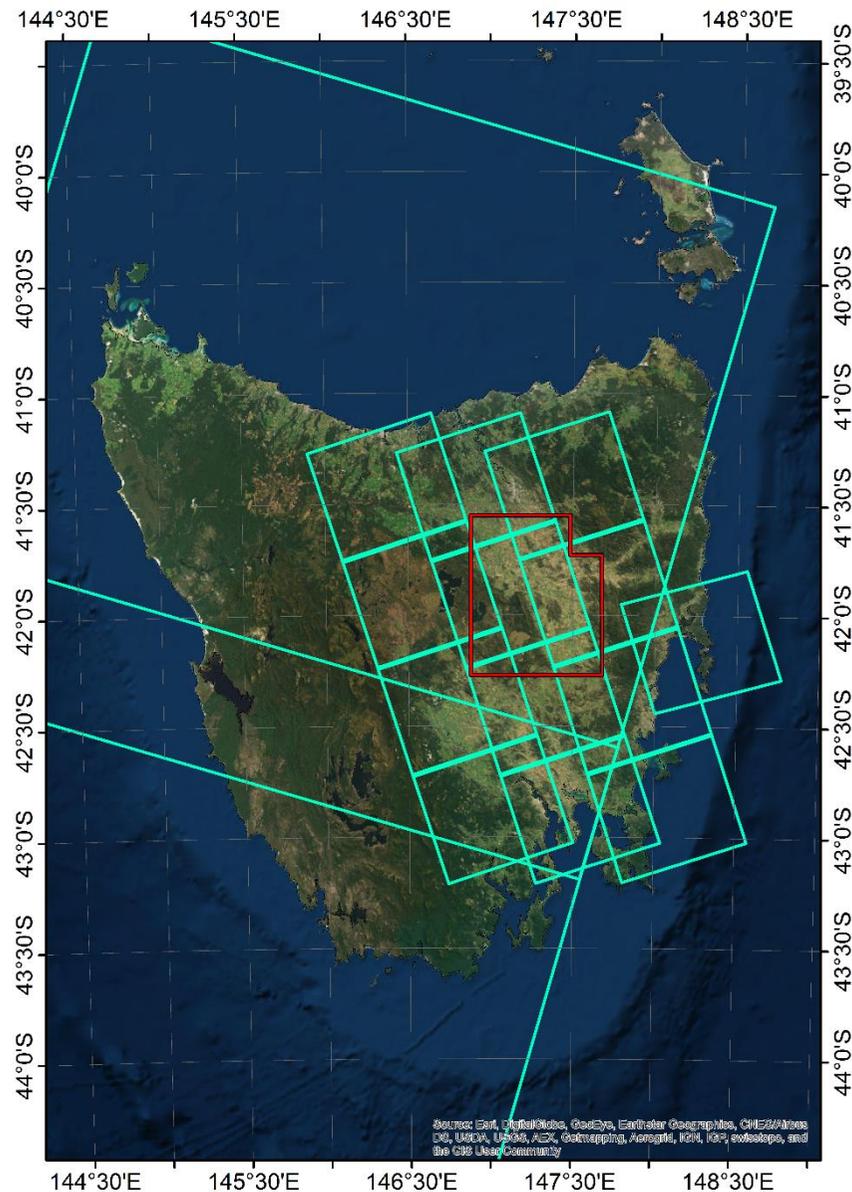
http://www.pcigeomatics.com/geomatica-help/references/gdb_r/ALOS-1_PALSAR.html

Long name	PALSAR1
Short name	PS1
Sensor type	Synthetic Aperture Radar (SAR)
Platform	Advanced Land Observing Satellite-1 (ALOS-1)
Frequency	1.2 GHz
Band (wavelength)	L (22.9 centimeters)
Polarization	HH, HV, VH, VV (fully polarimetric)

This is the product of Single-look complex (SLC) equally spaced on slant range (equal to the spacing of sampling measurement) generated after rendering SAR processing to level 1.0 product.

