Supplementary materials of

 Glacier Mass Change on the Kamchatka Peninsula, Russia, from 2000- 2016

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Table S1. Satellite imagery used in this study for mapping glacier boundaries. Imagery used for “Other Regions” were analyzed for small glaciers distributed out of the six major regions.

|  |  |  |  |
| --- | --- | --- | --- |
| Region | Scene ID | Date [yyyy.mm.dd] | Satellite |
| AV | LE70990232000241EDC00 | 2000.09.06 | Landsat7 |
| AV | LC80990232015258LGN01 | 2015.09.15 | Landsat8 |
| KR | LE70980222000250EDC00 | 2000.09.06 | Landsat7 |
| KR | LE70980222006250EDC00 | 2006.09.07 | Landsat7 |
| KR | LE70980222011248EDC00 | 2011.09.05 | Landsat7 |
| KR | LE70980222015259EDC00 | 2015.09.16 | Landsat7 |
| KL | LE70980212000266EDC01 | 2000.09.22 | Landsat7 |
| KL | LE70980212014240EDC00 | 2014.08.28 | Landsat7 |
| IC | LE71000212000232EDC00 | 2000.08.19 | Landsat7 |
| IC | LE71000212014254ASN00 | 2014.09.11 | Landsat7 |
| AL | LE70990202002230EDC00 | 2002.08.18 | Landsat7 |
| AL | LC81000202016220LGN01 | 2016.08.07 | Landsat8 |
| NS | LE70990202002230EDC00 | 2002.08.18 | Landsat7 |
| NS | LE70990192002230EDC00 | 2002.08.18 | Landsat7 |
| NS | LC81000202016220LGN01 | 2016.08.07 | Landsat8 |
| NS | LE70990192016221EDC00 | 2016.08.08 | Landsat7 |
| Other Regions | LE70990242001243EDC00 | 2001.08.31 | Landsat7 |
| Other Regions | LE70990232000241EDC00 | 2000.09.06 | Landsat7 |
| Other Regions | LE70990232001243EDC00 | 2001.08.31 | Landsat7 |
| Other Regions | LE71000222000232EDC00 | 2000.08.19 | Landsat7 |
| Other Regions | LE70980212000266EDC01 | 2000.09.22 | Landsat7 |
| Other Regions | LE71000212000232EDC00 | 2000.08.19 | Landsat7 |
| Other Regions | LE70990192016221EDC00 | 2002.08.18 | Landsat7 |
| Other Regions | LC80990242015258LGN01 | 2015.09.15 | Landsat8 |
| Other Regions | LC80990232015258LGN01 | 2015.09.15 | Landsat8 |
| Other Regions | LC81010222014253LGN01 | 2014.09.10 | Landsat8 |
| Other Regions | LE70980222015259EDC00 | 2015.09.16 | Landsat7 |
| Other Regions | LE70980212014240EDC00 | 2014.08.28 | Landsat7 |
| Other Regions | LC81000212015233LGN01 | 2015.08.21 | Landsat8 |
| Other Regions | LE70990192016221EDC00 | 2016.08.08 | Landsat7 |

Table S2.

ArcticDEMs used in this study.

|  |  |  |
| --- | --- | --- |
| Region | DEM ID | Date [yyyy–mm–dd] |
| AV1 | WV01\_20150918\_1020010045D91900\_102001004242A100\_seg1\_2m | 2015–09–18 |
| AV2 | WV03\_20160707\_104001001E355400\_104001001D617E00\_seg1\_2m | 2016–07–07 |
| NS1 | WV01\_20160609\_102001004FBC1800\_102001004F2AB100\_seg2\_2m | 2016–06–09 |
| NS2 | WV02\_20160608\_10300100583B1100\_1030010057748B00\_seg1\_2m | 2016–06–08 |
| NS3 | WV01\_20160412\_102001004CA4DA00\_102001004CE19C00\_seg1\_2m | 2016–04–12 |
| NS3 | WV02\_20160415\_103001005584F700\_1030010053B90300\_seg1\_2m | 2016–04–15 |
| NS4 | WV02\_20140831\_103001003697D200\_1030010036B90200\_seg3\_2m | 2014–08–31 |

Table S3.

Stereo pair imagery used in this study to generate DEMs.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Region | Scene ID | Date [yyyy–mm–dd] | Satelite | Sensor | Resolution (m) |
| KR | ALPSMF036022435ALPSMN036022490 | 2006–09–28 | ALOS | PRISM | 2.5 |
| KR | ALPSMF244032435ALPSMN244032490 | 2010–08–24 | ALOS | PRISM | 2.5 |
| KR | AST\_L1A\_00309162015003301 | 2015–09–16 | Terra | ASTER | 30 |
| KL | AST\_L1A\_00308282014003229 | 2014–08–28 | Terra | ASTER | 30 |
| IC | AST\_L1A\_00307232014005641 | 2014–07–23 | Terra | ASTER | 30 |
| AL | AST\_L1A\_00307052016005112 | 2016–07–05 | Terra | ASTER | 30 |
| NS (NS2) | ALPSMF238782370ALPSMN238782425 | 2010–07–19 | ALOS | PRISM | 2.5 |
| NS (NS3) | ALPSMF238782365ALPSMN238782420 | 2010–07–19 | ALOS | PRISM | 2.5 |