



INFORME ANUAL N°4

Plan de Manejo Biótico

Proyecto “Modificaciones y Mejoramiento del Sistema de Pozas de Evaporación Solar en el Salar de Atacama (RCA RE-N°21/2016)”

ANEXO ÁREA DE LAGUNAS



Región de Antofagasta

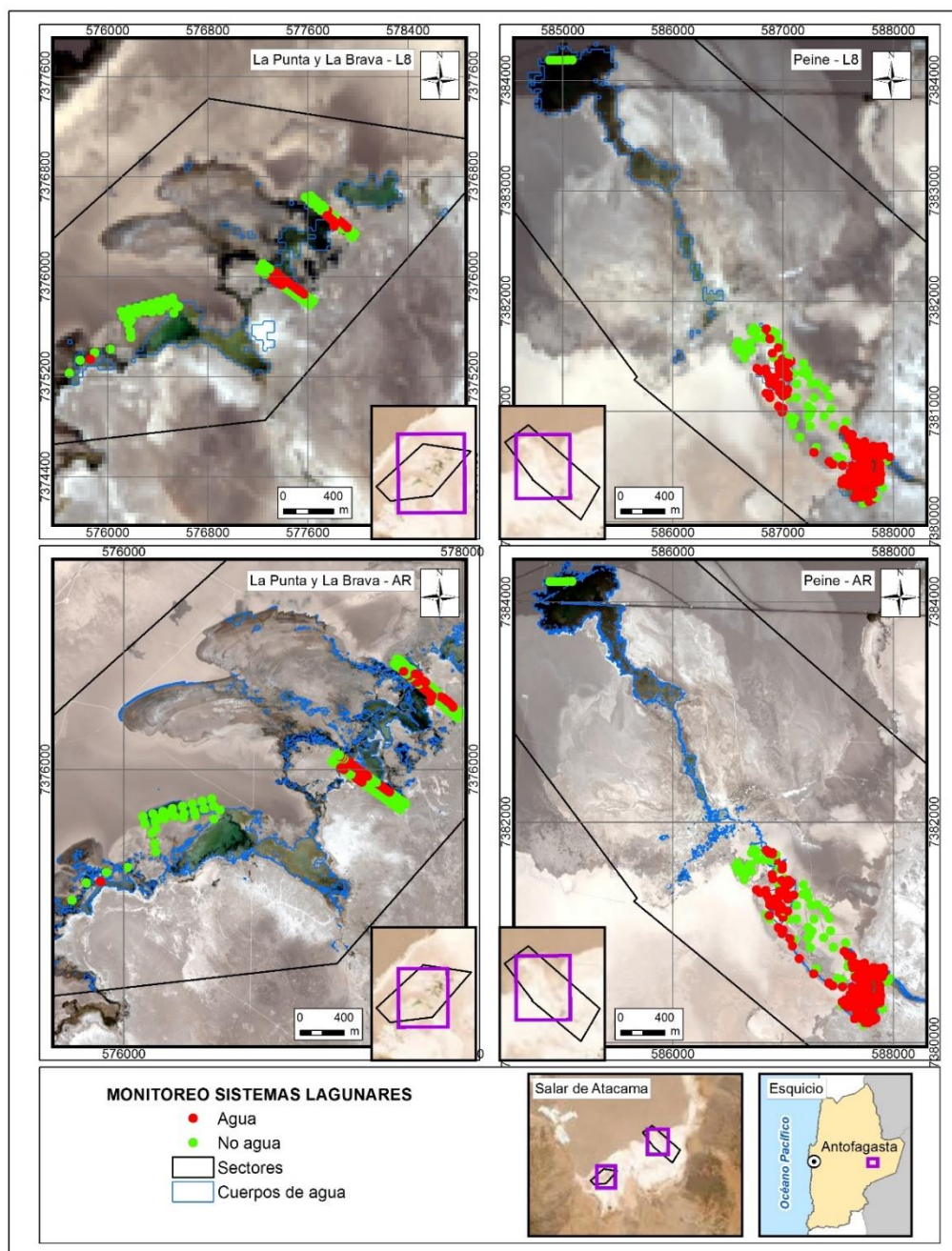
Febrero de 2019

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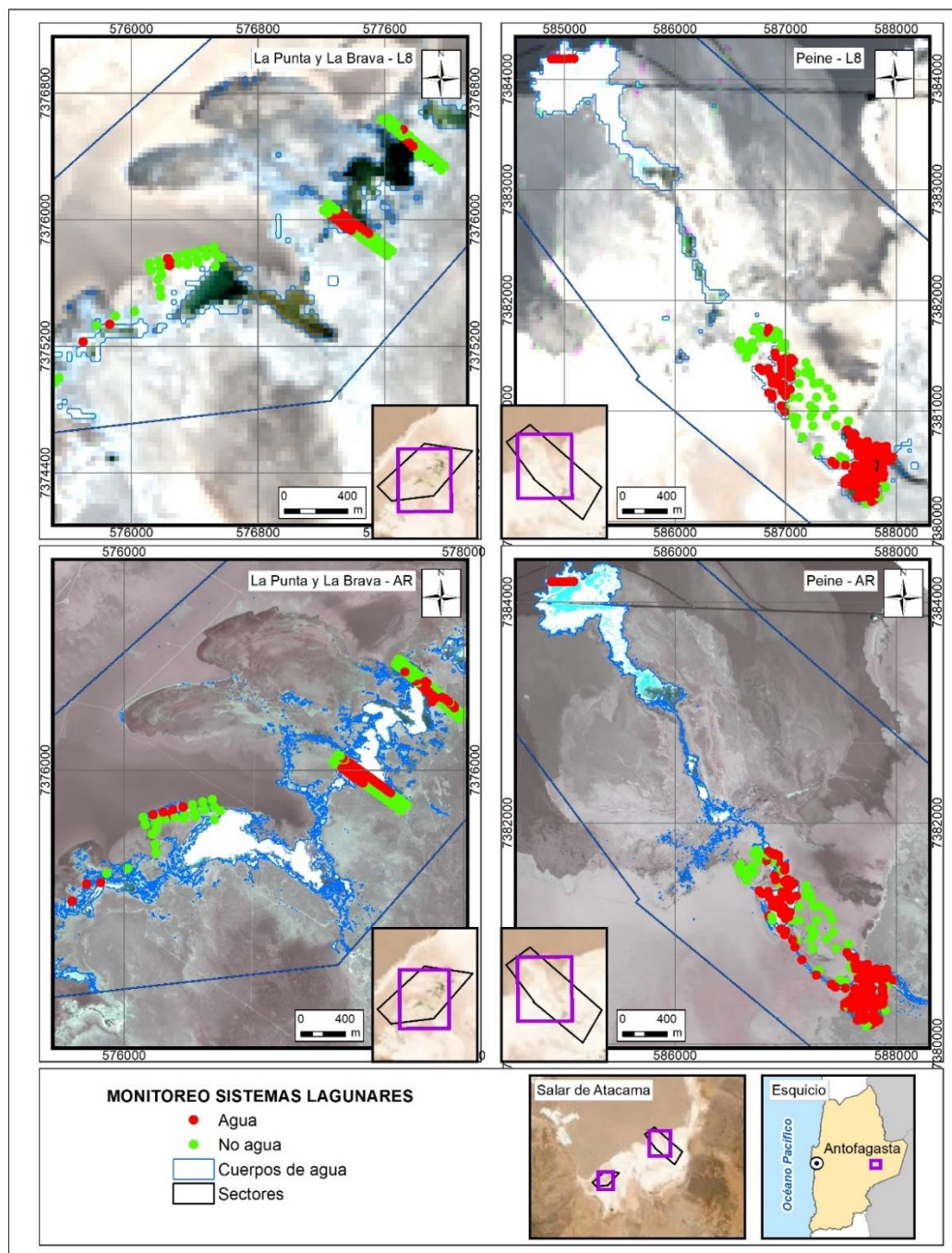
1 ANEXO ÁREA DE LAGUNAS

1.1 Distribución de puntos de validación en terreno para imágenes LANDSAT 8 y PLEAIDES 1-A, Sectores La Punta y Las Brava y Peine, invierno 2019.



Fuente: Elaboración propia

1.2 Distribución de puntos de validación en terreno para imágenes LANDSAT 8 y PLEAIDES 1-A, Sectores La Punta y Las Brava y Peine, verano 2019.