Legend

 EL-30 area	 ALPSRP076506330, 2007-07-02T13:33:22
 Tasmania boundary	 ALPSRP076506340, 2007-07-02T13:33:31
Alos Palsar Level1.1	 ALPSRP078986310, 2007-07-19T13:35:13
ID and Acquisition date	 ALPSRP078986320, 2007-07-19T13:35:21
 ALPSRP074756310, 2007-06-20T13:37:24	 ALPSRP078986330, 2007-07-19T13:35:29
 ALPSRP074756320, 2007-06-20T13:37:32	 ALPSRP078986340, 2007-07-19T13:35:37
 ALPSRP074756330, 2007-06-20T13:37:41	 ALPSRP080736330, 2007-07-31T13:31:10
 ALPSRP074756340, 2007-06-20T13:37:49	 ALPSRS143524450, 2008-10-03T23:56:08
 ALPSRP076506310, 2007-07-02T13:33:06	 ALPSRS143524500, 2008-10-03T23:56:49
 ALPSRP076506320, 2007-07-02T13:33:14	



Alos_palsar_L11.png

Sensor Technical Specifications

http://www.pcigeomatics.com/geomatica-help/references/gdb_r/ALOS-1_PALSAR.html

Long name	PALSAR1
Short name	PS1
Sensor type	Synthetic Aperture Radar (SAR)
Platform	Advanced Land Observing Satellite-1 (ALOS-1)
Frequency	1.2 GHz
Band (wavelength)	L (22.9 centimeters)
Polarization	HH, HV, VH, VV (fully polarimetric)

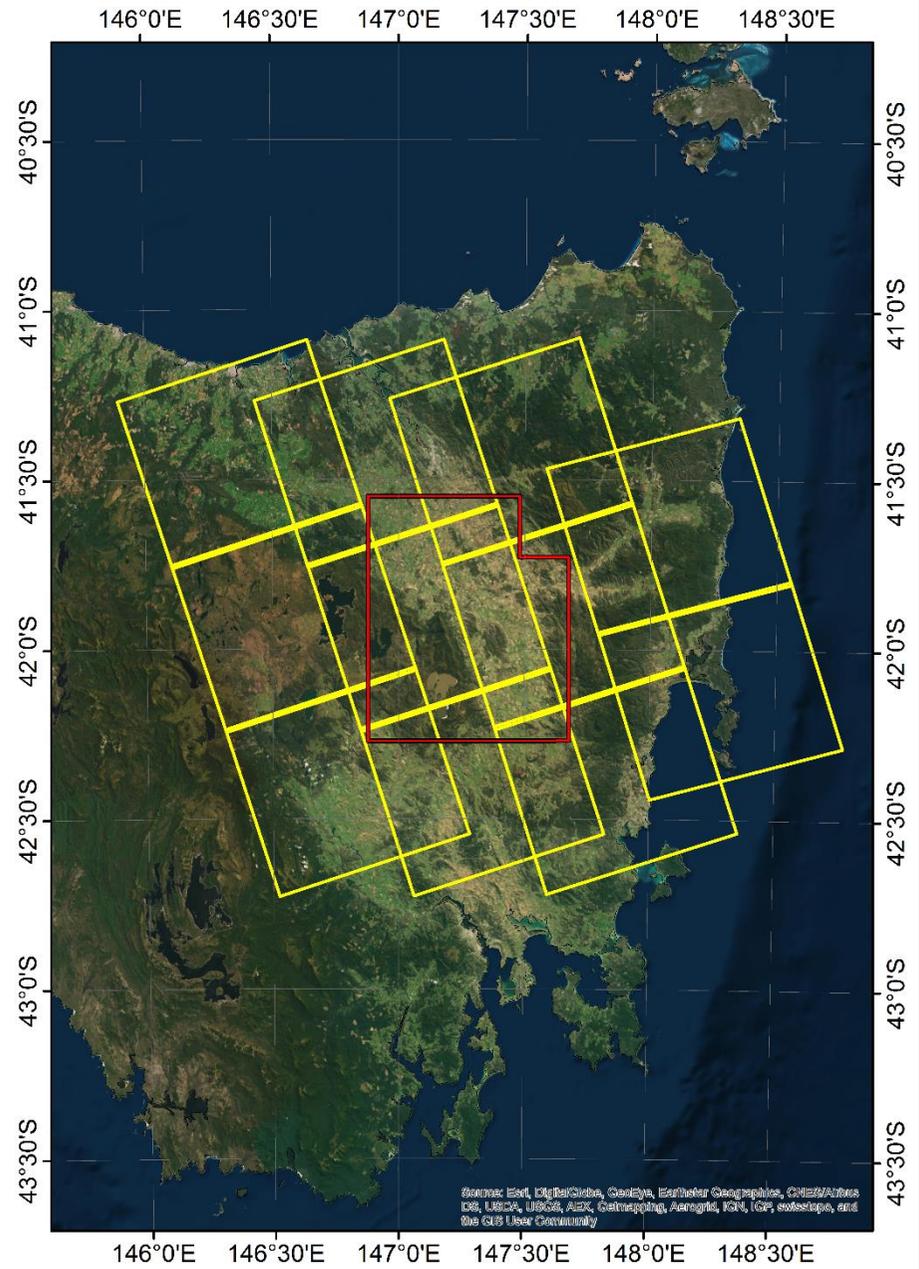
This is the product of Multi-look amplitude generated after rendering SAR processing to level 1.0 product, acquired in single polarization high resolution mode. The data are equally spaced on the ground.

