

1. Identification

LongName	glaciers_cci_gi_rgi05_TM-ETM_1994-2009_v170520.zip		
ShortName	Greenland CL0/1 Glacier Inventory	Type	Vector (polygon), shapefile
Creators	Philipp Rastner, Nico Mölg, Tobias Bolch, Raymond LeBris, Frank Paul	Institution	Dept. of Geography University of Zurich
Created at	20.05. 2017 (release 2.0)	Funding	ESA Glaciers_cci, EU FP7 ice2sea
Entry ID	gi_rgi05_002	Remarks	Update from Rastner et al. (2012)

2. Description

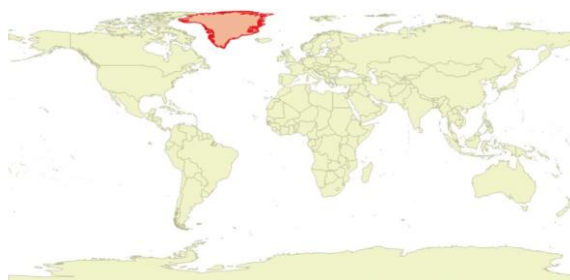
Description	This data set is an update of gi_rgi05_001 including only the peripheral glaciers and ice caps with connectivity levels CL0 / CL1 (no/weak connection to the ice sheet). It has improved topology and numbers for area and entities have slightly changed compared to Rastner et al. (2012).		
Methods	Band ratio red/SWIR with scene specific thresholds and manual correction of debris cover, seasonal snow, shadow, water (outside of glaciers), sea ice and icebergs.		
References	Rastner, P., Bolch, T., Mölg, N., Machguth, H., Le Bris, R., Paul, F. (2012): The first complete inventory of the local glaciers and ice caps on Greenland. The Cryosphere, 6, 1483-1495. (doi:10.5194/tc-6-1483-2012)		
Citation	When using this dataset, please cite the above reference (Rastner et al. 2012).		

3. Source data

Source	glovis.usgs.gov	Date (range)	12.07. 1994 - 06.07. 2010
Satellites	Landsat 5 and 7	Years total	16 (max), core: 5 (1999-2004)
Sensors	TM, ETM+	Product	USGS L1T
Path (range)	001-045, 224-233	Remarks	L7 SLC-off were mosaiced; GIMP DEM used for drainage divides; GIC north of 81 N are from GIMP ice mask
Row (range)	001-018		
Nr. of scenes	55 (see map and list)		

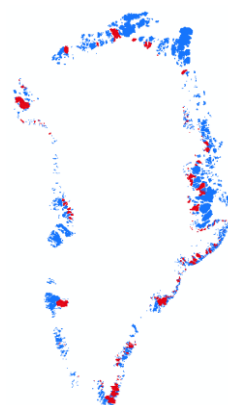
4. Geographic coverage

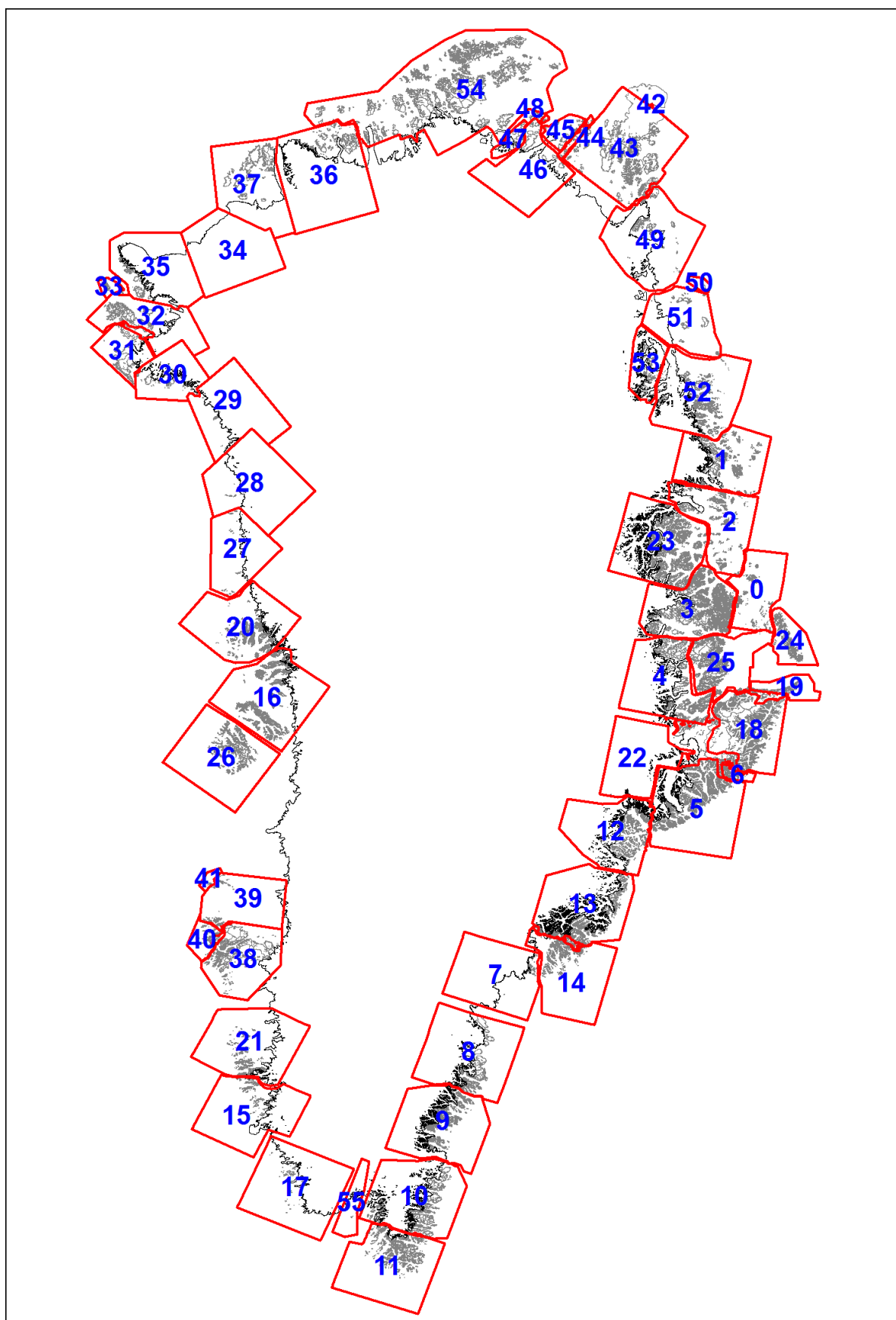
Country	Greenland
Region	CL0/1 peripheral glaciers after update of ice sheet outline
RGI Region	5 (Greenland)
Longitude	10-73 E
Latitude	60-84 N
Projection	Lambert Azimuthal Equal Area
Datum	WGS84
Sampling	30 m (sensor pixels)