Fuente: Elaboración propia

1.3 Coordenadas de puntos de validación en terreno

1.3.1 Invierno 2019

1.3.1.1 Alta resolución (Pleiades 1A)

1.3.1.1.1 Sector La Punta y La Brava

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-001 | 577.635 | 7.375.763 | NA | NA |
| PB-002 | 577.630 | 7.375.768 | NA | NA |
| PB-003 | 577.624 | 7.375.773 | NA | NA |
| PB-004 | 577.617 | 7.375.777 | NA | NA |
| PB-005 | 577.611 | 7.375.782 | NA | NA |
| PB-006 | 577.604 | 7.375.786 | NA | NA |
| PB-007 | 577.598 | 7.375.791 | NA | NA |
| PB-008 | 577.591 | 7.375.796 | NA | NA |
| PB-009 | 577.667 | 7.375.796 | NA | NA |
| PB-010 | 577.659 | 7.375.800 | NA | NA |
| PB-011 | 577.585 | 7.375.800 | NA | NA |
| PB-012 | 577.578 | 7.375.805 | NA | NA |
| PB-013 | 577.653 | 7.375.805 | NA | NA |
| PB-014 | 577.647 | 7.375.810 | NA | NA |
| PB-015 | 577.572 | 7.375.810 | NA | NA |
| PB-016 | 577.565 | 7.375.814 | NA | NA |
| PB-017 | 577.640 | 7.375.815 | NA | NA |
| PB-018 | 577.559 | 7.375.819 | NA | NA |
| PB-019 | 577.636 | 7.375.819 | NA | NA |
| PB-020 | 577.552 | 7.375.824 | NA | NA |
| PB-021 | 577.630 | 7.375.824 | NA | NA |
| PB-022 | 577.623 | 7.375.826 | A | NA |
| PB-023 | 577.546 | 7.375.828 | NA | NA |
| PB-024 | 577.622 | 7.375.832 | NA | NA |
| PB-025 | 577.539 | 7.375.833 | NA | NA |
| PB-026 | 577.617 | 7.375.833 | A | NA |
| PB-027 | 577.533 | 7.375.838 | NA | NA |
| PB-028 | 577.611 | 7.375.838 | A | NA |
| PB-029 | 577.526 | 7.375.842 | NA | NA |
| PB-030 | 577.604 | 7.375.843 | A | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-031 | 577.520 | 7.375.847 | NA | NA |
| PB-032 | 577.598 | 7.375.848 | A | NA |
| PB-033 | 577.513 | 7.375.851 | NA | NA |
| PB-034 | 577.591 | 7.375.852 | A | NA |
| PB-035 | 577.507 | 7.375.856 | NA | NA |
| PB-036 | 577.585 | 7.375.857 | NA | NA |
| PB-037 | 577.500 | 7.375.861 | NA | NA |
| PB-038 | 577.578 | 7.375.862 | NA | NA |
| PB-039 | 577.494 | 7.375.865 | NA | NA |
| PB-040 | 577.572 | 7.375.867 | A | NA |
| PB-041 | 577.487 | 7.375.870 | NA | NA |
| PB-042 | 577.565 | 7.375.871 | A | A |
| PB-043 | 577.481 | 7.375.875 | NA | NA |
| PB-044 | 577.559 | 7.375.876 | A | A |
| PB-045 | 577.474 | 7.375.879 | NA | NA |
| PB-046 | 577.552 | 7.375.881 | A | A |
| PB-047 | 577.467 | 7.375.884 | NA | NA |
| PB-048 | 577.546 | 7.375.885 | A | NA |
| PB-049 | 577.461 | 7.375.889 | NA | NA |
| PB-050 | 577.540 | 7.375.890 | A | NA |
| PB-051 | 577.454 | 7.375.893 | NA | NA |
| PB-052 | 577.533 | 7.375.895 | A | A |
| PB-053 | 577.448 | 7.375.898 | NA | NA |
| PB-054 | 577.527 | 7.375.900 | A | A |
| PB-055 | 577.441 | 7.375.903 | NA | NA |
| PB-056 | 577.520 | 7.375.904 | A | A |
| PB-057 | 577.435 | 7.375.907 | NA | NA |
| PB-058 | 577.514 | 7.375.909 | A | A |
| PB-059 | 577.428 | 7.375.912 | NA | NA |
| PB-060 | 577.507 | 7.375.914 | A | A |
| PB-061 | 577.422 | 7.375.917 | NA | NA |
| PB-062 | 577.501 | 7.375.918 | A | A |
| PB-063 | 577.414 | 7.375.922 | NA | NA |
| PB-064 | 577.494 | 7.375.923 | A | NA |
| PB-065 | 577.410 | 7.375.925 | A | A |
| PB-066 | 577.488 | 7.375.928 | A | NA |
| PB-067 | 577.402 | 7.375.930 | A | A |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-068 | 577.481 | 7.375.933 | A | NA |
| PB-069 | 577.396 | 7.375.935 | A | A |
| PB-070 | 577.475 | 7.375.937 | A | NA |
| PB-071 | 577.389 | 7.375.940 | A | A |
| PB-072 | 577.468 | 7.375.942 | A | NA |
| PB-073 | 577.383 | 7.375.944 | A | A |
| PB-074 | 577.462 | 7.375.947 | NA | NA |
| PB-075 | 577.376 | 7.375.949 | A | A |
| PB-076 | 577.456 | 7.375.952 | NA | NA |
| PB-077 | 577.363 | 7.375.953 | NA | NA |
| PB-078 | 577.370 | 7.375.954 | A | A |
| PB-079 | 577.449 | 7.375.956 | NA | NA |
| PB-080 | 577.359 | 7.375.958 | NA | NA |
| PB-081 | 577.443 | 7.375.961 | A | A |
| PB-082 | 577.355 | 7.375.962 | NA | NA |
| PB-083 | 577.348 | 7.375.966 | A | NA |
| PB-084 | 577.436 | 7.375.966 | A | A |
| PB-085 | 577.430 | 7.375.970 | A | A |
| PB-086 | 577.344 | 7.375.972 | A | NA |
| PB-087 | 577.423 | 7.375.975 | A | A |
| PB-088 | 577.337 | 7.375.977 | A | A |
| PB-089 | 577.417 | 7.375.980 | A | A |
| PB-090 | 577.331 | 7.375.982 | A | NA |
| PB-091 | 577.410 | 7.375.985 | A | A |
| PB-092 | 577.323 | 7.375.986 | NA | NA |
| PB-093 | 577.319 | 7.375.988 | A | NA |
| PB-094 | 577.404 | 7.375.989 | A | A |
| PB-095 | 577.313 | 7.375.992 | NA | NA |
| PB-096 | 577.397 | 7.375.994 | A | A |
| PB-097 | 577.311 | 7.375.996 | A | A |
| PB-098 | 577.391 | 7.375.999 | A | A |
| PB-099 | 577.305 | 7.376.000 | A | A |
| PB-100 | 577.385 | 7.376.004 | A | A |
| PB-101 | 577.298 | 7.376.005 | A | A |
| PB-102 | 577.378 | 7.376.008 | A | A |
| PB-103 | 577.290 | 7.376.009 | A | NA |
| PB-104 | 577.283 | 7.376.011 | A | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-105 | 577.372 | 7.376.013 | A | A |
| PB-106 | 577.279 | 7.376.018 | A | NA |
| PB-107 | 577.365 | 7.376.018 | A | A |
| PB-108 | 577.274 | 7.376.019 | NA | NA |
| PB-109 | 577.359 | 7.376.022 | A | A |
| PB-110 | 577.271 | 7.376.025 | NA | NA |
| PB-111 | 577.352 | 7.376.027 | A | A |
| PB-112 | 577.266 | 7.376.028 | NA | NA |
| PB-113 | 577.346 | 7.376.032 | A | A |
| PB-114 | 577.261 | 7.376.033 | NA | NA |
| PB-115 | 577.256 | 7.376.036 | NA | NA |
| PB-116 | 577.339 | 7.376.037 | A | A |
| PB-117 | 577.250 | 7.376.039 | NA | NA |
| PB-118 | 577.333 | 7.376.041 | A | A |
| PB-119 | 577.244 | 7.376.043 | NA | NA |
| PB-120 | 577.326 | 7.376.046 | A | A |
| PB-121 | 577.238 | 7.376.046 | NA | NA |
| PB-122 | 577.232 | 7.376.051 | NA | NA |
| PB-123 | 577.320 | 7.376.051 | A | A |
| PB-124 | 577.314 | 7.376.055 | A | A |
| PB-125 | 577.307 | 7.376.060 | A | NA |
| PB-126 | 577.301 | 7.376.065 | NA | NA |
| PB-127 | 577.294 | 7.376.070 | A | A |
| PB-128 | 577.288 | 7.376.074 | A | NA |
| PB-129 | 577.281 | 7.376.079 | A | NA |
| PB-130 | 577.275 | 7.376.084 | A | NA |
| PB-131 | 577.269 | 7.376.086 | NA | NA |
| PB-132 | 577.261 | 7.376.093 | NA | NA |
| PB-133 | 577.976 | 7.376.305 | NA | NA |
| PB-134 | 577.970 | 7.376.311 | NA | NA |
| PB-135 | 577.965 | 7.376.317 | NA | NA |
| PB-136 | 577.959 | 7.376.322 | NA | NA |
| PB-137 | 577.955 | 7.376.328 | NA | NA |
| PB-138 | 577.996 | 7.376.331 | NA | NA |
| PB-139 | 577.950 | 7.376.332 | NA | NA |
| PB-140 | 577.943 | 7.376.335 | NA | NA |
| PB-141 | 577.990 | 7.376.336 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-142 | 577.936 | 7.376.339 | NA | NA |
| PB-143 | 577.984 | 7.376.341 | NA | NA |
| PB-144 | 577.932 | 7.376.342 | NA | NA |
| PB-145 | 577.979 | 7.376.346 | NA | NA |
| PB-146 | 577.921 | 7.376.348 | NA | NA |
| PB-147 | 577.973 | 7.376.351 | NA | NA |
| PB-148 | 577.915 | 7.376.352 | NA | NA |
| PB-149 | 577.967 | 7.376.355 | NA | NA |
| PB-150 | 577.962 | 7.376.360 | NA | NA |
| PB-151 | 577.906 | 7.376.361 | NA | NA |