Legend

 EL-30 area	 ALPSRP076506330, 2007-07-02T13:33:22
 Tasmania boundary	 ALPSRP076506340, 2007-07-02T13:33:31
	 ALPSRP078986320, 2007-07-19T13:35:21
	 ALPSRP078986330, 2007-07-19T13:35:29
	 ALPSRP078986340, 2007-07-19T13:35:37
	 ALPSRP080736330, 2007-07-31T13:31:10
	 ALPSRP080736340, 2007-07-31T13:31:18
 ALPSRP074756320, 2007-06-20T13:37:32	
 ALPSRP074756330, 2007-06-20T13:37:41	
 ALPSRP074756340, 2007-06-20T13:37:49	
 ALPSRP076506320, 2007-07-02T13:33:14	

Alos Palsar Level1.5

ID and Acquisition date



Alos_palsar_L15.png

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGP, swisstopo, and the GIS User Community

The 1 Second DSM and DEM are national elevation data products derived from the Shuttle Radar Topographic Mission (SRTM) data

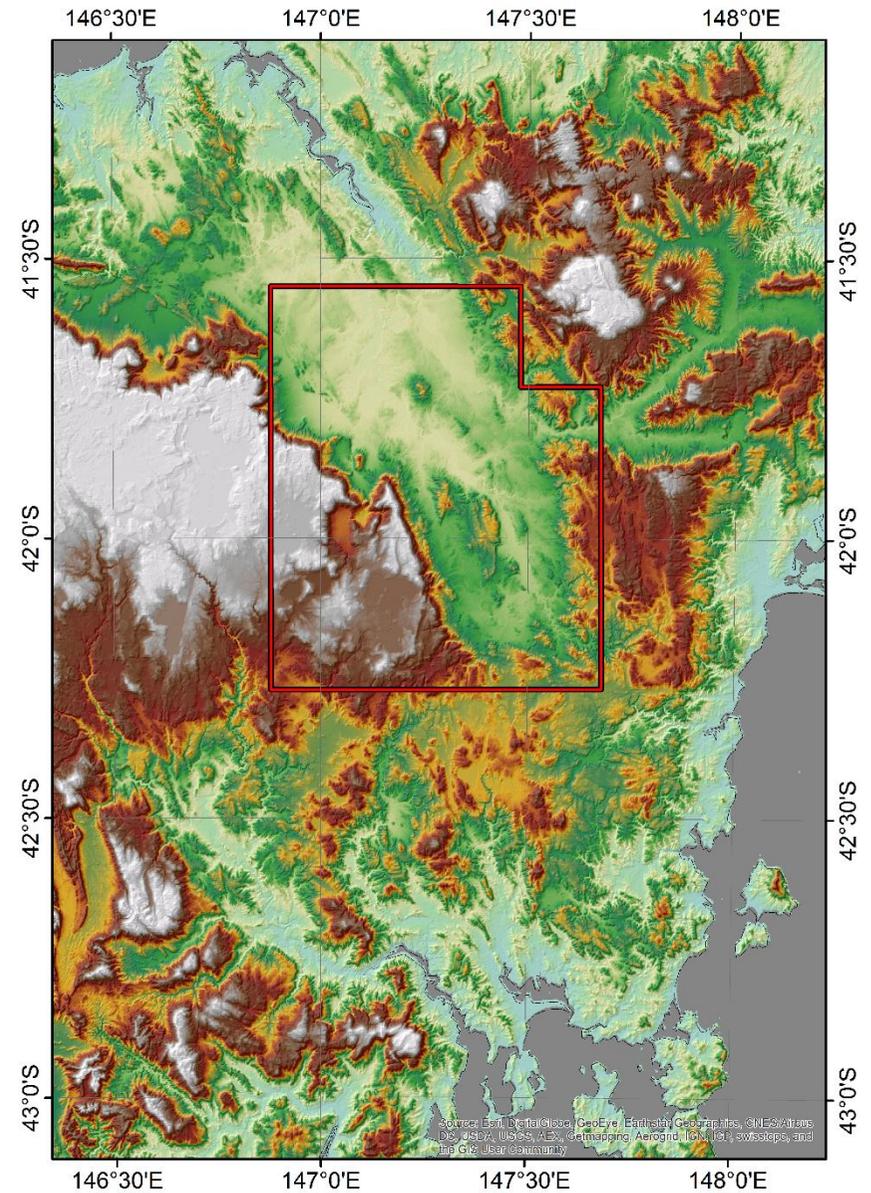
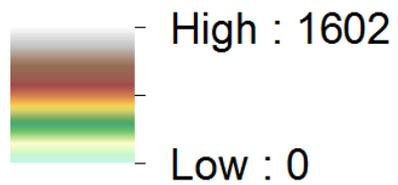
SRTM Specification	
Resolution	1 arc-second (~30 m)
Bit Depth	16 bit
Versioning	June 2011, the Level-2

