|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | % of original offsets filtered at each sub-division | | | | | |  |
| Date | 1 | 2 | 3 | 4 | 5 | 6 | % overall filtered |
| 20150129-20150210 | 25.00 | 32.69 | 14.93 | 29.58 | 10.96 | 5.97 | **18.42** |
| 20150210-20150318 | 66.67 | 38.46 | 17.91 | 28.17 | 13.70 | 0.00 | **20.47** |
| 20150318-20150330 | 23.08 | 12.24 | 22.73 | 22.86 | 20.27 | 27.27 | **21.60** |
| 20150330-20150423 | 23.08 | 37.25 | 35.82 | 5.71 | 12.33 | 1.45 | **17.49** |
| 20150423-20150505 | 15.38 | 15.69 | 16.42 | 24.29 | 10.96 | 4.41 | **14.33** |
| 20150505-20150517 | 25.00 | 23.08 | 27.69 | 7.35 | 1.41 | 1.41 | **11.80** |
| 20150517-20150529 | 23.08 | 19.61 | 45.45 | 7.35 | 23.61 | 0.00 | **19.17** |
| 20150529-20150610 | 25.00 | 25.49 | 55.38 | 36.23 | 12.33 | 1.67 | **26.36** |
| 20150610-20150622 | 30.77 | 19.61 | 37.88 | 30.00 | 21.92 | 9.38 | **24.33** |
| 20150622-20150704 | 0.00 | 21.57 | 28.36 | 8.57 | 20.55 | 5.88 | **16.08** |
| 20150704-20150716 | 7.69 | 23.53 | 28.36 | 11.43 | 26.39 | 11.94 | **19.71** |
| 20150716-20150728 | 0.00 | 32.00 | 46.15 | 21.43 | 6.85 | 1.47 | **19.76** |
| 20150728-20150809 | 8.33 | 39.22 | 50.77 | 12.86 | 31.51 | 14.93 | **28.40** |
| 20150809-20150821 | 14.29 | 48.00 | 10.77 | 14.29 | 6.94 | 8.82 | **15.93** |
| 20150821-20150902 | 33.33 | 28.00 | 29.23 | 37.14 | 0.00 | 25.37 | **23.74** |
| 20150902-20150914 | 30.77 | 35.29 | 18.18 | 11.43 | 17.81 | 0.00 | **16.18** |
| 20150914-20150926 | 7.69 | 23.53 | 25.76 | 28.57 | 19.18 | 16.42 | **22.06** |
| 20150926-20151008 | 0.00 | 7.84 | 9.23 | 10.14 | 16.44 | 9.09 | **10.45** |
| 20151008-20151020 | 46.15 | 15.69 | 21.54 | 21.43 | 13.70 | 23.53 | **20.29** |
| 20151020-20151101 | 0.00 | 15.69 | 24.62 | 40.00 | 28.77 | 8.96 | **23.30** |
| 20151101-20151113 | 30.77 | 25.49 | 36.92 | 12.86 | 5.48 | 8.96 | **17.70** |
| 20151113-20151125 | 15.38 | 25.49 | 51.52 | 37.14 | 26.39 | 17.39 | **31.09** |
| 20151125-20151207 | 72.73 | 50.98 | 26.15 | 20.29 | 2.74 | 4.48 | **20.83** |
| 20151207-20151219 | 18.18 | 15.69 | 9.23 | 27.54 | 23.29 | 7.46 | **16.96** |
| 20151219-20151231 | 0.00 | 10.20 | 47.69 | 41.43 | 9.72 | 25.37 | **26.49** |
| 20151231-20160112 | 33.33 | 17.65 | 26.15 | 30.00 | 20.55 | 31.34 | **25.74** |
| 20160112-20160124 | 41.67 | 37.25 | 43.08 | 32.86 | 0.00 | 2.99 | **22.78** |