| PB-152 | 577.957 | 7.376.363 | NA | NA |
| PB-153 | 577.902 | 7.376.367 | NA | NA |
| PB-154 | 577.947 | 7.376.369 | NA | NA |
| PB-155 | 577.898 | 7.376.373 | NA | NA |
| PB-156 | 577.894 | 7.376.377 | NA | NA |
| PB-157 | 577.943 | 7.376.378 | A | A |
| PB-158 | 577.889 | 7.376.382 | NA | NA |
| PB-159 | 577.937 | 7.376.383 | A | A |
| PB-160 | 577.884 | 7.376.387 | NA | NA |
| PB-161 | 577.931 | 7.376.388 | A | A |
| PB-162 | 577.879 | 7.376.390 | NA | NA |
| PB-163 | 577.925 | 7.376.392 | A | NA |
| PB-164 | 577.873 | 7.376.395 | NA | NA |
| PB-165 | 577.923 | 7.376.397 | NA | NA |
| PB-166 | 577.867 | 7.376.399 | NA | NA |
| PB-167 | 577.919 | 7.376.400 | A | A |
| PB-168 | 577.861 | 7.376.402 | NA | NA |
| PB-169 | 577.913 | 7.376.404 | A | A |
| PB-170 | 577.856 | 7.376.406 | NA | NA |
| PB-171 | 577.907 | 7.376.409 | A | A |
| PB-172 | 577.850 | 7.376.409 | NA | NA |
| PB-173 | 577.845 | 7.376.413 | NA | NA |
| PB-174 | 577.901 | 7.376.414 | A | A |
| PB-175 | 577.839 | 7.376.418 | NA | NA |
| PB-176 | 577.895 | 7.376.419 | A | A |
| PB-177 | 577.835 | 7.376.424 | NA | NA |
| PB-178 | 577.889 | 7.376.425 | A | A |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-179 | 577.832 | 7.376.427 | A | NA |
| PB-180 | 577.883 | 7.376.430 | A | A |
| PB-181 | 577.874 | 7.376.431 | A | NA |
| PB-182 | 577.830 | 7.376.431 | A | NA |
| PB-183 | 577.877 | 7.376.435 | NA | NA |
| PB-184 | 577.824 | 7.376.437 | A | A |
| PB-185 | 577.871 | 7.376.439 | NA | NA |
| PB-186 | 577.818 | 7.376.442 | A | A |
| PB-187 | 577.866 | 7.376.443 | NA | NA |
| PB-188 | 577.812 | 7.376.447 | A | A |
| PB-189 | 577.860 | 7.376.447 | NA | NA |
| PB-190 | 577.855 | 7.376.451 | NA | NA |
| PB-191 | 577.806 | 7.376.452 | A | A |
| PB-192 | 577.851 | 7.376.456 | NA | NA |
| PB-193 | 577.800 | 7.376.457 | A | A |
| PB-194 | 577.846 | 7.376.461 | NA | NA |
| PB-195 | 577.794 | 7.376.463 | A | A |
| PB-196 | 577.841 | 7.376.466 | NA | NA |
| PB-197 | 577.788 | 7.376.468 | A | A |
| PB-198 | 577.835 | 7.376.471 | NA | NA |
| PB-199 | 577.782 | 7.376.473 | A | A |
| PB-200 | 577.830 | 7.376.476 | NA | NA |
| PB-201 | 577.775 | 7.376.478 | A | A |
| PB-202 | 577.825 | 7.376.481 | NA | NA |
| PB-203 | 577.769 | 7.376.483 | A | A |
| PB-204 | 577.820 | 7.376.486 | NA | NA |
| PB-205 | 577.763 | 7.376.489 | A | A |
| PB-206 | 577.814 | 7.376.489 | NA | NA |
| PB-207 | 577.807 | 7.376.494 | NA | NA |
| PB-208 | 577.757 | 7.376.494 | A | A |
| PB-209 | 577.751 | 7.376.499 | A | NA |
| PB-210 | 577.801 | 7.376.499 | NA | NA |
| PB-211 | 577.745 | 7.376.504 | A | NA |
| PB-212 | 577.795 | 7.376.504 | NA | NA |
| PB-213 | 577.739 | 7.376.509 | A | NA |
| PB-214 | 577.733 | 7.376.515 | NA | NA |
| PB-215 | 577.786 | 7.376.515 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-216 | 577.780 | 7.376.519 | A | A |
| PB-217 | 577.727 | 7.376.520 | A | A |
| PB-218 | 577.774 | 7.376.524 | NA | NA |
| PB-219 | 577.721 | 7.376.525 | A | A |
| PB-220 | 577.768 | 7.376.529 | A | NA |
| PB-221 | 577.714 | 7.376.530 | A | NA |
| PB-222 | 577.762 | 7.376.534 | A | A |
| PB-223 | 577.707 | 7.376.535 | NA | NA |
| PB-224 | 577.756 | 7.376.540 | A | A |
| PB-225 | 577.702 | 7.376.540 | NA | NA |
| PB-226 | 577.749 | 7.376.545 | A | A |
| PB-227 | 577.697 | 7.376.545 | NA | NA |
| PB-228 | 577.694 | 7.376.548 | NA | NA |
| PB-229 | 577.746 | 7.376.553 | A | NA |
| PB-230 | 577.686 | 7.376.554 | A | NA |
| PB-231 | 577.740 | 7.376.557 | A | NA |
| PB-232 | 577.680 | 7.376.560 | A | NA |
| PB-233 | 577.731 | 7.376.561 | NA | NA |
| PB-234 | 577.736 | 7.376.562 | A | NA |
| PB-235 | 577.674 | 7.376.564 | NA | NA |
| PB-236 | 577.725 | 7.376.566 | A | A |
| PB-237 | 577.669 | 7.376.567 | A | NA |
| PB-238 | 577.663 | 7.376.570 | A | NA |
| PB-239 | 577.719 | 7.376.571 | A | NA |
| PB-240 | 577.658 | 7.376.575 | NA | NA |
| PB-241 | 577.717 | 7.376.576 | NA | NA |
| PB-242 | 577.655 | 7.376.580 | A | A |
| PB-243 | 577.712 | 7.376.580 | NA | NA |
| PB-244 | 577.648 | 7.376.586 | A | A |
| PB-245 | 577.708 | 7.376.587 | NA | NA |
| PB-246 | 577.703 | 7.376.590 | NA | NA |
| PB-247 | 577.643 | 7.376.592 | NA | NA |
| PB-248 | 577.695 | 7.376.592 | NA | NA |
| PB-249 | 577.690 | 7.376.594 | NA | NA |
| PB-250 | 577.638 | 7.376.597 | NA | NA |
| PB-251 | 577.684 | 7.376.598 | NA | NA |
| PB-252 | 577.633 | 7.376.602 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-253 | 577.679 | 7.376.603 | NA | NA |
| PB-254 | 577.627 | 7.376.605 | NA | NA |
| PB-255 | 577.674 | 7.376.608 | NA | NA |
| PB-256 | 577.621 | 7.376.608 | NA | NA |
| PB-257 | 577.615 | 7.376.611 | NA | NA |
| PB-258 | 577.669 | 7.376.612 | NA | NA |
| PB-259 | 577.610 | 7.376.616 | NA | NA |
| PB-260 | 577.664 | 7.376.617 | NA | NA |
| PB-261 | 577.606 | 7.376.620 | NA | NA |
| PB-262 | 577.659 | 7.376.622 | NA | NA |
| PB-263 | 577.600 | 7.376.626 | NA | NA |
| PB-264 | 577.655 | 7.376.627 | NA | NA |
| PB-265 | 577.650 | 7.376.632 | NA | NA |
| PB-266 | 577.644 | 7.376.638 | NA | NA |
| PB-267 | 577.639 | 7.376.644 | NA | NA |
| PB-268 | 577.633 | 7.376.647 | NA | NA |
| PB-269 | 577.623 | 7.376.653 | NA | NA |
| PB-270 | 577.617 | 7.376.656 | NA | NA |
| PB-VC-001 | 575.464 | 7.374.935 | NA | NA |
| PB-VC-002 | 575.517 | 7.374.971 | A | A |
| PB-VC-003 | 575.544 | 7.375.002 | A | A |
| PB-VC-004 | 575.697 | 7.375.228 | A | A |
| PB-VC-005 | 575.782 | 7.375.331 | A | A |
| PB-VC-006 | 575.864 | 7.375.339 | A | A |
| PB-VC-007 | 575.900 | 7.375.393 | A | NA |
| PB-VC-008 | 576.022 | 7.375.421 | NA | NA |
| PB-VC-009 | 576.190 | 7.375.516 | NA | NA |
| PB-VC-010 | 576.184 | 7.375.563 | A | NA |
| PB-VC-011 | 576.168 | 7.375.624 | NA | NA |
| PB-VC-012 | 576.192 | 7.375.651 | NA | NA |
| PB-VC-013 | 576.127 | 7.375.679 | NA | NA |
| PB-VC-014 | 576.185 | 7.375.694 | A | NA |
| PB-VC-015 | 576.533 | 7.375.709 | A | A |
| PB-VC-016 | 576.243 | 7.375.709 | NA | NA |
| PB-VC-017 | 576.208 | 7.375.713 | A | NA |
| PB-VC-018 | 576.355 | 7.375.716 | A | NA |
| PB-VC-019 | 576.116 | 7.375.724 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PB-VC-020 | 576.301 | 7.375.724 | NA | NA |
| PB-VC-021 | 576.424 | 7.375.729 | A | NA |
| PB-VC-022 | 576.174 | 7.375.739 | A | A |
| PB-VC-023 | 576.359 | 7.375.739 | A | NA |
| PB-VC-024 | 576.273 | 7.375.741 | A | NA |
| PB-VC-025 | 576.232 | 7.375.754 | A | A |
| PB-VC-026 | 576.418 | 7.375.754 | A | A |
| PB-VC-027 | 576.571 | 7.375.761 | A | A |
| PB-VC-028 | 576.290 | 7.375.769 | A | A |
| PB-VC-029 | 576.476 | 7.375.770 | A | A |
| PB-VC-030 | 576.348 | 7.375.784 | A | A |
| PB-VC-031 | 576.534 | 7.375.785 | A | A |
| PB-VC-032 | 576.406 | 7.375.799 | NA | NA |
| PB-VC-033 | 576.464 | 7.375.814 | NA | NA |
| PB-VC-034 | 576.522 | 7.375.829 | NA | NA |
| PB-VC-035 | 577.813 | 7.376.403 | A | A |