Legend

-  EL-30 area
-  Tasmania boundary

Australia National DEM 25m

meters



Au_national.png

The ASTER Global Digital Elevation Model (ASTER GDEM) is a joint product developed and made available to the public by the Ministry of Economy, Trade, and Industry (METI) of Japan and the United States National Aeronautics and Space Administration (NASA). It is generated from data collected from the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), a spaceborne earth observing optical instrument.

During October 2011 version 2 of Global Digital Elevation Model was publicly released. This is considered an improvement upon version 1. These improvements include increased horizontal and vertical accuracy, better horizontal resolution, reduced presence of artifacts, and more realistic values over water bodies.

<https://asterweb.jpl.nasa.gov/gdem.asp>

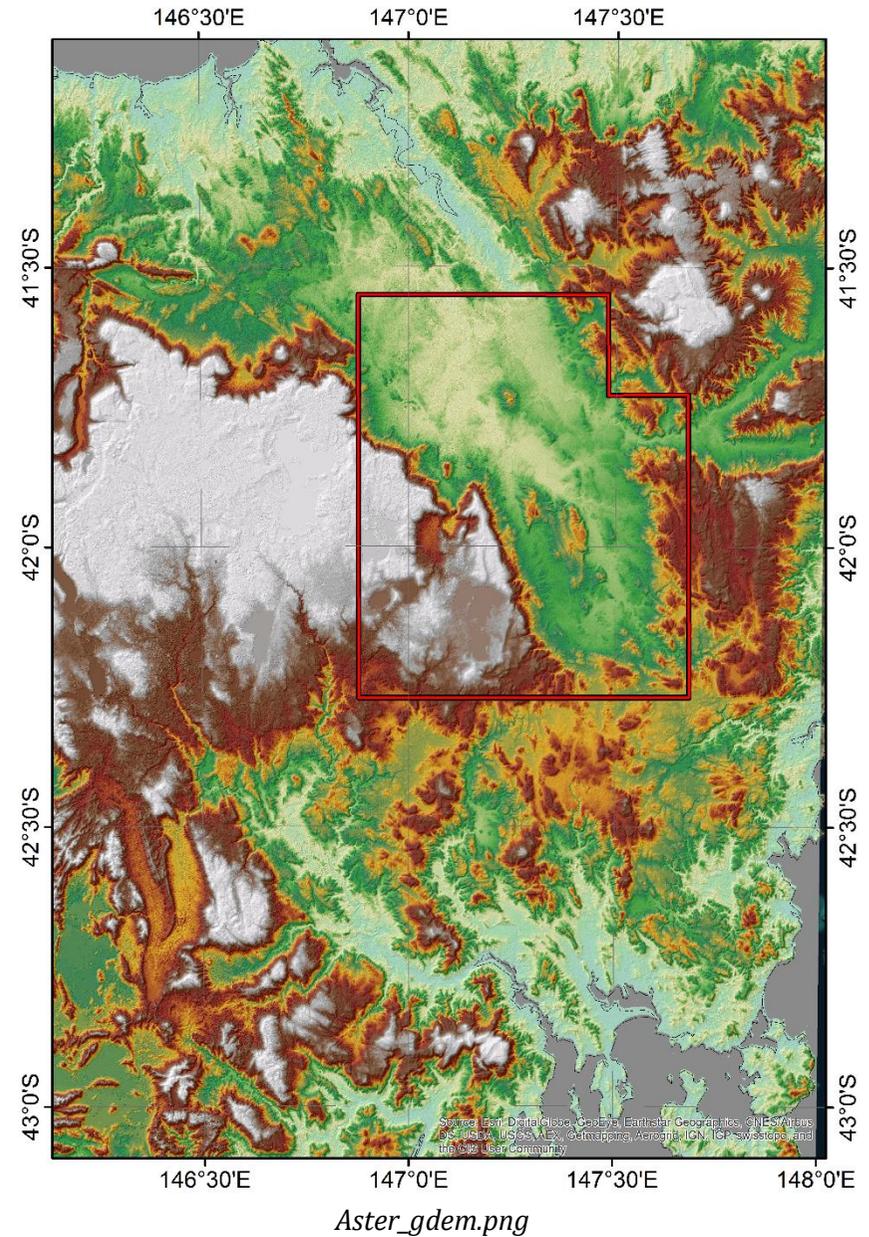
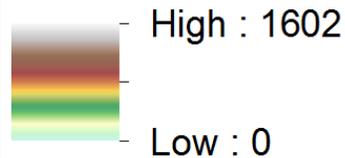
Aster GDTM Specifications	
Data Source	Aster
Resolution	1 arc-second (30 m)
Coverage	83 degrees north - 83 degrees south
Versioning	version 2 , 2011

