

Table 1: Detail of the individual study areas with spatial, temporal and topographic parameters with (n. acq.) indicates the number of acquisitions

| ID | Class | Group | Size<br>(H×W) | Valid<br>(%) | Ascending (n. acq.) |    |            |     |     | Descending (n. acq.) |    |            |     |     | Alt<br>(m) | Slope<br>(°) | Asp<br>(°) | Lat/Lon    |
|----|-------|-------|---------------|--------------|---------------------|----|------------|-----|-----|----------------------|----|------------|-----|-----|------------|--------------|------------|------------|
|    |       |       |               |              | Polarization        |    | Satellites |     |     | Polarization         |    | Satellites |     |     |            |              |            |            |
|    |       |       |               |              | HH                  | HV | PAZ        | TSX | TDX | HH                   | HV | PAZ        | TSX | TDX |            |              |            |            |
| 1  | ABL   | 007   | 250 × 319     | 54.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2542       | 22.4         | 311        | 45.88/6.94 |
| 2  | ABL   | 005   | 253 × 242     | 38.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2589       | 9.9          | 201        | 45.91/6.97 |
| 3  | ABL   | 011   | 435 × 571     | 46.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2668       | 13.5         | 297        | 45.99/6.98 |
| 4  | ABL   | 001   | 336 × 576     | 42.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2321       | 11.9         | 301        | 45.96/6.97 |
| 5  | ABL   | 008   | 88 × 108      | 59.9         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2382       | 18.7         | 249        | 45.91/6.91 |
| 6  | ABL   | 009   | 211 × 249     | 59.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2582       | 22.0         | 308        | 45.88/6.94 |
| 7  | ABL   | 010   | 216 × 290     | 43.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2952       | 21.1         | 212        | 45.95/7.01 |
| 8  | ACC   | 008   | 100 × 160     | 69.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3693       | 45.2         | 108        | 45.96/7.02 |
| 9  | ACC   | 002   | 220 × 568     | 48.4         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2990       | 19.8         | 226        | 45.92/7.03 |
| 10 | ACC   | 003   | 151 × 187     | 50.4         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3180       | 31.3         | 206        | 45.87/6.95 |
| 11 | ACC   | 011   | 121 × 241     | 74.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2543       | 29.5         | 325        | 45.91/6.91 |
| 12 | ACC   | 006   | 68 × 165      | 78.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2555       | 35.4         | 215        | 45.89/6.89 |
| 13 | ACC   | 004   | 208 × 439     | 57.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3130       | 14.0         | 300        | 45.98/7.00 |
| 14 | ACC   | 005   | 145 × 245     | 65.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3365       | 14.5         | 263        | 45.95/7.03 |
| 15 | ACC   | 001   | 482 × 714     | 59.4         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2770       | 24.1         | 206        | 45.88/6.99 |
| 16 | ACC   | 007   | 173 × 324     | 65.7         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3471       | 21.0         | 128        | 45.88/6.90 |
| 17 | FOR   | 007   | 412 × 623     | 45.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1576       | 34.8         | 313        | 45.96/6.92 |
| 18 | FOR   | 005   | 321 × 531     | 28.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1722       | 34.5         | 328        | 45.97/6.93 |
| 19 | FOR   | 009   | 234 × 276     | 40.4         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1669       | 28.8         | 155        | 46.03/6.91 |
| 20 | FOR   | 004   | 420 × 616     | 48.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1456       | 29.2         | 313        | 46.04/6.95 |
| 21 | FOR   | 003   | 357 × 406     | 28.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1389       | 31.6         | 299        | 45.89/6.83 |
| 22 | FOR   | 006   | 384 × 335     | 45.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1149       | 13.7         | 263        | 45.94/6.90 |
| 23 | FOR   | 001   | 121 × 242     | 61.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1314       | 12.1         | 248        | 45.98/6.94 |
| 24 | FOR   | 008   | 165 × 250     | 63.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1423       | 20.6         | 294        | 46.02/6.92 |
| 25 | FOR   | 002   | 156 × 248     | 42.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1224       | 14.0         | 336        | 45.90/6.86 |
| 26 | HAG   | 003   | 68 × 147      | 47.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2937       | 29.6         | 282        | 45.87/6.95 |
| 27 | HAG   | 004   | 48 × 73       | 62.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3494       | 50.0         | 178        | 45.88/6.89 |
| 28 | HAG   | 006   | 29 × 59       | 55.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3209       | 52.2         | 347        | 45.89/6.90 |
| 29 | HAG   | 008   | 46 × 67       | 71.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3042       | 46.2         | 343        | 45.89/6.96 |
| 30 | HAG   | 007   | 46 × 50       | 62.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3352       | 55.8         | 13         | 45.93/7.00 |
| 31 | HAG   | 009   | 36 × 55       | 66.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3180       | 50.4         | 178        | 45.88/6.89 |