5. Data files

Name*	glaciers_cci_gi_greenland_cl0-cl1_2000.xxx		
Size	89 MB	Upload:	09.11. 2017
File 1-7	Name + .dbf/.prj/.sbn/.sbx/.shp/.shx/.xml		
File 8	Screen shot of geographical coverage		
File 9	This Metadata Information Sheet		





Numbered footprints of the satellite scenes (red) used to create the Greenland glacier inventory with glaciers in grey and the outline of the ice sheet (the only part of this dataset) in black

(see Table on the next page for the satellites scenes representing each footprint).

FID	day	Image_ID	FID	day	Image_ID
0	19.08.2000	LE72280092000232SGS00	28	30.08.2001	LE70190072001242EDC00
1	20.08.2001	LE72300072001232SGS00	29	26.08.2001	LE70230062001238EDC00
2	20.08.2001	LE72300082001232SGS00	30	27.07.2000	LE70260062000209EDC00
3	20.08.2001	LE72300092001232SGS00	31	23.08.2002	LE70290062002235EDC00
4	21.09.2001	LE72300102001264SGS00	32	28.06.2000	LE70310052000180EDC02
5	01.08.1999	LE72280121999213SGS00	33	06.07.2010	LE70350052010187EDC00
6	08.08.2001	LE72260122001220SGS00	34	24.06.2000	LE70350032000176EDC00
7	27.07.2002	LE72330142002208EDC00	35	24.07.1999	LE70350041999205EDC00
8	27.07.2002	LE72330152002208EDC00	36	20.07.1999	LE70390011999201EDC00
9	10.09.2001	LE72330162001253PFS00	37	20.07.1999	LE70390021999201EDC00
10	12.08.2002	LE72330172002224EDC00	38	23.08.2000	LE70070142000236EDC00
11	12.08.2002	LE72330182002224EDC00	39	01.08.2001	LE70080132001213EDC00
12	14.08.2002	LE72310122002226SGS00	40	14.08.2000	LE70080142000227EDC00
13	09.09.2000	LE72310132000253SGS00	41	12.07.1994	LT50090131994193PAC00
14	07.09.1999	LE72310141999250AGS00	42	03.07.2001	LE70130012001184EDC00
15	25.08.2000	LE70050162000238AGS02	43	01.07.2003	LE70130012001184EDC00
16	16.08.2002	LE70120102002228EDC00	44	30.07.2003	LE70160012003211EDC02
17	27.08.2000	LE70030172000240EDC00	45	19.06.2007	LE70200012005180ASN00
18	28.08.2000	LE72270112000241SGS00	46	17.07.2004	LE70230012004199ASN01
19	05.09.2002	LE72250112002248SGS00	47	22.07.2003	LE70240012003203EDC03
20	21.08.2002	LE70150092002233EDC00	48	10.07.2004	LE70220012004192EDC01
21	14.08.1999	LE70060151999226EDC00	49	31.07.2003	LE70070032003212EDC02
22	09.09.2000	LE72310112000253SGS00	50	31.07.2009	LT52320052009212KIS00
23	18.08.2001	LE72320082001230SGS00	51	23.07.2004	LE70010052004205EDC01
24	14.09.2002	LE72240102002257SGS00	52	31.07.2003	LE70070042003212EDC02
25	19.08.2000	LE72280102000232SGS00	53	26.07.2003	LE70040052003207ASN02
26	29.08.2001	LE70120112001241PFS01	54	01.09.1999	GIMP ICE MASK with MODIS
27	07.08.2001	LE70180082001219AGS00	55	23.08.2001	LE70020172001235EDC00

Decoding of the numbers shown for the scene footprints. The image ID first describes the sensor (LE7=Landsat 7 ETM+, LT5: Landsat 5 TM), followed by path (ppp) and row (rrr), the year (yyyy) and the day in the year (ddd). the last five digits relate to the receiving station.