Legend

- EL-30 area
- Tasmania boundary

Aster Gdem v2

meters



Technical Specifications

https://media.asf.alaska.edu/uploads/RTC/rtc_product_guide_v1.2.pdf

Alos DEM Specifications	
Resolution	12.5 m
Bit Depth	16 bit

Legend



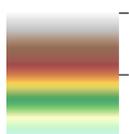
EL-30 area



Tasmania boundary

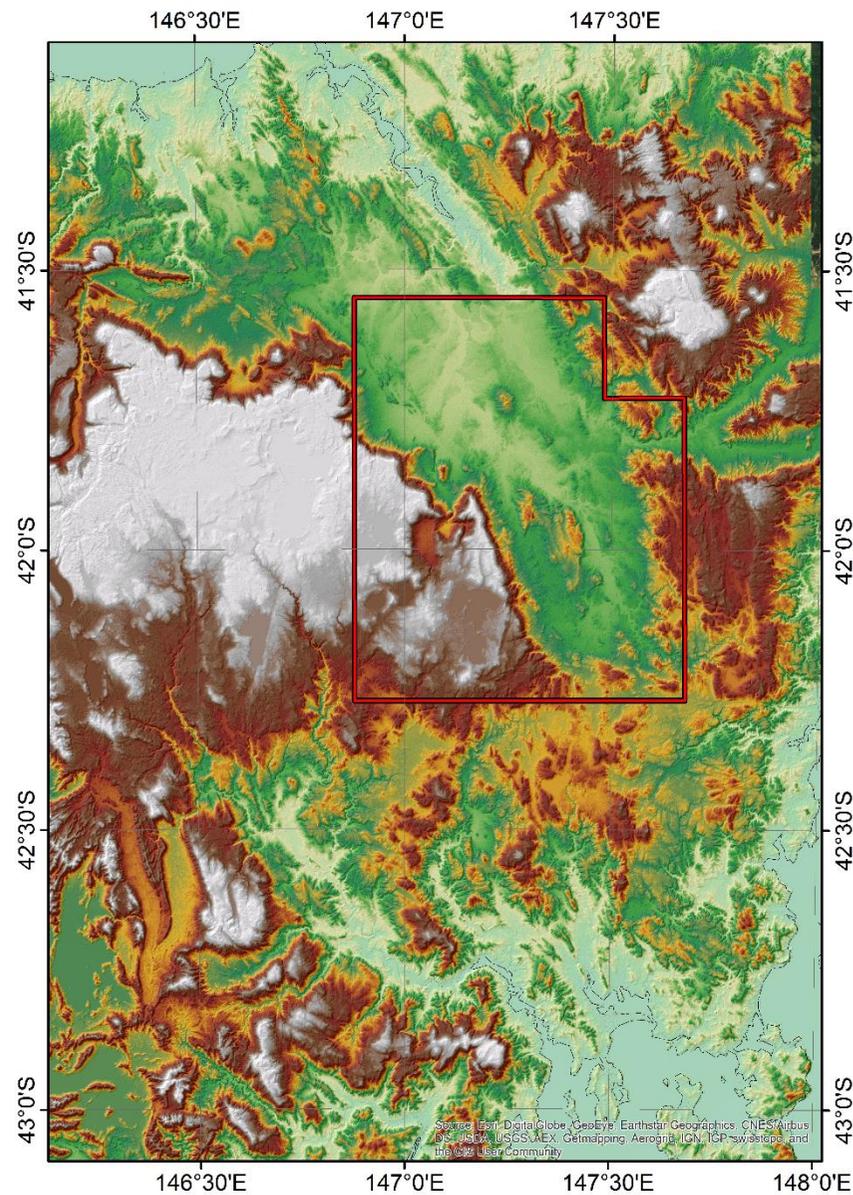
Alos dem

meters



High : 1610

Low : 0



el_Alos_dem.png