| 32 | HAG   | 002   | 35 × 63       | 54.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3210       | 46.3         | 284        | 45.90/6.91 |
| 33 | ICA   | 007   | 71 × 189      | 31.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3687       | 52.4         | 222        | 45.86/6.96 |
| 34 | ICA   | 001   | 31 × 55       | 79.7         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3676       | 35.8         | 76         | 45.97/7.00 |
| 35 | ICA   | 006   | 34 × 56       | 38.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3277       | 53.4         | 288        | 45.92/7.04 |
| 36 | ICA   | 009   | 52 × 143      | 45.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3428       | 51.7         | 335        | 45.94/6.96 |
| 37 | ICA   | 011   | 122 × 88      | 27.7         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2959       | 39.6         | 327        | 45.87/6.85 |
| 38 | ICA   | 008   | 71 × 82       | 49.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3534       | 56.6         | 332        | 45.94/6.96 |
| 39 | ICA   | 004   | 161 × 177     | 30.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3376       | 39.0         | 192        | 45.93/6.99 |
| 40 | ICA   | 005   | 14 × 78       | 52.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 3407       | 18.2         | 306        | 45.95/7.03 |
| 41 | ICA   | 002   | 54 × 66       | 57.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2828       | 44.9         | 349        | 45.90/6.91 |
| 42 | LAC   | 004   | 40 × 39       | 73.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1040       | 1.0          | 224        | 45.93/6.88 |
| 43 | LAC   | 009   | 21 × 26       | 68.9         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2213       | 17.7         | 153        | 45.98/6.90 |
| 44 | LAC   | 008   | 16 × 33       | 70.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2176       | 12.6         | 114        | 45.98/6.90 |
| 45 | LAC   | 002   | 54 × 68       | 51.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2359       | 12.1         | 145        | 45.98/6.89 |
| 46 | LAC   | 005   | 44 × 45       | 51.9         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1053       | 0.6          | 223        | 45.93/6.88 |
| 47 | LAC   | 006   | 51 × 61       | 25.4         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1069       | 0.8          | 203        | 45.94/6.89 |
| 48 | LAC   | 001   | 103 × 123     | 37.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2280       | 10.1         | 247        | 45.96/6.85 |
| 49 | LAC   | 003   | 16 × 38       | 70.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2140       | 12.2         | 152        | 45.99/6.90 |
| 50 | LAC   | 007   | 19 × 42       | 69.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2458       | 9.4          | 153        | 45.99/6.89 |
| 51 | PLA   | 004   | 180 × 483     | 23.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1473       | 8.4          | 238        | 46.00/6.95 |
| 52 | PLA   | 003   | 147 × 207     | 54.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1973       | 19.7         | 163        | 46.04/6.92 |
| 53 | PLA   | 001   | 68 × 212      | 70.7         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1942       | 26.6         | 257        | 45.96/6.93 |
| 54 | PLA   | 005   | 439 × 508     | 17.7         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1883       | 19.1         | 156        | 45.98/6.83 |
| 55 | PLA   | 009   | 114 × 127     | 69.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1887       | 22.4         | 325        | 45.99/6.95 |
| 56 | PLA   | 008   | 150 × 232     | 19.2         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1216       | 9.9          | 293        | 45.97/6.92 |
| 57 | PLA   | 002   | 161 × 182     | 51.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2045       | 16.5         | 98         | 46.02/6.95 |
| 58 | PLA   | 006   | 256 × 366     | 14.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1932       | 32.0         | 201        | 45.85/6.76 |
| 59 | PLA   | 007   | 101 × 147     | 78.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2151       | 15.6         | 281        | 46.02/6.97 |
| 60 | ROC   | 004   | 128 × 212     | 75.3         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2693       | 25.6         | 162        | 45.91/6.96 |
| 61 | ROC   | 007   | 86 × 104      | 49.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2191       | 32.2         | 325        | 45.89/6.87 |
| 62 | ROC   | 008   | 164 × 116     | 53.5         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 1966       | 30.9         | 173        | 45.95/6.87 |
| 63 | ROC   | 002   | 173 × 215     | 32.6         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2346       | 29.9         | 193        | 45.98/6.88 |
| 64 | ROC   | 001   | 169 × 203     | 46.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2334       | 31.6         | 329        | 46.00/6.89 |
| 65 | ROC   | 006   | 201 × 250     | 60.8         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2535       | 29.3         | 235        | 45.97/6.98 |
| 66 | ROC   | 009   | 133 × 301     | 58.0         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2276       | 19.2         | 272        | 45.94/6.94 |
| 67 | ROC   | 003   | 116 × 475     | 45.1         | 82                  | 21 | 73         | 19  | 11  | 95                   | 44 | 96         | 43  | 0   | 2401       | 23.2         | 135        | 45.99/6.90 |
| 68 | ROC   | 005   |               |              |                     |    |            |     |     |                      |    |            |     |     |            |              |            |            |