| 20160124-20160205 | 8.33 | 0.00 | 1.54 | 20.00 | 0.00 | 0.00 | **4.73** |
| 20160217-20160229 | 41.67 | 47.06 | 23.08 | 10.00 | 20.55 | 11.94 | **21.89** |
| 20160229-20160312 | 66.67 | 43.14 | 21.54 | 28.57 | 5.48 | 4.48 | **21.01** |
| 20160312-20160324 | 16.67 | 28.00 | 13.64 | 24.29 | 21.92 | 17.91 | **20.71** |
| 20160324-20160405 | 8.33 | 33.33 | 20.00 | 20.00 | 5.48 | 5.97 | **15.68** |
| 20160405-20160417 | 0.00 | 47.06 | 26.15 | 17.14 | 13.70 | 17.65 | **22.06** |
| 20160417-20160429 | 41.67 | 35.29 | 15.38 | 33.33 | 13.70 | 14.93 | **22.55** |
| 20160429-20160511 | 23.08 | 19.61 | 7.69 | 37.14 | 27.40 | 48.53 | **28.53** |
| 20160505-20160217 | 33.33 | 43.14 | 13.85 | 30.43 | 6.85 | 1.49 | **18.40** |
| 20160511-20160523 | 7.69 | 14.29 | 43.94 | 33.33 | 15.49 | 22.73 | **25.75** |
| 20160523-20160604 | 0.00 | 24.49 | 36.36 | 26.09 | 6.94 | 3.03 | **18.21** |
| 20160604-20160628 | 0.00 | 24.49 | 30.30 | 15.94 | 10.96 | 9.09 | **16.96** |
| 20160628-20160722 | 38.46 | 44.90 | 30.30 | 28.99 | 5.48 | 4.55 | **22.02** |
| 20160722-20160803 | 38.46 | 12.24 | 12.12 | 34.78 | 48.61 | 22.73 | **27.76** |
| 20160803-20180815 | 0.00 | 22.00 | 16.67 | 20.29 | 4.11 | 12.12 | **13.99** |
| 20160815-20160827 | 23.08 | 51.02 | 31.82 | 15.94 | 12.50 | 28.79 | **26.27** |
| 20160827-20160908 | 0.00 | 13.73 | 16.67 | 30.43 | 18.92 | 21.21 | **19.88** |
| 20160908-20161002 | 45.45 | 50.98 | 48.48 | 59.42 | 48.65 | 30.30 | **47.48** |
| 20161002-20161014 | 23.08 | 22.45 | 12.12 | 21.43 | 45.21 | 9.09 | **22.55** |
| 20161014-20161026 | 7.69 | 24.49 | 10.61 | 33.33 | 30.56 | 4.55 | **20.30** |
| 20161026-20161107 | 30.77 | 28.57 | 28.79 | 20.00 | 41.10 | 3.03 | **24.63** |
| 20161107-20161119 | 45.45 | 45.10 | 28.36 | 24.64 | 24.66 | 0.00 | **24.33** |
| 20161119-20161201 | 50.00 | 46.00 | 32.84 | 24.64 | 21.92 | 4.55 | **25.82** |
| 20161201-20161213 | 27.27 | 9.80 | 25.76 | 7.25 | 9.59 | 3.03 | **11.61** |
| 20161213-20161225 | 50.00 | 20.41 | 43.28 | 27.54 | 19.18 | 15.15 | **26.19** |
| 20161225-20170106 | 15.38 | 26.53 | 10.61 | 30.43 | 13.89 | 10.61 | **17.91** |
| 20170106-20170118 | 0.00 | 14.29 | 16.67 | 34.29 | 12.33 | 1.52 | **15.43** |
| 20170118-20170211 | 9.09 | 33.33 | 66.67 | 30.43 | 2.70 | 3.08 | **25.89** |
| 20170211-20170223 | 0.00 | 14.00 | 28.79 | 30.43 | 12.33 | 10.61 | **18.75** |