1.3.1.1.2 Sector Peine

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-001 | 587.730 | 7.380.165 | NA | NA |
| PE-002 | 587.778 | 7.380.181 | A | A |
| PE-003 | 587.747 | 7.380.183 | NA | NA |
| PE-004 | 587.817 | 7.380.200 | A | A |
| PE-005 | 587.651 | 7.380.217 | NA | NA |
| PE-006 | 587.711 | 7.380.219 | A | A |
| PE-007 | 587.845 | 7.380.220 | A | A |
| PE-008 | 587.792 | 7.380.225 | A | A |
| PE-009 | 587.763 | 7.380.246 | A | A |
| PE-010 | 587.813 | 7.380.249 | A | A |
| PE-011 | 587.710 | 7.380.267 | A | A |
| PE-012 | 587.670 | 7.380.282 | A | A |
| PE-013 | 587.798 | 7.380.284 | A | A |
| PE-014 | 587.903 | 7.380.306 | NA | NA |
| PE-015 | 587.599 | 7.380.321 | A | A |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-016 | 587.809 | 7.380.329 | A | A |
| PE-017 | 587.725 | 7.380.332 | A | A |
| PE-018 | 587.535 | 7.380.337 | A | NA |
| PE-019 | 587.670 | 7.380.340 | A | A |
| PE-020 | 587.559 | 7.380.341 | NA | NA |
| PE-021 | 587.636 | 7.380.344 | A | A |
| PE-022 | 587.780 | 7.380.350 | A | A |
| PE-023 | 587.848 | 7.380.353 | A | A |
| PE-024 | 587.598 | 7.380.358 | A | A |
| PE-025 | 587.878 | 7.380.361 | A | A |
| PE-026 | 587.740 | 7.380.365 | A | A |
| PE-027 | 587.539 | 7.380.369 | A | NA |
| PE-028 | 587.668 | 7.380.371 | A | A |
| PE-029 | 587.817 | 7.380.371 | A | A |
| PE-030 | 587.771 | 7.380.381 | A | A |
| PE-031 | 587.616 | 7.380.388 | A | A |
| PE-032 | 587.567 | 7.380.390 | A | A |
| PE-033 | 587.882 | 7.380.394 | A | A |
| PE-034 | 587.693 | 7.380.397 | A | A |
| PE-035 | 587.728 | 7.380.399 | A | A |
| PE-036 | 587.824 | 7.380.404 | A | A |
| PE-037 | 587.856 | 7.380.419 | A | A |
| PE-038 | 587.638 | 7.380.419 | A | A |
| PE-039 | 587.887 | 7.380.429 | A | A |
| PE-040 | 587.790 | 7.380.430 | A | A |
| PE-041 | 587.670 | 7.380.432 | A | A |
| PE-042 | 587.710 | 7.380.434 | A | A |
| PE-043 | 587.610 | 7.380.438 | A | A |
| PE-044 | 587.750 | 7.380.445 | A | A |
| PE-045 | 587.657 | 7.380.459 | A | A |
| PE-046 | 587.701 | 7.380.468 | A | A |
| PE-047 | 587.878 | 7.380.472 | A | A |
| PE-048 | 587.742 | 7.380.478 | A | A |
| PE-049 | 587.698 | 7.380.502 | A | A |
| PE-050 | 587.630 | 7.380.505 | A | A |
| PE-051 | 587.542 | 7.380.506 | A | A |
| PE-052 | 587.787 | 7.380.507 | A | A |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-053 | 587.880 | 7.380.517 | A | A |
| PE-054 | 587.452 | 7.380.517 | A | A |
| PE-055 | 587.756 | 7.380.521 | A | A |
| PE-056 | 587.705 | 7.380.542 | A | A |
| PE-057 | 587.418 | 7.380.542 | A | A |
| PE-058 | 587.941 | 7.380.552 | NA | NA |
| PE-059 | 587.538 | 7.380.562 | NA | NA |
| PE-060 | 587.718 | 7.380.577 | A | A |
| PE-061 | 587.770 | 7.380.577 | A | A |
| PE-062 | 587.973 | 7.380.581 | A | A |
| PE-063 | 587.859 | 7.380.583 | A | A |
| PE-064 | 587.495 | 7.380.584 | NA | NA |
| PE-065 | 587.799 | 7.380.592 | A | A |
| PE-066 | 587.656 | 7.380.594 | A | A |
| PE-067 | 587.900 | 7.380.596 | A | A |
| PE-068 | 587.742 | 7.380.599 | A | A |
| PE-069 | 587.829 | 7.380.600 | A | A |
| PE-070 | 587.782 | 7.380.621 | A | A |
| PE-071 | 587.281 | 7.380.627 | A | A |
| PE-072 | 587.653 | 7.380.627 | NA | NA |
| PE-073 | 587.748 | 7.380.629 | A | A |
| PE-074 | 587.688 | 7.380.630 | A | A |
| PE-075 | 587.916 | 7.380.633 | A | A |
| PE-076 | 587.860 | 7.380.643 | A | A |
| PE-077 | 587.801 | 7.380.649 | A | A |
| PE-078 | 587.765 | 7.380.658 | A | A |
| PE-079 | 587.716 | 7.380.659 | A | A |
| PE-080 | 587.302 | 7.380.668 | NA | NA |
| PE-081 | 587.876 | 7.380.671 | A | A |
| PE-082 | 587.913 | 7.380.678 | A | A |
| PE-083 | 587.671 | 7.380.681 | A | A |
| PE-084 | 587.822 | 7.380.682 | A | A |
| PE-085 | 587.636 | 7.380.682 | A | A |
| PE-086 | 587.748 | 7.380.689 | A | A |
| PE-087 | 587.588 | 7.380.690 | NA | NA |
| PE-088 | 587.704 | 7.380.707 | A | A |
| PE-089 | 587.626 | 7.380.718 | A | A |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-090 | 587.658 | 7.380.719 | A | A |
| PE-091 | 587.741 | 7.380.722 | A | A |
| PE-092 | 587.601 | 7.380.738 | NA | NA |
| PE-093 | 587.150 | 7.380.764 | A | A |
| PE-094 | 587.628 | 7.380.786 | A | A |
| PE-095 | 587.589 | 7.380.792 | A | A |
| PE-096 | 587.557 | 7.380.828 | A | A |
| PE-097 | 587.249 | 7.380.862 | NA | NA |
| PE-098 | 587.458 | 7.380.867 | NA | NA |
| PE-099 | 587.087 | 7.380.877 | A | A |
| PE-100 | 587.569 | 7.380.906 | NA | NA |
| PE-101 | 587.104 | 7.380.935 | NA | NA |
| PE-102 | 587.065 | 7.380.943 | A | A |
| PE-103 | 587.227 | 7.380.947 | NA | NA |
| PE-104 | 587.371 | 7.380.954 | NA | NA |
| PE-105 | 587.247 | 7.380.975 | NA | NA |
| PE-106 | 586.993 | 7.380.991 | A | NA |
| PE-107 | 587.264 | 7.381.014 | NA | NA |
| PE-108 | 587.434 | 7.381.015 | NA | NA |
| PE-109 | 587.001 | 7.381.021 | A | A |
| PE-110 | 586.960 | 7.381.042 | A | A |
| PE-111 | 587.227 | 7.381.047 | NA | NA |
| PE-112 | 587.052 | 7.381.121 | NA | NA |
| PE-113 | 587.124 | 7.381.121 | NA | NA |
| PE-114 | 587.283 | 7.381.122 | NA | NA |
| PE-115 | 586.881 | 7.381.122 | NA | NA |
| PE-116 | 587.419 | 7.381.129 | NA | NA |
| PE-117 | 587.001 | 7.381.136 | A | A |
| PE-118 | 587.031 | 7.381.153 | A | NA |
| PE-119 | 586.877 | 7.381.154 | A | NA |
| PE-120 | 586.848 | 7.381.163 | A | NA |
| PE-121 | 587.014 | 7.381.167 | A | NA |
| PE-122 | 586.966 | 7.381.179 | A | A |
| PE-123 | 587.000 | 7.381.186 | A | NA |
| PE-124 | 587.009 | 7.381.193 | A | NA |
| PE-125 | 587.041 | 7.381.194 | A | A |
| PE-126 | 587.382 | 7.381.200 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-127 | 586.980 | 7.381.209 | A | A |
| PE-128 | 586.988 | 7.381.232 | A | NA |
| PE-129 | 586.922 | 7.381.237 | A | A |
| PE-130 | 586.979 | 7.381.241 | A | NA |
| PE-131 | 587.124 | 7.381.247 | NA | NA |
| PE-132 | 587.256 | 7.381.248 | NA | NA |
| PE-133 | 586.880 | 7.381.250 | A | A |
| PE-134 | 587.314 | 7.381.251 | NA | NA |
| PE-135 | 586.951 | 7.381.288 | A | A |
| PE-136 | 586.876 | 7.381.296 | A | A |
| PE-137 | 587.046 | 7.381.303 | A | A |
| PE-138 | 586.930 | 7.381.305 | A | A |
| PE-139 | 587.229 | 7.381.320 | NA | NA |
| PE-140 | 586.860 | 7.381.329 | A | A |
| PE-141 | 587.048 | 7.381.335 | A | A |
| PE-142 | 586.991 | 7.381.338 | A | A |
| PE-143 | 587.099 | 7.381.340 | A | NA |
| PE-144 | 587.179 | 7.381.345 | NA | NA |
| PE-145 | 586.793 | 7.381.363 | A | A |
| PE-146 | 587.219 | 7.381.367 | NA | NA |
| PE-147 | 587.020 | 7.381.370 | A | A |
| PE-148 | 586.967 | 7.381.376 | A | A |
| PE-149 | 586.845 | 7.381.382 | A | A |
| PE-150 | 586.763 | 7.381.389 | A | A |
| PE-151 | 586.962 | 7.381.427 | NA | NA |
| PE-152 | 587.051 | 7.381.433 | A | A |
| PE-153 | 587.185 | 7.381.434 | NA | NA |
| PE-154 | 587.014 | 7.381.443 | A | A |
| PE-155 | 587.074 | 7.381.453 | A | A |
| PE-156 | 586.991 | 7.381.472 | A | A |
| PE-157 | 587.050 | 7.381.475 | A | A |
| PE-158 | 586.650 | 7.381.482 | NA | NA |
| PE-159 | 586.913 | 7.381.488 | A | A |
| PE-160 | 587.018 | 7.381.491 | NA | NA |
| PE-161 | 586.903 | 7.381.524 | NA | NA |
| PE-162 | 586.662 | 7.381.528 | NA | NA |
| PE-163 | 586.595 | 7.381.553 | NA | NA |

| PUNTO DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19S | | VALID_M7 | MOD_M7 |
|--------------------|------------------------------------|-----------|----------|--------|
| | ESTE | NORTE | | |
| PE-164 | 586.714 | 7.381.555 | NA | NA |
| PE-165 | 586.993 | 7.381.573 | A | A |
| PE-166 | 586.958 | 7.381.575 | NA | NA |
| PE-167 | 586.668 | 7.381.581 | NA | NA |
| PE-168 | 586.604 | 7.381.584 | NA | NA |
| PE-169 | 586.570 | 7.381.597 | NA | NA |
| PE-170 | 586.994 | 7.381.609 | A | A |
| PE-171 | 586.699 | 7.381.614 | NA | NA |
| PE-172 | 586.591 | 7.381.632 | NA | NA |
| PE-173 | 586.936 | 7.381.654 | A | A |
| PE-174 | 586.884 | 7.381.657 | NA | NA |
| PE-175 | 586.768 | 7.381.659 | NA | NA |
| PE-176 | 586.829 | 7.381.661 | A | NA |
| PE-177 | 586.939 | 7.381.704 | NA | NA |
| PE-178 | 586.842 | 7.381.708 | NA | NA |
| PE-179 | 586.907 | 7.381.713 | A | NA |
| PE-180 | 586.714 | 7.381.722 | NA | NA |
| PE-181 | 586.873 | 7.381.722 | A | A |
| PE-182 | 586.905 | 7.381.725 | A | A |
| PE-183 | 586.763 | 7.381.736 | NA | NA |
| PE-184 | 586.848 | 7.381.745 | A | A |
| PE-185 | 586.734 | 7.381.756 | NA | NA |
| PE-VC-001 | 584.886 | 7.384.185 | A | A |
| PE-VC-002 | 584.926 | 7.384.185 | A | A |
| PE-VC-003 | 584.966 | 7.384.185 | A | A |
| PE-VC-004 | 585.006 | 7.384.185 | A | A |
| PE-VC-005 | 585.046 | 7.384.186 | A | A |
| PE-VC-006 | 585.086 | 7.384.186 | A | A |

1.3.1.2 Media resolución (Landsat 8)

1.3.1.2.1 Sector La Punta y La Brava

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-001 | 577.616 | 7.375.771 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-002 | 577.592 | 7.375.790 | NA | NA |
| PB-003 | 577.648 | 7.375.804 | NA | NA |
| PB-004 | 577.566 | 7.375.809 | NA | NA |
| PB-005 | 577.621 | 7.375.823 | A | NA |
| PB-006 | 577.540 | 7.375.827 | NA | NA |
| PB-007 | 577.598 | 7.375.842 | A | NA |
| PB-008 | 577.514 | 7.375.846 | NA | NA |
| PB-009 | 577.494 | 7.375.860 | NA | NA |
| PB-010 | 577.573 | 7.375.861 | NA | NA |
| PB-011 | 577.468 | 7.375.878 | NA | NA |
| PB-012 | 577.547 | 7.375.879 | A | NA |
| PB-013 | 577.527 | 7.375.894 | A | NA |
| PB-014 | 577.442 | 7.375.897 | NA | NA |
| PB-015 | 577.502 | 7.375.912 | A | A |
| PB-016 | 577.416 | 7.375.915 | NA | NA |
| PB-017 | 577.476 | 7.375.931 | A | A |
| PB-018 | 577.391 | 7.375.934 | A | A |
| PB-019 | 577.371 | 7.375.948 | A | A |
| PB-020 | 577.450 | 7.375.950 | NA | A |
| PB-021 | 577.344 | 7.375.961 | A | A |
| PB-022 | 577.424 | 7.375.969 | A | A |
| PB-023 | 577.319 | 7.375.985 | A | A |
| PB-024 | 577.398 | 7.375.988 | A | A |
| PB-025 | 577.292 | 7.376.004 | A | A |
| PB-026 | 577.372 | 7.376.007 | A | A |
| PB-027 | 577.264 | 7.376.019 | NA | NA |
| PB-028 | 577.347 | 7.376.026 | A | A |
| PB-029 | 577.243 | 7.376.041 | NA | NA |
| PB-030 | 577.321 | 7.376.045 | A | A |
| PB-031 | 577.213 | 7.376.059 | NA | NA |
| PB-032 | 577.295 | 7.376.064 | NA | NA |
| PB-033 | 577.269 | 7.376.083 | NA | NA |
| PB-034 | 577.242 | 7.376.102 | NA | NA |
| PB-035 | 577.958 | 7.376.313 | NA | NA |
| PB-036 | 577.937 | 7.376.336 | NA | NA |
| PB-037 | 577.977 | 7.376.339 | NA | NA |
| PB-038 | 577.954 | 7.376.359 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-039 | 577.883 | 7.376.375 | NA | NA |
| PB-040 | 577.918 | 7.376.391 | A | NA |
| PB-041 | 577.860 | 7.376.398 | NA | NA |
| PB-042 | 577.894 | 7.376.412 | A | NA |
| PB-043 | 577.831 | 7.376.417 | NA | NA |
| PB-044 | 577.870 | 7.376.433 | A | NA |
| PB-045 | 577.805 | 7.376.445 | A | A |
| PB-046 | 577.847 | 7.376.451 | NA | NA |
| PB-047 | 577.781 | 7.376.466 | A | NA |
| PB-048 | 577.822 | 7.376.474 | NA | NA |
| PB-049 | 577.757 | 7.376.486 | A | NA |
| PB-050 | 577.795 | 7.376.498 | NA | NA |
| PB-051 | 577.733 | 7.376.507 | A | NA |
| PB-052 | 577.761 | 7.376.527 | A | NA |
| PB-053 | 577.708 | 7.376.528 | A | NA |
| PB-054 | 577.737 | 7.376.548 | A | NA |
| PB-055 | 577.683 | 7.376.549 | A | NA |
| PB-056 | 577.717 | 7.376.570 | A | NA |
| PB-057 | 577.639 | 7.376.583 | A | NA |
| PB-058 | 577.676 | 7.376.600 | NA | NA |
| PB-059 | 577.615 | 7.376.610 | NA | NA |
| PB-060 | 577.650 | 7.376.621 | NA | NA |
| PB-061 | 577.582 | 7.376.634 | NA | NA |
| PB-062 | 577.625 | 7.376.647 | NA | NA |
| PB-VC-001 | 575.464 | 7.374.935 | NA | A |
| PB-VC-002 | 575.517 | 7.374.971 | A | NA |
| PB-VC-003 | 575.544 | 7.375.002 | A | NA |
| PB-VC-004 | 575.697 | 7.375.228 | A | NA |
| PB-VC-005 | 575.782 | 7.375.331 | A | A |
| PB-VC-006 | 575.864 | 7.375.339 | A | A |
| PB-VC-007 | 575.900 | 7.375.393 | A | NA |
| PB-VC-008 | 576.022 | 7.375.421 | NA | NA |
| PB-VC-009 | 576.190 | 7.375.516 | NA | NA |
| PB-VC-010 | 576.184 | 7.375.563 | A | NA |
| PB-VC-011 | 576.168 | 7.375.624 | NA | NA |
| PB-VC-012 | 576.192 | 7.375.651 | NA | NA |
| PB-VC-013 | 576.127 | 7.375.679 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-VC-014 | 576.185 | 7.375.694 | A | A |
| PB-VC-015 | 576.533 | 7.375.709 | A | A |
| PB-VC-016 | 576.243 | 7.375.709 | NA | NA |
| PB-VC-017 | 576.208 | 7.375.713 | A | A |
| PB-VC-018 | 576.355 | 7.375.716 | A | A |
| PB-VC-019 | 576.116 | 7.375.724 | NA | NA |
| PB-VC-020 | 576.301 | 7.375.724 | NA | NA |
| PB-VC-021 | 576.424 | 7.375.729 | A | A |
| PB-VC-022 | 576.174 | 7.375.739 | A | A |
| PB-VC-023 | 576.359 | 7.375.739 | A | A |
| PB-VC-024 | 576.273 | 7.375.741 | A | A |
| PB-VC-025 | 576.232 | 7.375.754 | A | A |
| PB-VC-026 | 576.418 | 7.375.754 | A | A |
| PB-VC-027 | 576.571 | 7.375.761 | A | A |
| PB-VC-028 | 576.290 | 7.375.769 | A | A |
| PB-VC-029 | 576.476 | 7.375.770 | A | A |
| PB-VC-030 | 576.348 | 7.375.784 | A | A |
| PB-VC-031 | 576.534 | 7.375.785 | A | A |
| PB-VC-032 | 576.406 | 7.375.799 | NA | NA |
| PB-VC-033 | 576.464 | 7.375.814 | NA | NA |
| PB-VC-034 | 576.522 | 7.375.829 | NA | NA |
| PB-VC-035 | 577.813 | 7.376.403 | A | A |

1.3.1.2.2 Sector Peine

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-001 | 587.730 | 7.380.165 | NA | NA |
| PE-002 | 587.778 | 7.380.181 | A | A |
| PE-003 | 587.817 | 7.380.200 | A | A |
| PE-004 | 587.651 | 7.380.216 | NA | A |
| PE-005 | 587.847 | 7.380.217 | NA | NA |
| PE-006 | 587.711 | 7.380.219 | A | A |
| PE-007 | 587.763 | 7.380.246 | A | A |
| PE-008 | 587.813 | 7.380.249 | A | A |
| PE-009 | 587.710 | 7.380.267 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-010 | 587.670 | 7.380.282 | A | A |
| PE-011 | 587.798 | 7.380.284 | A | A |
| PE-012 | 587.903 | 7.380.306 | NA | NA |
| PE-013 | 587.599 | 7.380.321 | A | A |
| PE-014 | 587.809 | 7.380.329 | A | A |
| PE-015 | 587.725 | 7.380.332 | A | A |
| PE-016 | 587.535 | 7.380.337 | A | A |
| PE-017 | 587.670 | 7.380.340 | A | A |
| PE-018 | 587.636 | 7.380.344 | A | A |
| PE-019 | 587.780 | 7.380.350 | A | A |
| PE-020 | 587.848 | 7.380.353 | A | A |
| PE-021 | 587.598 | 7.380.358 | A | A |
| PE-022 | 587.878 | 7.380.361 | A | A |
| PE-023 | 587.740 | 7.380.365 | A | A |
| PE-024 | 587.539 | 7.380.369 | A | A |
| PE-025 | 587.668 | 7.380.371 | A | A |
| PE-026 | 587.817 | 7.380.371 | A | A |
| PE-027 | 587.771 | 7.380.381 | A | A |
| PE-028 | 587.616 | 7.380.388 | A | A |
| PE-029 | 587.567 | 7.380.390 | A | A |
| PE-030 | 587.882 | 7.380.394 | A | A |
| PE-031 | 587.693 | 7.380.397 | A | A |
| PE-032 | 587.728 | 7.380.399 | A | A |
| PE-033 | 587.824 | 7.380.404 | A | A |
| PE-034 | 587.856 | 7.380.419 | A | A |
| PE-035 | 587.638 | 7.380.419 | A | A |
| PE-036 | 587.887 | 7.380.429 | A | A |
| PE-037 | 587.790 | 7.380.430 | A | A |
| PE-038 | 587.710 | 7.380.434 | A | A |
| PE-039 | 587.610 | 7.380.438 | A | A |
| PE-040 | 587.750 | 7.380.445 | A | A |
| PE-041 | 587.657 | 7.380.459 | A | A |
| PE-042 | 587.701 | 7.380.468 | A | A |
| PE-043 | 587.878 | 7.380.472 | A | A |
| PE-044 | 587.742 | 7.380.478 | A | A |
| PE-045 | 587.698 | 7.380.502 | A | A |
| PE-046 | 587.630 | 7.380.505 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-047 | 587.542 | 7.380.506 | A | A |
| PE-048 | 587.787 | 7.380.507 | A | A |
| PE-049 | 587.880 | 7.380.517 | A | A |
| PE-050 | 587.452 | 7.380.517 | A | NA |
| PE-051 | 587.756 | 7.380.521 | A | A |
| PE-052 | 587.705 | 7.380.542 | A | A |
| PE-053 | 587.418 | 7.380.542 | A | NA |
| PE-054 | 587.941 | 7.380.552 | NA | NA |
| PE-055 | 587.538 | 7.380.562 | NA | NA |
| PE-056 | 587.718 | 7.380.577 | A | A |
| PE-057 | 587.770 | 7.380.577 | A | A |
| PE-058 | 587.970 | 7.380.581 | A | A |
| PE-059 | 587.859 | 7.380.583 | A | A |
| PE-060 | 587.495 | 7.380.584 | NA | NA |
| PE-061 | 587.799 | 7.380.592 | A | A |
| PE-062 | 587.656 | 7.380.594 | A | A |
| PE-063 | 587.900 | 7.380.596 | A | A |
| PE-064 | 587.742 | 7.380.599 | A | A |
| PE-065 | 587.829 | 7.380.600 | A | A |
| PE-066 | 587.782 | 7.380.621 | A | A |
| PE-067 | 587.281 | 7.380.627 | A | NA |
| PE-068 | 587.653 | 7.380.627 | NA | NA |
| PE-069 | 587.748 | 7.380.629 | A | A |
| PE-070 | 587.688 | 7.380.630 | A | A |
| PE-071 | 587.916 | 7.380.633 | A | A |
| PE-072 | 587.860 | 7.380.643 | A | A |
| PE-073 | 587.801 | 7.380.649 | A | A |
| PE-074 | 587.765 | 7.380.658 | A | A |
| PE-075 | 587.716 | 7.380.659 | A | A |
| PE-076 | 587.302 | 7.380.668 | NA | NA |
| PE-077 | 587.876 | 7.380.671 | A | A |
| PE-078 | 587.913 | 7.380.678 | A | A |
| PE-079 | 587.671 | 7.380.681 | A | A |
| PE-080 | 587.822 | 7.380.682 | A | A |
| PE-081 | 587.636 | 7.380.682 | A | A |
| PE-082 | 587.748 | 7.380.689 | A | A |
| PE-083 | 587.588 | 7.380.690 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-084 | 587.704 | 7.380.707 | A | A |
| PE-085 | 587.626 | 7.380.718 | A | A |
| PE-086 | 587.658 | 7.380.719 | A | A |
| PE-087 | 587.741 | 7.380.722 | A | A |
| PE-088 | 587.601 | 7.380.738 | NA | NA |
| PE-089 | 587.150 | 7.380.764 | A | NA |
| PE-090 | 587.628 | 7.380.786 | A | A |
| PE-091 | 587.589 | 7.380.792 | A | A |
| PE-092 | 587.557 | 7.380.828 | A | A |
| PE-093 | 587.249 | 7.380.862 | NA | NA |
| PE-094 | 587.458 | 7.380.867 | NA | NA |
| PE-095 | 587.088 | 7.380.875 | A | NA |
| PE-096 | 587.569 | 7.380.906 | NA | NA |
| PE-097 | 587.104 | 7.380.935 | NA | NA |
| PE-098 | 587.067 | 7.380.944 | A | NA |
| PE-099 | 587.227 | 7.380.947 | NA | NA |
| PE-100 | 587.371 | 7.380.954 | NA | NA |
| PE-101 | 587.247 | 7.380.975 | NA | NA |
| PE-102 | 586.993 | 7.380.991 | A | A |
| PE-103 | 587.264 | 7.381.014 | NA | NA |
| PE-104 | 587.434 | 7.381.015 | NA | NA |
| PE-105 | 587.001 | 7.381.021 | A | A |
| PE-106 | 586.960 | 7.381.042 | A | NA |
| PE-107 | 587.227 | 7.381.047 | NA | NA |
| PE-108 | 587.052 | 7.381.121 | NA | NA |
| PE-109 | 587.124 | 7.381.121 | NA | NA |
| PE-110 | 587.283 | 7.381.122 | NA | NA |
| PE-111 | 586.881 | 7.381.122 | NA | NA |
| PE-112 | 587.419 | 7.381.129 | NA | NA |
| PE-113 | 587.001 | 7.381.136 | A | A |
| PE-114 | 587.031 | 7.381.153 | A | A |
| PE-115 | 586.877 | 7.381.154 | A | NA |
| PE-116 | 586.848 | 7.381.163 | A | NA |
| PE-117 | 586.966 | 7.381.179 | A | A |
| PE-118 | 587.009 | 7.381.193 | A | A |
| PE-119 | 587.041 | 7.381.194 | A | A |
| PE-120 | 587.382 | 7.381.200 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-121 | 586.980 | 7.381.209 | A | A |
| PE-122 | 586.922 | 7.381.237 | A | A |
| PE-123 | 586.979 | 7.381.241 | A | A |
| PE-124 | 587.124 | 7.381.247 | NA | NA |
| PE-125 | 587.256 | 7.381.248 | NA | NA |
| PE-126 | 586.880 | 7.381.250 | A | A |
| PE-127 | 587.314 | 7.381.251 | NA | NA |
| PE-128 | 586.876 | 7.381.296 | A | A |
| PE-129 | 587.046 | 7.381.303 | A | A |
| PE-130 | 586.930 | 7.381.305 | A | A |
| PE-131 | 587.229 | 7.381.320 | NA | NA |
| PE-132 | 586.860 | 7.381.329 | A | A |
| PE-133 | 587.048 | 7.381.335 | A | A |
| PE-134 | 586.991 | 7.381.338 | A | A |
| PE-135 | 587.099 | 7.381.340 | A | NA |
| PE-136 | 587.179 | 7.381.345 | NA | NA |
| PE-137 | 586.793 | 7.381.363 | A | A |
| PE-138 | 587.219 | 7.381.367 | NA | NA |
| PE-139 | 587.020 | 7.381.370 | A | A |
| PE-140 | 586.967 | 7.381.376 | A | A |
| PE-141 | 586.845 | 7.381.382 | A | A |
| PE-142 | 586.763 | 7.381.389 | A | A |
| PE-143 | 586.962 | 7.381.427 | NA | NA |
| PE-144 | 587.051 | 7.381.433 | A | A |
| PE-145 | 587.185 | 7.381.434 | NA | NA |
| PE-146 | 587.014 | 7.381.443 | A | A |
| PE-147 | 587.074 | 7.381.453 | A | A |
| PE-148 | 586.991 | 7.381.472 | A | A |
| PE-149 | 587.050 | 7.381.475 | A | A |
| PE-150 | 586.650 | 7.381.482 | NA | NA |
| PE-151 | 586.913 | 7.381.488 | A | A |
| PE-152 | 587.018 | 7.381.491 | NA | NA |
| PE-153 | 586.903 | 7.381.524 | NA | NA |
| PE-154 | 586.662 | 7.381.528 | NA | NA |
| PE-155 | 586.595 | 7.381.553 | NA | NA |
| PE-156 | 586.714 | 7.381.555 | NA | NA |
| PE-157 | 586.991 | 7.381.570 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M7 | MOD_M7 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-158 | 586.958 | 7.381.575 | NA | NA |
| PE-159 | 586.668 | 7.381.581 | NA | NA |
| PE-160 | 586.604 | 7.381.584 | NA | NA |
| PE-161 | 586.570 | 7.381.597 | NA | NA |
| PE-162 | 586.994 | 7.381.609 | A | NA |
| PE-163 | 586.699 | 7.381.614 | NA | NA |
| PE-164 | 586.591 | 7.381.632 | NA | NA |
| PE-165 | 586.936 | 7.381.654 | A | NA |
| PE-166 | 586.884 | 7.381.657 | NA | NA |
| PE-167 | 586.768 | 7.381.659 | NA | NA |
| PE-168 | 586.829 | 7.381.661 | A | NA |
| PE-169 | 586.939 | 7.381.704 | NA | NA |
| PE-170 | 586.842 | 7.381.708 | NA | NA |
| PE-171 | 586.714 | 7.381.722 | NA | NA |
| PE-172 | 586.873 | 7.381.722 | A | NA |
| PE-173 | 586.905 | 7.381.725 | A | NA |
| PE-174 | 586.763 | 7.381.736 | NA | NA |
| PE-175 | 586.848 | 7.381.745 | A | NA |
| PE-176 | 586.734 | 7.381.756 | NA | NA |
| PE-VC-001 | 584.886 | 7.384.185 | A | A |
| PE-VC-002 | 584.926 | 7.384.185 | A | A |
| PE-VC-003 | 584.966 | 7.384.185 | A | A |
| PE-VC-004 | 585.006 | 7.384.185 | A | A |
| PE-VC-005 | 585.046 | 7.384.186 | A | A |
| PE-VC-006 | 585.086 | 7.384.186 | A | A |