| 20170223-20170307 | 50.00 | 24.00 | 27.69 | 18.57 | 5.56 | 5.97 | **17.16** |
| 20170307-20170319 | 41.67 | 16.00 | 27.27 | 14.49 | 26.03 | 7.58 | **19.35** |
| 20170319-20170331 | 18.18 | 15.69 | 57.58 | 18.84 | 6.76 | 0.00 | **19.64** |
| 20170331-20170412 | 9.09 | 25.49 | 65.15 | 8.70 | 0.00 | 9.23 | **20.54** |
| 20170412-20170424 | 30.77 | 48.98 | 30.30 | 15.94 | 8.45 | 18.18 | **23.05** |
| 20170424-20170506 | 0.00 | 32.65 | 15.15 | 0.00 | 4.17 | 1.52 | **8.96** |
| 20170506-20170518 | 30.77 | 44.90 | 27.27 | 38.57 | 8.33 | 12.12 | **25.30** |
| 20170518-20170530 | 30.77 | 24.49 | 19.70 | 31.43 | 27.78 | 22.41 | **25.61** |
| 20170530-20170611 | 46.15 | 16.33 | 15.15 | 18.57 | 5.48 | 8.06 | **13.81** |
| 20170611-20170623 | 9.09 | 35.29 | 13.64 | 17.39 | 10.96 | 13.95 | **17.25** |
| 20170623-20170705 | 0.00 | 44.00 | 37.88 | 27.54 | 16.44 | 29.55 | **28.98** |
| 20170705-20170717 | 9.09 | 27.45 | 30.30 | 18.84 | 0.00 | 1.54 | **14.63** |
| 20170717-20170729 | 69.23 | 22.45 | 18.18 | 20.29 | 20.55 | 12.12 | **20.54** |
| 20170729-20170810 | 23.08 | 8.16 | 16.67 | 38.57 | 2.74 | 21.21 | **18.10** |
| 20170810-20170822 | 0.00 | 16.33 | 10.45 | 21.74 | 6.85 | 7.58 | **11.90** |
| 20170822-20170903 | 0.00 | 36.73 | 37.88 | 10.14 | 11.11 | 4.55 | **18.21** |
| 20170903-20170915 | 0.00 | 19.61 | 36.36 | 27.54 | 28.77 | 26.15 | **27.16** |
| 20170915-20170927 | 41.67 | 30.61 | 17.91 | 46.38 | 23.29 | 1.52 | **24.40** |
| 20170927-20171009 | 15.38 | 20.41 | 40.91 | 25.71 | 21.92 | 10.61 | **23.74** |
| 20171009-20171021 | 18.18 | 3.92 | 34.85 | 13.04 | 23.29 | 29.23 | **21.49** |
| 20171021-20171102 | 46.15 | 36.73 | 21.21 | 27.14 | 29.73 | 43.94 | **31.95** |
| 20171102-20171114 | 30.77 | 51.02 | 46.97 | 2.86 | 5.48 | 3.03 | **20.18** |
| 20171114-20171126 | 23.08 | 20.41 | 19.70 | 2.90 | 22.54 | 13.64 | **15.87** |
| 20171126-20171208 | 45.45 | 13.73 | 12.12 | 26.09 | 23.29 | 21.54 | **20.60** |
| 20171208-20171220 | 7.69 | 24.49 | 12.12 | 36.23 | 13.70 | 7.58 | **18.15** |
| 20171220-20180101 | 8.33 | 16.00 | 16.42 | 4.35 | 12.33 | 31.82 | **15.73** |
| 20180101-20180113 | 53.85 | 8.16 | 34.85 | 24.29 | 32.43 | 17.19 | **25.60** |
| 20180113-20180125 | 23.08 | 20.41 | 24.24 | 10.00 | 4.11 | 3.03 | **12.17** |
| 20180125-20180206 | 0.00 | 13.73 | 3.03 | 30.43 | 23.29 | 28.79 | **19.64** |
| 20180206-20180218 | 7.69 | 36.73 | 37.88 | 28.99 | 23.29 | 7.58 | **25.60** |