1.3.2 Verano 2019

1.3.2.1 Alta resolución (Pleiades 1A)

1.3.2.1.1 Sector La Punta y La Brava

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-001 | 577.635 | 7.375.763 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-002 | 577.630 | 7.375.768 | NA | NA |
| PB-003 | 577.624 | 7.375.773 | NA | NA |
| PB-004 | 577.617 | 7.375.777 | NA | NA |
| PB-005 | 577.611 | 7.375.782 | NA | NA |
| PB-006 | 577.604 | 7.375.786 | NA | NA |
| PB-007 | 577.598 | 7.375.791 | NA | NA |
| PB-008 | 577.591 | 7.375.796 | NA | NA |
| PB-009 | 577.667 | 7.375.796 | NA | NA |
| PB-010 | 577.659 | 7.375.800 | NA | NA |
| PB-011 | 577.585 | 7.375.800 | NA | NA |
| PB-012 | 577.578 | 7.375.805 | NA | NA |
| PB-013 | 577.653 | 7.375.805 | NA | NA |
| PB-014 | 577.647 | 7.375.810 | NA | NA |
| PB-015 | 577.572 | 7.375.810 | NA | NA |
| PB-016 | 577.565 | 7.375.814 | NA | NA |
| PB-017 | 577.640 | 7.375.815 | NA | NA |
| PB-018 | 577.559 | 7.375.819 | A | NA |
| PB-019 | 577.636 | 7.375.819 | NA | NA |
| PB-020 | 577.552 | 7.375.824 | NA | NA |
| PB-021 | 577.630 | 7.375.824 | NA | NA |
| PB-022 | 577.623 | 7.375.826 | NA | NA |
| PB-023 | 577.546 | 7.375.828 | NA | NA |
| PB-024 | 577.622 | 7.375.832 | NA | NA |
| PB-025 | 577.539 | 7.375.833 | NA | NA |
| PB-026 | 577.617 | 7.375.833 | NA | NA |
| PB-027 | 577.533 | 7.375.838 | NA | NA |
| PB-028 | 577.611 | 7.375.838 | A | NA |
| PB-029 | 577.526 | 7.375.842 | NA | NA |
| PB-030 | 577.604 | 7.375.843 | A | NA |
| PB-031 | 577.520 | 7.375.847 | NA | NA |
| PB-032 | 577.598 | 7.375.848 | NA | NA |
| PB-033 | 577.513 | 7.375.851 | NA | NA |
| PB-034 | 577.591 | 7.375.852 | A | NA |
| PB-035 | 577.507 | 7.375.856 | NA | NA |
| PB-036 | 577.585 | 7.375.857 | NA | NA |
| PB-037 | 577.500 | 7.375.861 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-038 | 577.578 | 7.375.862 | NA | NA |
| PB-039 | 577.494 | 7.375.865 | NA | NA |
| PB-040 | 577.572 | 7.375.867 | A | A |
| PB-041 | 577.487 | 7.375.870 | NA | NA |
| PB-042 | 577.565 | 7.375.871 | A | A |
| PB-043 | 577.481 | 7.375.875 | NA | NA |
| PB-044 | 577.559 | 7.375.876 | A | A |
| PB-045 | 577.474 | 7.375.879 | NA | NA |
| PB-046 | 577.552 | 7.375.881 | NA | A |
| PB-047 | 577.467 | 7.375.884 | NA | NA |
| PB-048 | 577.546 | 7.375.885 | A | A |
| PB-049 | 577.461 | 7.375.889 | NA | NA |
| PB-050 | 577.540 | 7.375.890 | A | A |
| PB-051 | 577.454 | 7.375.893 | NA | NA |
| PB-052 | 577.533 | 7.375.895 | A | A |
| PB-053 | 577.448 | 7.375.898 | NA | NA |
| PB-054 | 577.527 | 7.375.900 | NA | A |
| PB-055 | 577.441 | 7.375.903 | NA | NA |
| PB-056 | 577.520 | 7.375.904 | A | A |
| PB-057 | 577.435 | 7.375.907 | NA | NA |
| PB-058 | 577.514 | 7.375.909 | NA | A |
| PB-059 | 577.428 | 7.375.912 | NA | NA |
| PB-060 | 577.507 | 7.375.914 | A | A |
| PB-061 | 577.422 | 7.375.917 | NA | NA |
| PB-062 | 577.501 | 7.375.918 | A | A |
| PB-063 | 577.414 | 7.375.922 | NA | NA |
| PB-064 | 577.494 | 7.375.923 | A | A |
| PB-065 | 577.410 | 7.375.925 | NA | A |
| PB-066 | 577.488 | 7.375.928 | A | A |
| PB-067 | 577.402 | 7.375.930 | A | A |
| PB-068 | 577.481 | 7.375.933 | A | A |
| PB-069 | 577.396 | 7.375.935 | A | A |
| PB-070 | 577.475 | 7.375.937 | A | A |
| PB-071 | 577.389 | 7.375.940 | A | A |
| PB-072 | 577.468 | 7.375.942 | A | A |
| PB-073 | 577.383 | 7.375.944 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-074 | 577.462 | 7.375.947 | A | A |
| PB-075 | 577.376 | 7.375.949 | A | A |
| PB-076 | 577.456 | 7.375.952 | NA | A |
| PB-077 | 577.363 | 7.375.953 | NA | A |
| PB-078 | 577.370 | 7.375.954 | A | A |
| PB-079 | 577.449 | 7.375.956 | NA | A |
| PB-080 | 577.359 | 7.375.958 | A | A |
| PB-081 | 577.443 | 7.375.961 | A | A |
| PB-082 | 577.355 | 7.375.962 | A | A |
| PB-083 | 577.348 | 7.375.966 | NA | A |
| PB-084 | 577.436 | 7.375.966 | A | A |
| PB-085 | 577.430 | 7.375.970 | A | A |
| PB-086 | 577.344 | 7.375.972 | A | A |
| PB-087 | 577.423 | 7.375.975 | A | A |
| PB-088 | 577.337 | 7.375.977 | NA | A |
| PB-089 | 577.417 | 7.375.980 | A | A |
| PB-090 | 577.331 | 7.375.982 | NA | NA |
| PB-091 | 577.410 | 7.375.985 | A | A |
| PB-092 | 577.323 | 7.375.986 | NA | A |
| PB-093 | 577.319 | 7.375.988 | A | A |
| PB-094 | 577.404 | 7.375.989 | A | A |
| PB-095 | 577.313 | 7.375.992 | A | A |
| PB-096 | 577.397 | 7.375.994 | A | A |
| PB-097 | 577.311 | 7.375.996 | A | A |
| PB-098 | 577.391 | 7.375.999 | A | A |
| PB-099 | 577.305 | 7.376.000 | A | A |
| PB-100 | 577.385 | 7.376.004 | A | A |
| PB-101 | 577.298 | 7.376.005 | A | A |
| PB-102 | 577.378 | 7.376.008 | A | A |
| PB-103 | 577.290 | 7.376.009 | A | A |
| PB-104 | 577.283 | 7.376.011 | A | A |
| PB-105 | 577.372 | 7.376.013 | A | A |
| PB-106 | 577.279 | 7.376.018 | NA | A |
| PB-107 | 577.365 | 7.376.018 | A | A |
| PB-108 | 577.274 | 7.376.019 | NA | A |
| PB-109 | 577.359 | 7.376.022 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-110 | 577.271 | 7.376.025 | NA | NA |
| PB-111 | 577.352 | 7.376.027 | A | A |
| PB-112 | 577.266 | 7.376.028 | NA | NA |
| PB-113 | 577.346 | 7.376.032 | A | A |
| PB-114 | 577.261 | 7.376.033 | NA | NA |
| PB-115 | 577.256 | 7.376.036 | NA | NA |
| PB-116 | 577.339 | 7.376.037 | A | A |
| PB-117 | 577.250 | 7.376.039 | NA | NA |
| PB-118 | 577.333 | 7.376.041 | A | A |
| PB-119 | 577.244 | 7.376.043 | NA | NA |
| PB-120 | 577.326 | 7.376.046 | A | A |
| PB-121 | 577.238 | 7.376.046 | NA | NA |
| PB-122 | 577.232 | 7.376.051 | NA | NA |
| PB-123 | 577.320 | 7.376.051 | A | A |
| PB-124 | 577.314 | 7.376.055 | A | A |
| PB-125 | 577.307 | 7.376.060 | A | A |
| PB-126 | 577.301 | 7.376.065 | NA | NA |
| PB-127 | 577.294 | 7.376.070 | A | A |
| PB-128 | 577.288 | 7.376.074 | A | A |
| PB-129 | 577.281 | 7.376.079 | A | A |
| PB-130 | 577.275 | 7.376.084 | NA | NA |
| PB-131 | 577.269 | 7.376.086 | NA | NA |
| PB-132 | 577.261 | 7.376.093 | NA | NA |
| PB-133 | 577.976 | 7.376.305 | NA | NA |
| PB-134 | 577.970 | 7.376.311 | NA | NA |
| PB-135 | 577.965 | 7.376.317 | NA | NA |
| PB-136 | 577.959 | 7.376.322 | NA | NA |
| PB-137 | 577.955 | 7.376.328 | NA | NA |
| PB-138 | 577.996 | 7.376.331 | NA | NA |
| PB-139 | 577.950 | 7.376.332 | NA | NA |
| PB-140 | 577.943 | 7.376.335 | NA | NA |
| PB-141 | 577.990 | 7.376.336 | NA | NA |
| PB-142 | 577.936 | 7.376.339 | NA | NA |
| PB-143 | 577.984 | 7.376.341 | NA | NA |
| PB-144 | 577.932 | 7.376.342 | NA | NA |
| PB-145 | 577.979 | 7.376.346 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-146 | 577.921 | 7.376.348 | NA | NA |
| PB-147 | 577.973 | 7.376.351 | NA | NA |
| PB-148 | 577.915 | 7.376.352 | NA | NA |
| PB-149 | 577.967 | 7.376.355 | NA | NA |
| PB-150 | 577.962 | 7.376.360 | NA | NA |
| PB-151 | 577.906 | 7.376.361 | NA | NA |
| PB-152 | 577.957 | 7.376.363 | NA | NA |
| PB-153 | 577.902 | 7.376.367 | NA | NA |
| PB-154 | 577.947 | 7.376.369 | A | A |
| PB-155 | 577.898 | 7.376.373 | NA | NA |
| PB-156 | 577.894 | 7.376.377 | NA | NA |
| PB-157 | 577.943 | 7.376.378 | A | A |
| PB-158 | 577.889 | 7.376.382 | NA | NA |
| PB-159 | 577.937 | 7.376.383 | A | A |
| PB-160 | 577.884 | 7.376.387 | NA | NA |
| PB-161 | 577.931 | 7.376.388 | A | A |
| PB-162 | 577.879 | 7.376.390 | NA | NA |
| PB-163 | 577.925 | 7.376.392 | A | A |
| PB-164 | 577.873 | 7.376.395 | NA | NA |
| PB-165 | 577.923 | 7.376.397 | NA | NA |
| PB-166 | 577.867 | 7.376.399 | NA | NA |
| PB-167 | 577.919 | 7.376.400 | A | NA |
| PB-168 | 577.861 | 7.376.402 | NA | NA |
| PB-169 | 577.913 | 7.376.404 | A | A |
| PB-170 | 577.856 | 7.376.406 | NA | NA |
| PB-171 | 577.907 | 7.376.409 | A | A |
| PB-172 | 577.850 | 7.376.409 | NA | NA |
| PB-173 | 577.845 | 7.376.413 | NA | NA |
| PB-174 | 577.901 | 7.376.414 | A | A |
| PB-175 | 577.839 | 7.376.418 | NA | NA |
| PB-176 | 577.895 | 7.376.419 | A | A |
| PB-177 | 577.835 | 7.376.424 | NA | A |
| PB-178 | 577.889 | 7.376.425 | NA | A |
| PB-179 | 577.832 | 7.376.427 | A | A |
| PB-180 | 577.883 | 7.376.430 | A | NA |
| PB-181 | 577.874 | 7.376.431 | NA | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-182 | 577.830 | 7.376.431 | A | A |
| PB-183 | 577.877 | 7.376.435 | NA | NA |
| PB-184 | 577.824 | 7.376.437 | NA | A |
| PB-185 | 577.871 | 7.376.439 | NA | NA |
| PB-186 | 577.818 | 7.376.442 | A | A |
| PB-187 | 577.866 | 7.376.443 | NA | NA |
| PB-188 | 577.812 | 7.376.447 | A | A |
| PB-189 | 577.860 | 7.376.447 | NA | NA |
| PB-190 | 577.855 | 7.376.451 | NA | NA |
| PB-191 | 577.806 | 7.376.452 | A | A |
| PB-192 | 577.851 | 7.376.456 | NA | NA |
| PB-193 | 577.800 | 7.376.457 | A | A |
| PB-194 | 577.846 | 7.376.461 | NA | NA |
| PB-195 | 577.794 | 7.376.463 | A | A |
| PB-196 | 577.841 | 7.376.466 | NA | NA |
| PB-197 | 577.788 | 7.376.468 | A | A |
| PB-198 | 577.835 | 7.376.471 | NA | NA |
| PB-199 | 577.782 | 7.376.473 | A | A |
| PB-200 | 577.830 | 7.376.476 | NA | NA |
| PB-201 | 577.775 | 7.376.478 | A | A |
| PB-202 | 577.825 | 7.376.481 | NA | NA |
| PB-203 | 577.769 | 7.376.483 | A | A |
| PB-204 | 577.820 | 7.376.486 | NA | NA |
| PB-205 | 577.763 | 7.376.489 | A | A |
| PB-206 | 577.814 | 7.376.489 | NA | NA |
| PB-207 | 577.807 | 7.376.494 | NA | NA |
| PB-208 | 577.757 | 7.376.494 | A | A |
| PB-209 | 577.751 | 7.376.499 | A | A |
| PB-210 | 577.801 | 7.376.499 | NA | NA |
| PB-211 | 577.745 | 7.376.504 | A | A |
| PB-212 | 577.795 | 7.376.504 | NA | NA |
| PB-213 | 577.739 | 7.376.509 | A | A |
| PB-214 | 577.733 | 7.376.515 | A | NA |
| PB-215 | 577.786 | 7.376.515 | A | A |
| PB-216 | 577.780 | 7.376.519 | A | A |
| PB-217 | 577.727 | 7.376.520 | A | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-218 | 577.774 | 7.376.524 | A | A |
| PB-219 | 577.721 | 7.376.525 | A | A |
| PB-220 | 577.768 | 7.376.529 | NA | A |
| PB-221 | 577.714 | 7.376.530 | NA | NA |
| PB-222 | 577.762 | 7.376.534 | NA | NA |
| PB-223 | 577.707 | 7.376.535 | NA | NA |
| PB-224 | 577.756 | 7.376.540 | NA | NA |
| PB-225 | 577.702 | 7.376.540 | A | NA |
| PB-226 | 577.749 | 7.376.545 | A | NA |
| PB-227 | 577.697 | 7.376.545 | NA | NA |
| PB-228 | 577.694 | 7.376.548 | NA | NA |
| PB-229 | 577.746 | 7.376.553 | NA | NA |
| PB-230 | 577.686 | 7.376.554 | NA | NA |
| PB-231 | 577.740 | 7.376.557 | NA | NA |
| PB-232 | 577.680 | 7.376.560 | NA | NA |
| PB-233 | 577.731 | 7.376.561 | NA | NA |
| PB-234 | 577.736 | 7.376.562 | NA | NA |
| PB-235 | 577.674 | 7.376.564 | NA | NA |
| PB-236 | 577.725 | 7.376.566 | NA | NA |
| PB-237 | 577.669 | 7.376.567 | NA | NA |
| PB-238 | 577.663 | 7.376.570 | NA | NA |
| PB-239 | 577.719 | 7.376.571 | NA | NA |
| PB-240 | 577.658 | 7.376.575 | NA | NA |
| PB-241 | 577.717 | 7.376.576 | NA | NA |
| PB-242 | 577.655 | 7.376.580 | A | A |
| PB-243 | 577.712 | 7.376.580 | NA | NA |
| PB-244 | 577.648 | 7.376.586 | A | A |
| PB-245 | 577.708 | 7.376.587 | NA | NA |
| PB-246 | 577.703 | 7.376.590 | NA | NA |
| PB-247 | 577.643 | 7.376.592 | NA | NA |
| PB-248 | 577.695 | 7.376.592 | A | NA |
| PB-249 | 577.690 | 7.376.594 | NA | NA |
| PB-250 | 577.638 | 7.376.597 | NA | NA |
| PB-251 | 577.684 | 7.376.598 | NA | NA |
| PB-252 | 577.633 | 7.376.602 | NA | NA |
| PB-253 | 577.679 | 7.376.603 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-254 | 577.627 | 7.376.605 | NA | NA |
| PB-255 | 577.674 | 7.376.608 | NA | NA |
| PB-256 | 577.621 | 7.376.608 | NA | NA |
| PB-257 | 577.615 | 7.376.611 | NA | NA |
| PB-258 | 577.669 | 7.376.612 | NA | NA |
| PB-259 | 577.610 | 7.376.616 | NA | NA |
| PB-260 | 577.664 | 7.376.617 | NA | NA |
| PB-261 | 577.606 | 7.376.620 | NA | NA |
| PB-262 | 577.659 | 7.376.622 | NA | NA |
| PB-263 | 577.600 | 7.376.626 | NA | NA |
| PB-264 | 577.655 | 7.376.627 | NA | NA |
| PB-265 | 577.650 | 7.376.632 | NA | NA |
| PB-266 | 577.644 | 7.376.638 | NA | NA |
| PB-267 | 577.639 | 7.376.644 | NA | NA |
| PB-268 | 577.633 | 7.376.647 | NA | NA |
| PB-269 | 577.623 | 7.376.653 | NA | NA |
| PB-270 | 577.617 | 7.376.656 | NA | NA |
| PB-VC-001 | 575.464 | 7.374.935 | NA | NA |
| PB-VC-002 | 575.517 | 7.374.971 | NA | NA |
| PB-VC-003 | 575.544 | 7.375.002 | NA | NA |
| PB-VC-004 | 575.697 | 7.375.228 | A | A |
| PB-VC-005 | 575.782 | 7.375.331 | NA | A |
| PB-VC-006 | 575.864 | 7.375.339 | A | A |
| PB-VC-007 | 575.900 | 7.375.393 | NA | NA |
| PB-VC-008 | 576.022 | 7.375.421 | NA | NA |
| PB-VC-009 | 576.190 | 7.375.516 | NA | NA |
| PB-VC-010 | 576.184 | 7.375.563 | NA | NA |
| PB-VC-011 | 576.168 | 7.375.624 | NA | NA |
| PB-VC-012 | 576.192 | 7.375.651 | NA | NA |
| PB-VC-013 | 576.127 | 7.375.679 | NA | NA |
| PB-VC-014 | 576.185 | 7.375.694 | NA | NA |
| PB-VC-015 | 576.533 | 7.375.709 | NA | NA |
| PB-VC-016 | 576.243 | 7.375.709 | NA | NA |
| PB-VC-017 | 576.208 | 7.375.713 | NA | NA |
| PB-VC-018 | 576.355 | 7.375.716 | NA | NA |
| PB-VC-019 | 576.116 | 7.375.724 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-VC-020 | 576.301 | 7.375.724 | NA | NA |
| PB-VC-021 | 576.424 | 7.375.729 | NA | NA |
| PB-VC-022 | 576.174 | 7.375.739 | A | A |
| PB-VC-023 | 576.359 | 7.375.739 | NA | NA |
| PB-VC-024 | 576.273 | 7.375.741 | A | A |
| PB-VC-025 | 576.232 | 7.375.754 | A | A |
| PB-VC-026 | 576.418 | 7.375.754 | NA | NA |
| PB-VC-027 | 576.571 | 7.375.761 | NA | NA |
| PB-VC-028 | 576.290 | 7.375.769 | A | A |
| PB-VC-029 | 576.476 | 7.375.770 | NA | NA |
| PB-VC-030 | 576.348 | 7.375.784 | A | A |
| PB-VC-031 | 576.534 | 7.375.785 | NA | NA |
| PB-VC-032 | 576.406 | 7.375.799 | NA | NA |
| PB-VC-033 | 576.464 | 7.375.814 | NA | NA |
| PB-VC-034 | 576.522 | 7.375.829 | NA | NA |
| PB-VC-035 | 577.813 | 7.376.403 | A | A |

1.3.2.1.2 Sector Peine

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-001 | 587.730 | 7.380.165 | NA | NA |
| PE-002 | 587.778 | 7.380.181 | NA | NA |
| PE-003 | 587.747 | 7.380.183 | NA | A |
| PE-004 | 587.817 | 7.380.200 | NA | NA |
| PE-005 | 587.651 | 7.380.217 | NA | NA |
| PE-006 | 587.711 | 7.380.219 | NA | NA |
| PE-007 | 587.845 | 7.380.220 | NA | NA |
| PE-008 | 587.792 | 7.380.225 | NA | NA |
| PE-009 | 587.763 | 7.380.246 | NA | NA |
| PE-010 | 587.813 | 7.380.249 | NA | NA |
| PE-011 | 587.710 | 7.380.267 | NA | NA |
| PE-012 | 587.670 | 7.380.282 | NA | NA |
| PE-013 | 587.798 | 7.380.284 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-014 | 587.903 | 7.380.306 | NA | NA |
| PE-015 | 587.599 | 7.380.321 | NA | NA |
| PE-016 | 587.809 | 7.380.329 | NA | NA |
| PE-017 | 587.725 | 7.380.332 | NA | NA |
| PE-018 | 587.535 | 7.380.337 | NA | NA |
| PE-019 | 587.670 | 7.380.340 | NA | NA |
| PE-020 | 587.559 | 7.380.341 | NA | NA |
| PE-021 | 587.636 | 7.380.344 | NA | NA |
| PE-022 | 587.780 | 7.380.350 | NA | NA |
| PE-023 | 587.848 | 7.380.353 | NA | NA |
| PE-024 | 587.598 | 7.380.358 | NA | NA |
| PE-025 | 587.878 | 7.380.361 | NA | NA |
| PE-026 | 587.740 | 7.380.365 | NA | NA |
| PE-027 | 587.539 | 7.380.369 | NA | A |
| PE-028 | 587.668 | 7.380.371 | A | A |
| PE-029 | 587.817 | 7.380.371 | A | A |
| PE-030 | 587.771 | 7.380.381 | A | A |
| PE-031 | 587.616 | 7.380.388 | NA | NA |
| PE-032 | 587.567 | 7.380.390 | NA | NA |
| PE-033 | 587.882 | 7.380.394 | NA | NA |
| PE-034 | 587.693 | 7.380.397 | NA | NA |
| PE-035 | 587.728 | 7.380.399 | NA | NA |
| PE-036 | 587.824 | 7.380.404 | NA | NA |
| PE-037 | 587.856 | 7.380.419 | NA | NA |
| PE-038 | 587.638 | 7.380.419 | A | NA |
| PE-039 | 587.887 | 7.380.429 | NA | NA |
| PE-040 | 587.790 | 7.380.430 | NA | NA |
| PE-041 | 587.670 | 7.380.432 | NA | A |
| PE-042 | 587.710 | 7.380.434 | NA | NA |
| PE-043 | 587.610 | 7.380.438 | NA | NA |
| PE-044 | 587.750 | 7.380.445 | NA | NA |
| PE-045 | 587.657 | 7.380.459 | NA | NA |
| PE-046 | 587.701 | 7.380.468 | NA | NA |
| PE-047 | 587.878 | 7.380.472 | NA | NA |
| PE-048 | 587.742 | 7.380.478 | NA | NA |
| PE-049 | 587.698 | 7.380.502 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-050 | 587.630 | 7.380.505 | NA | NA |
| PE-051 | 587.542 | 7.380.506 | A | A |
| PE-052 | 587.787 | 7.380.507 | NA | NA |
| PE-053 | 587.880 | 7.380.517 | NA | NA |
| PE-054 | 587.452 | 7.380.517 | NA | A |
| PE-055 | 587.756 | 7.380.521 | NA | NA |
| PE-056 | 587.705 | 7.380.542 | NA | NA |
| PE-057 | 587.418 | 7.380.542 | NA | NA |
| PE-058 | 587.941 | 7.380.552 | NA | NA |
| PE-059 | 587.538 | 7.380.562 | A | A |
| PE-060 | 587.718 | 7.380.577 | A | A |
| PE-061 | 587.770 | 7.380.577 | A | NA |
| PE-062 | 587.973 | 7.380.581 | A | A |
| PE-063 | 587.859 | 7.380.583 | A | A |
| PE-064 | 587.495 | 7.380.584 | A | A |
| PE-065 | 587.799 | 7.380.592 | A | A |
| PE-066 | 587.656 | 7.380.594 | A | A |
| PE-067 | 587.900 | 7.380.596 | A | A |
| PE-068 | 587.742 | 7.380.599 | A | A |
| PE-069 | 587.829 | 7.380.600 | A | A |
| PE-070 | 587.782 | 7.380.621 | A | A |
| PE-071 | 587.281 | 7.380.627 | A | A |
| PE-072 | 587.653 | 7.380.627 | A | A |
| PE-073 | 587.748 | 7.380.629 | A | A |
| PE-074 | 587.688 | 7.380.630 | A | A |
| PE-075 | 587.916 | 7.380.633 | A | A |
| PE-076 | 587.860 | 7.380.643 | A | A |
| PE-077 | 587.801 | 7.380.649 | A | A |
| PE-078 | 587.765 | 7.380.658 | A | A |
| PE-079 | 587.716 | 7.380.659 | A | A |
| PE-080 | 587.302 | 7.380.668 | A | A |
| PE-081 | 587.876 | 7.380.671 | A | A |
| PE-082 | 587.913 | 7.380.678 | A | A |
| PE-083 | 587.671 | 7.380.681 | A | A |
| PE-084 | 587.822 | 7.380.682 | A | A |
| PE-085 | 587.636 | 7.380.682 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-086 | 587.748 | 7.380.689 | A | A |
| PE-087 | 587.588 | 7.380.690 | A | A |
| PE-088 | 587.704 | 7.380.707 | A | A |
| PE-089 | 587.626 | 7.380.718 | A | A |
| PE-090 | 587.658 | 7.380.719 | A | A |
| PE-091 | 587.741 | 7.380.722 | A | A |
| PE-092 | 587.601 | 7.380.738 | A | A |
| PE-093 | 587.150 | 7.380.764 | A | A |
| PE-094 | 587.628 | 7.380.786 | A | A |
| PE-095 | 587.589 | 7.380.792 | A | A |
| PE-096 | 587.557 | 7.380.828 | A | A |
| PE-097 | 587.249 | 7.380.862 | A | A |
| PE-098 | 587.458 | 7.380.867 | A | A |
| PE-099 | 587.087 | 7.380.877 | A | A |
| PE-100 | 587.569 | 7.380.906 | A | A |
| PE-101 | 587.104 | 7.380.935 | A | A |
| PE-102 | 587.065 | 7.380.943 | A | A |
| PE-103 | 587.227 | 7.380.947 | A | A |
| PE-104 | 587.371 | 7.380.954 | A | A |
| PE-105 | 587.247 | 7.380.975 | A | A |
| PE-106 | 586.993 | 7.380.991 | A | A |
| PE-107 | 587.264 | 7.381.014 | A | A |
| PE-108 | 587.434 | 7.381.015 | A | A |
| PE-109 | 587.001 | 7.381.021 | A | A |
| PE-110 | 586.960 | 7.381.042 | A | A |
| PE-111 | 587.227 | 7.381.047 | A | A |
| PE-112 | 587.052 | 7.381.121 | A | A |
| PE-113 | 587.124 | 7.381.121 | A | A |
| PE-114 | 587.283 | 7.381.122 | A | A |
| PE-115 | 586.881 | 7.381.122 | A | A |
| PE-116 | 587.419 | 7.381.129 | A | A |
| PE-117 | 587.001 | 7.381.136 | A | A |
| PE-118 | 587.031 | 7.381.153 | A | A |
| PE-119 | 586.877 | 7.381.154 | A | A |
| PE-120 | 586.848 | 7.381.163 | A | A |
| PE-121 | 587.014 | 7.381.167 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-122 | 586.966 | 7.381.179 | A | A |
| PE-123 | 587.000 | 7.381.186 | A | A |
| PE-124 | 587.009 | 7.381.193 | A | A |
| PE-125 | 587.041 | 7.381.194 | A | A |
| PE-126 | 587.382 | 7.381.200 | A | A |
| PE-127 | 586.980 | 7.381.209 | A | A |
| PE-128 | 586.988 | 7.381.232 | A | A |
| PE-129 | 586.922 | 7.381.237 | A | A |
| PE-130 | 586.979 | 7.381.241 | A | A |
| PE-131 | 587.124 | 7.381.247 | A | A |
| PE-132 | 587.256 | 7.381.248 | A | A |
| PE-133 | 586.880 | 7.381.250 | A | A |
| PE-134 | 587.314 | 7.381.251 | A | A |
| PE-135 | 586.951 | 7.381.288 | A | A |
| PE-136 | 586.876 | 7.381.296 | A | A |
| PE-137 | 587.046 | 7.381.303 | A | A |
| PE-138 | 586.930 | 7.381.305 | A | A |
| PE-139 | 587.229 | 7.381.320 | A | A |
| PE-140 | 586.860 | 7.381.329 | A | A |
| PE-141 | 587.048 | 7.381.335 | A | A |
| PE-142 | 586.991 | 7.381.338 | A | A |
| PE-143 | 587.099 | 7.381.340 | A | A |
| PE-144 | 587.179 | 7.381.345 | A | A |
| PE-145 | 586.793 | 7.381.363 | A | A |
| PE-146 | 587.219 | 7.381.367 | A | A |
| PE-147 | 587.020 | 7.381.370 | A | A |
| PE-148 | 586.967 | 7.381.376 | A | A |
| PE-149 | 586.845 | 7.381.382 | A | A |
| PE-150 | 586.763 | 7.381.389 | A | A |
| PE-151 | 586.962 | 7.381.427 | A | NA |
| PE-152 | 587.051 | 7.381.433 | A | A |
| PE-153 | 587.185 | 7.381.434 | A | A |
| PE-154 | 587.014 | 7.381.443 | A | A |
| PE-155 | 587.074 | 7.381.453 | A | A |
| PE-156 | 586.991 | 7.381.472 | A | A |
| PE-157 | 587.050 | 7.381.475 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-158 | 586.650 | 7.381.482 | A | A |
| PE-159 | 586.913 | 7.381.488 | A | A |
| PE-160 | 587.018 | 7.381.491 | A | A |
| PE-161 | 586.903 | 7.381.524 | A | A |
| PE-162 | 586.662 | 7.381.528 | A | A |
| PE-163 | 586.595 | 7.381.553 | A | A |
| PE-164 | 586.714 | 7.381.555 | A | A |
| PE-165 | 586.993 | 7.381.573 | A | A |
| PE-166 | 586.958 | 7.381.575 | A | A |
| PE-167 | 586.668 | 7.381.581 | A | A |
| PE-168 | 586.604 | 7.381.584 | A | A |
| PE-169 | 586.570 | 7.381.597 | A | A |
| PE-170 | 586.994 | 7.381.609 | A | A |
| PE-171 | 586.699 | 7.381.614 | A | A |
| PE-172 | 586.591 | 7.381.632 | A | A |
| PE-173 | 586.936 | 7.381.654 | A | A |
| PE-174 | 586.884 | 7.381.657 | A | A |
| PE-175 | 586.768 | 7.381.659 | A | A |
| PE-176 | 586.829 | 7.381.661 | A | A |
| PE-177 | 586.939 | 7.381.704 | A | A |
| PE-178 | 586.842 | 7.381.708 | A | A |
| PE-179 | 586.907 | 7.381.713 | A | A |
| PE-180 | 586.714 | 7.381.722 | A | A |
| PE-181 | 586.873 | 7.381.722 | A | A |
| PE-182 | 586.905 | 7.381.725 | A | A |
| PE-183 | 586.763 | 7.381.736 | A | A |
| PE-184 | 586.848 | 7.381.745 | A | A |
| PE-185 | 586.734 | 7.381.756 | A | A |
| PE-VC-001 | 584.886 | 7.384.185 | A | A |
| PE-VC-002 | 584.926 | 7.384.185 | A | A |
| PE-VC-003 | 584.966 | 7.384.185 | A | A |
| PE-VC-004 | 585.006 | 7.384.185 | A | A |
| PE-VC-005 | 585.046 | 7.384.186 | A | A |
| PE-VC-006 | 585.086 | 7.384.186 | A | A |

1.3.2.2 Media resolución (Landsat 8)

1.3.2.2.1 Sector La Punta y La Brava

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-001 | 577.616 | 7.375.771 | NA | NA |
| PB-002 | 577.592 | 7.375.790 | NA | NA |
| PB-003 | 577.648 | 7.375.804 | NA | NA |
| PB-004 | 577.566 | 7.375.809 | NA | NA |
| PB-005 | 577.621 | 7.375.823 | NA | NA |
| PB-006 | 577.540 | 7.375.827 | NA | NA |
| PB-007 | 577.598 | 7.375.842 | NA | NA |
| PB-008 | 577.514 | 7.375.846 | NA | NA |
| PB-009 | 577.494 | 7.375.860 | NA | NA |
| PB-010 | 577.573 | 7.375.861 | NA | NA |
| PB-011 | 577.468 | 7.375.878 | NA | NA |
| PB-012 | 577.547 | 7.375.879 | NA | NA |
| PB-013 | 577.527 | 7.375.894 | NA | NA |
| PB-014 | 577.442 | 7.375.897 | NA | NA |
| PB-015 | 577.502 | 7.375.912 | A | A |
| PB-016 | 577.416 | 7.375.915 | NA | NA |
| PB-017 | 577.476 | 7.375.931 | NA | A |
| PB-018 | 577.391 | 7.375.934 | NA | A |
| PB-019 | 577.371 | 7.375.948 | NA | A |
| PB-020 | 577.450 | 7.375.950 | NA | A |
| PB-021 | 577.344 | 7.375.961 | NA | A |
| PB-022 | 577.424 | 7.375.969 | A | A |
| PB-023 | 577.319 | 7.375.985 | A | A |
| PB-024 | 577.398 | 7.375.988 | A | A |
| PB-025 | 577.292 | 7.376.004 | NA | A |
| PB-026 | 577.372 | 7.376.007 | A | A |
| PB-027 | 577.264 | 7.376.019 | NA | A |
| PB-028 | 577.347 | 7.376.026 | A | A |
| PB-029 | 577.243 | 7.376.041 | NA | NA |
| PB-030 | 577.321 | 7.376.045 | A | A |
| PB-031 | 577.213 | 7.376.059 | NA | NA |
| PB-032 | 577.295 | 7.376.064 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-033 | 577.269 | 7.376.083 | NA | NA |
| PB-034 | 577.242 | 7.376.102 | NA | NA |
| PB-035 | 577.958 | 7.376.313 | NA | NA |
| PB-036 | 577.937 | 7.376.336 | NA | NA |
| PB-037 | 577.977 | 7.376.339 | NA | NA |
| PB-038 | 577.954 | 7.376.359 | NA | NA |
| PB-039 | 577.883 | 7.376.375 | NA | NA |
| PB-040 | 577.918 | 7.376.391 | NA | NA |
| PB-041 | 577.860 | 7.376.398 | NA | NA |
| PB-042 | 577.894 | 7.376.412 | A | NA |
| PB-043 | 577.831 | 7.376.417 | NA | NA |
| PB-044 | 577.870 | 7.376.433 | NA | NA |
| PB-045 | 577.805 | 7.376.445 | A | NA |
| PB-046 | 577.847 | 7.376.451 | NA | NA |
| PB-047 | 577.781 | 7.376.466 | A | A |
| PB-048 | 577.822 | 7.376.474 | NA | NA |
| PB-049 | 577.757 | 7.376.486 | A | A |
| PB-050 | 577.795 | 7.376.498 | NA | NA |
| PB-051 | 577.733 | 7.376.507 | A | A |
| PB-052 | 577.761 | 7.376.527 | NA | NA |
| PB-053 | 577.708 | 7.376.528 | NA | NA |
| PB-054 | 577.737 | 7.376.548 | NA | NA |
| PB-055 | 577.683 | 7.376.549 | NA | NA |
| PB-056 | 577.717 | 7.376.570 | A | A |
| PB-057 | 577.639 | 7.376.583 | NA | NA |
| PB-058 | 577.676 | 7.376.600 | NA | NA |
| PB-059 | 577.615 | 7.376.610 | NA | NA |
| PB-060 | 577.650 | 7.376.621 | NA | NA |
| PB-061 | 577.582 | 7.376.634 | NA | NA |
| PB-062 | 577.625 | 7.376.647 | A | NA |
| PB-VC-001 | 575.464 | 7.374.935 | NA | NA |
| PB-VC-002 | 575.517 | 7.374.971 | NA | NA |
| PB-VC-003 | 575.544 | 7.375.002 | NA | NA |
| PB-VC-004 | 575.697 | 7.375.228 | A | A |
| PB-VC-005 | 575.782 | 7.375.331 | NA | NA |
| PB-VC-006 | 575.864 | 7.375.339 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PB-VC-007 | 575.900 | 7.375.393 | NA | NA |
| PB-VC-008 | 576.022 | 7.375.421 | NA | NA |
| PB-VC-009 | 576.190 | 7.375.516 | NA | NA |
| PB-VC-010 | 576.184 | 7.375.563 | NA | NA |
| PB-VC-011 | 576.168 | 7.375.624 | NA | NA |
| PB-VC-012 | 576.192 | 7.375.651 | NA | NA |
| PB-VC-013 | 576.127 | 7.375.679 | NA | NA |
| PB-VC-014 | 576.185 | 7.375.694 | NA | NA |
| PB-VC-015 | 576.533 | 7.375.709 | NA | NA |
| PB-VC-016 | 576.243 | 7.375.709 | NA | A |
| PB-VC-017 | 576.208 | 7.375.713 | NA | NA |
| PB-VC-018 | 576.355 | 7.375.716 | NA | NA |
| PB-VC-019 | 576.116 | 7.375.724 | NA | NA |
| PB-VC-020 | 576.301 | 7.375.724 | NA | NA |
| PB-VC-021 | 576.424 | 7.375.729 | NA | NA |
| PB-VC-022 | 576.174 | 7.375.739 | A | NA |
| PB-VC-023 | 576.359 | 7.375.739 | NA | NA |
| PB-VC-024 | 576.273 | 7.375.741 | A | A |
| PB-VC-025 | 576.232 | 7.375.754 | A | A |
| PB-VC-026 | 576.418 | 7.375.754 | NA | NA |
| PB-VC-027 | 576.571 | 7.375.761 | NA | NA |
| PB-VC-028 | 576.290 | 7.375.769 | A | NA |
| PB-VC-029 | 576.476 | 7.375.770 | NA | NA |
| PB-VC-030 | 576.348 | 7.375.784 | A | NA |
| PB-VC-031 | 576.534 | 7.375.785 | NA | NA |
| PB-VC-032 | 576.406 | 7.375.799 | NA | NA |
| PB-VC-033 | 576.464 | 7.375.814 | NA | NA |
| PB-VC-034 | 576.522 | 7.375.829 | NA | NA |
| PB-VC-035 | 577.813 | 7.376.403 | NA | NA |