| 20180218-20180302 | 63.64 | 7.84 | 13.64 | 36.23 | 35.14 | 12.12 | **23.44** |
| 20180302-20180314 | 45.45 | 29.41 | 15.15 | 15.94 | 8.22 | 27.69 | **19.40** |
| 20180314-20180326 | 0.00 | 24.49 | 39.39 | 5.80 | 41.10 | 10.61 | **23.58** |
| 20180326-20180407 | 15.38 | 59.18 | 45.45 | 10.14 | 16.67 | 0.00 | **23.88** |
| 20180407-20180419 | 9.09 | 33.33 | 28.79 | 5.80 | 0.00 | 5.08 | **13.33** |
| 20180419-20180501 | 33.33 | 14.29 | 42.42 | 36.23 | 5.48 | 15.15 | **23.28** |
| 20180501-20180513 | 15.38 | 46.94 | 34.85 | 40.58 | 0.00 | 6.56 | **24.17** |
| 20180513-20180525 | 33.33 | 16.33 | 40.91 | 4.29 | 8.22 | 29.17 | **19.50** |
| 20180525-20180606 | 27.27 | 21.57 | 9.09 | 20.00 | 24.32 | 4.55 | **16.27** |
| 20180606-20180618 | 9.09 | 23.53 | 9.09 | 20.29 | 9.72 | 11.86 | **14.33** |
| 20180618-20180630 | 0.00 | 55.10 | 34.85 | 26.09 | 2.74 | 9.09 | **22.62** |
| 20180630-20180712 | 23.08 | 44.90 | 28.79 | 42.03 | 0.00 | 3.03 | **22.39** |
| 20180712-20180724 | 69.23 | 18.37 | 37.88 | 30.43 | 27.40 | 25.76 | **30.06** |
| 20180724-20180805 | 54.55 | 31.37 | 22.73 | 33.33 | 20.55 | 4.55 | **23.21** |
| 20180805-20180817 | 9.09 | 17.65 | 22.73 | 23.19 | 10.81 | 1.54 | **14.88** |
| 20180817-20180829 | 50.00 | 18.00 | 10.61 | 5.80 | 35.62 | 3.03 | **16.07** |
| 20180829-20180910 | 7.69 | 53.06 | 24.24 | 15.94 | 23.94 | 25.76 | **26.35** |
| 20180910-20180922 | 9.09 | 9.80 | 28.79 | 36.23 | 13.70 | 6.06 | **19.05** |
| 20180922-20181004 | 15.38 | 28.57 | 19.70 | 14.49 | 27.40 | 10.61 | **19.64** |
| 20181004-20181016 | 16.67 | 6.00 | 15.15 | 24.29 | 14.86 | 1.52 | **13.02** |
| 20181016-20181028 | 8.33 | 16.00 | 24.24 | 35.71 | 6.76 | 6.06 | **17.46** |
| 20181028-20181109 | 46.15 | 6.12 | 27.27 | 30.00 | 15.07 | 3.03 | **18.10** |
| 20181109-20181121 | 8.33 | 38.78 | 37.88 | 39.13 | 19.18 | 22.73 | **30.15** |
| 20181121-20181203 | 41.67 | 48.00 | 12.12 | 22.86 | 6.76 | 0.00 | **17.16** |
| 20181203-20181215 | 38.46 | 26.53 | 51.52 | 24.64 | 14.08 | 1.52 | **23.95** |
| 20181215-20181227 | 27.27 | 19.61 | 34.85 | 15.94 | 4.05 | 0.00 | **14.88** |

**Table S4.** Percentage of velocity offsets removed or filtered per seasonal stack within each sub-division (%) using the 30 degree angle. The last column considers the overall of data points that have been filtered in the whole glacier area (%).