1.3.2.2.2 Sector Peine

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-001 | 587.730 | 7.380.165 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-002 | 587.778 | 7.380.181 | NA | NA |
| PE-003 | 587.817 | 7.380.200 | NA | NA |
| PE-004 | 587.651 | 7.380.216 | NA | NA |
| PE-005 | 587.847 | 7.380.217 | NA | NA |
| PE-006 | 587.711 | 7.380.219 | NA | A |
| PE-007 | 587.763 | 7.380.246 | NA | NA |
| PE-008 | 587.813 | 7.380.249 | NA | NA |
| PE-009 | 587.710 | 7.380.267 | NA | NA |
| PE-010 | 587.670 | 7.380.282 | NA | NA |
| PE-011 | 587.798 | 7.380.284 | NA | NA |
| PE-012 | 587.903 | 7.380.306 | NA | NA |
| PE-013 | 587.599 | 7.380.321 | NA | NA |
| PE-014 | 587.809 | 7.380.329 | NA | NA |
| PE-015 | 587.725 | 7.380.332 | NA | NA |
| PE-016 | 587.535 | 7.380.337 | NA | NA |
| PE-017 | 587.670 | 7.380.340 | NA | NA |
| PE-018 | 587.636 | 7.380.344 | NA | NA |
| PE-019 | 587.780 | 7.380.350 | NA | NA |
| PE-020 | 587.848 | 7.380.353 | NA | NA |
| PE-021 | 587.598 | 7.380.358 | NA | NA |
| PE-022 | 587.878 | 7.380.361 | NA | NA |
| PE-023 | 587.740 | 7.380.365 | NA | NA |
| PE-024 | 587.539 | 7.380.369 | NA | NA |
| PE-025 | 587.668 | 7.380.371 | NA | NA |
| PE-026 | 587.817 | 7.380.371 | NA | NA |
| PE-027 | 587.771 | 7.380.381 | NA | NA |
| PE-028 | 587.616 | 7.380.388 | NA | NA |
| PE-029 | 587.567 | 7.380.390 | NA | NA |
| PE-030 | 587.882 | 7.380.394 | NA | NA |
| PE-031 | 587.693 | 7.380.397 | NA | NA |
| PE-032 | 587.728 | 7.380.399 | NA | NA |
| PE-033 | 587.824 | 7.380.404 | NA | NA |
| PE-034 | 587.856 | 7.380.419 | NA | NA |
| PE-035 | 587.638 | 7.380.419 | NA | NA |
| PE-036 | 587.887 | 7.380.429 | NA | NA |
| PE-037 | 587.790 | 7.380.430 | NA | NA |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-038 | 587.710 | 7.380.434 | NA | NA |
| PE-039 | 587.610 | 7.380.438 | NA | NA |
| PE-040 | 587.750 | 7.380.445 | A | NA |
| PE-041 | 587.657 | 7.380.459 | NA | NA |
| PE-042 | 587.701 | 7.380.468 | NA | NA |
| PE-043 | 587.878 | 7.380.472 | NA | A |
| PE-044 | 587.742 | 7.380.478 | NA | NA |
| PE-045 | 587.698 | 7.380.502 | NA | NA |
| PE-046 | 587.630 | 7.380.505 | NA | NA |
| PE-047 | 587.542 | 7.380.506 | A | A |
| PE-048 | 587.787 | 7.380.507 | A | A |
| PE-049 | 587.880 | 7.380.517 | A | A |
| PE-050 | 587.452 | 7.380.517 | NA | A |
| PE-051 | 587.756 | 7.380.521 | A | A |
| PE-052 | 587.705 | 7.380.542 | A | A |
| PE-053 | 587.418 | 7.380.542 | A | A |
| PE-054 | 587.941 | 7.380.552 | A | A |
| PE-055 | 587.538 | 7.380.562 | A | NA |
| PE-056 | 587.718 | 7.380.577 | A | A |
| PE-057 | 587.770 | 7.380.577 | A | A |
| PE-058 | 587.970 | 7.380.581 | A | A |
| PE-059 | 587.859 | 7.380.583 | A | A |
| PE-060 | 587.495 | 7.380.584 | A | NA |
| PE-061 | 587.799 | 7.380.592 | A | A |
| PE-062 | 587.656 | 7.380.594 | A | A |
| PE-063 | 587.900 | 7.380.596 | A | NA |
| PE-064 | 587.742 | 7.380.599 | A | NA |
| PE-065 | 587.829 | 7.380.600 | A | NA |
| PE-066 | 587.782 | 7.380.621 | A | A |
| PE-067 | 587.281 | 7.380.627 | A | A |
| PE-068 | 587.653 | 7.380.627 | A | A |
| PE-069 | 587.748 | 7.380.629 | A | A |
| PE-070 | 587.688 | 7.380.630 | NA | NA |
| PE-071 | 587.916 | 7.380.633 | A | A |
| PE-072 | 587.860 | 7.380.643 | A | A |
| PE-073 | 587.801 | 7.380.649 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-074 | 587.765 | 7.380.658 | A | A |
| PE-075 | 587.716 | 7.380.659 | A | A |
| PE-076 | 587.302 | 7.380.668 | A | A |
| PE-077 | 587.876 | 7.380.671 | A | A |
| PE-078 | 587.913 | 7.380.678 | A | NA |
| PE-079 | 587.671 | 7.380.681 | A | NA |
| PE-080 | 587.822 | 7.380.682 | A | NA |
| PE-081 | 587.636 | 7.380.682 | A | A |
| PE-082 | 587.748 | 7.380.689 | A | NA |
| PE-083 | 587.588 | 7.380.690 | A | A |
| PE-084 | 587.704 | 7.380.707 | A | A |
| PE-085 | 587.626 | 7.380.718 | A | A |
| PE-086 | 587.658 | 7.380.719 | A | A |
| PE-087 | 587.741 | 7.380.722 | A | A |
| PE-088 | 587.601 | 7.380.738 | A | A |
| PE-089 | 587.150 | 7.380.764 | NA | A |
| PE-090 | 587.628 | 7.380.786 | NA | A |
| PE-091 | 587.589 | 7.380.792 | NA | A |
| PE-092 | 587.557 | 7.380.828 | NA | A |
| PE-093 | 587.249 | 7.380.862 | NA | A |
| PE-094 | 587.458 | 7.380.867 | A | A |
| PE-095 | 587.088 | 7.380.875 | A | A |
| PE-096 | 587.569 | 7.380.906 | NA | NA |
| PE-097 | 587.104 | 7.380.935 | NA | NA |
| PE-098 | 587.067 | 7.380.944 | A | A |
| PE-099 | 587.227 | 7.380.947 | NA | NA |
| PE-100 | 587.371 | 7.380.954 | A | A |
| PE-101 | 587.247 | 7.380.975 | A | A |
| PE-102 | 586.993 | 7.380.991 | A | A |
| PE-103 | 587.264 | 7.381.014 | A | A |
| PE-104 | 587.434 | 7.381.015 | A | A |
| PE-105 | 587.001 | 7.381.021 | A | A |
| PE-106 | 586.960 | 7.381.042 | A | A |
| PE-107 | 587.227 | 7.381.047 | A | A |
| PE-108 | 587.052 | 7.381.121 | A | A |
| PE-109 | 587.124 | 7.381.121 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-110 | 587.283 | 7.381.122 | A | A |
| PE-111 | 586.881 | 7.381.122 | A | A |
| PE-112 | 587.419 | 7.381.129 | A | A |
| PE-113 | 587.001 | 7.381.136 | A | NA |
| PE-114 | 587.031 | 7.381.153 | A | A |
| PE-115 | 586.877 | 7.381.154 | A | A |
| PE-116 | 586.848 | 7.381.163 | A | A |
| PE-117 | 586.966 | 7.381.179 | A | A |
| PE-118 | 587.009 | 7.381.193 | A | A |
| PE-119 | 587.041 | 7.381.194 | A | A |
| PE-120 | 587.382 | 7.381.200 | A | A |
| PE-121 | 586.980 | 7.381.209 | A | A |
| PE-122 | 586.922 | 7.381.237 | A | A |
| PE-123 | 586.979 | 7.381.241 | A | A |
| PE-124 | 587.124 | 7.381.247 | A | A |
| PE-125 | 587.256 | 7.381.248 | A | A |
| PE-126 | 586.880 | 7.381.250 | A | A |
| PE-127 | 587.314 | 7.381.251 | A | A |
| PE-128 | 586.876 | 7.381.296 | A | A |
| PE-129 | 587.046 | 7.381.303 | A | A |
| PE-130 | 586.930 | 7.381.305 | A | A |
| PE-131 | 587.229 | 7.381.320 | A | A |
| PE-132 | 586.860 | 7.381.329 | A | A |
| PE-133 | 587.048 | 7.381.335 | A | A |
| PE-134 | 586.991 | 7.381.338 | A | A |
| PE-135 | 587.099 | 7.381.340 | A | A |
| PE-136 | 587.179 | 7.381.345 | A | A |
| PE-137 | 586.793 | 7.381.363 | A | A |
| PE-138 | 587.219 | 7.381.367 | A | A |
| PE-139 | 587.020 | 7.381.370 | A | A |
| PE-140 | 586.967 | 7.381.376 | A | A |
| PE-141 | 586.845 | 7.381.382 | A | A |
| PE-142 | 586.763 | 7.381.389 | A | A |
| PE-143 | 586.962 | 7.381.427 | A | A |
| PE-144 | 587.051 | 7.381.433 | A | A |
| PE-145 | 587.185 | 7.381.434 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-146 | 587.014 | 7.381.443 | A | A |
| PE-147 | 587.074 | 7.381.453 | A | A |
| PE-148 | 586.991 | 7.381.472 | A | A |
| PE-149 | 587.050 | 7.381.475 | A | A |
| PE-150 | 586.650 | 7.381.482 | A | A |
| PE-151 | 586.913 | 7.381.488 | A | A |
| PE-152 | 587.018 | 7.381.491 | A | A |
| PE-153 | 586.903 | 7.381.524 | A | A |
| PE-154 | 586.662 | 7.381.528 | A | A |
| PE-155 | 586.595 | 7.381.553 | A | A |
| PE-156 | 586.714 | 7.381.555 | A | A |
| PE-157 | 586.991 | 7.381.570 | A | A |
| PE-158 | 586.958 | 7.381.575 | A | A |
| PE-159 | 586.668 | 7.381.581 | A | A |
| PE-160 | 586.604 | 7.381.584 | A | A |
| PE-161 | 586.570 | 7.381.597 | A | A |
| PE-162 | 586.994 | 7.381.609 | A | A |
| PE-163 | 586.699 | 7.381.614 | A | A |
| PE-164 | 586.591 | 7.381.632 | A | A |
| PE-165 | 586.936 | 7.381.654 | A | A |
| PE-166 | 586.884 | 7.381.657 | A | A |
| PE-167 | 586.768 | 7.381.659 | A | A |
| PE-168 | 586.829 | 7.381.661 | A | A |
| PE-169 | 586.939 | 7.381.704 | A | A |
| PE-170 | 586.842 | 7.381.708 | A | A |
| PE-171 | 586.714 | 7.381.722 | A | A |
| PE-172 | 586.873 | 7.381.722 | A | A |
| PE-173 | 586.905 | 7.381.725 | A | A |
| PE-174 | 586.763 | 7.381.736 | A | A |
| PE-175 | 586.848 | 7.381.745 | A | A |
| PE-176 | 586.734 | 7.381.756 | A | A |
| PE-VC-001 | 584.886 | 7.384.185 | A | A |
| PE-VC-002 | 584.926 | 7.384.185 | A | A |
| PE-VC-003 | 584.966 | 7.384.185 | A | A |
| PE-VC-004 | 585.006 | 7.384.185 | A | A |
| PE-VC-005 | 585.046 | 7.384.186 | A | A |

| PUNTOS DE MONITOREO | COORDENADAS DATUM WGS 84, HUSO 19 S | | VALID_M8 | MOD_M8 |
|---------------------|-------------------------------------|-----------|----------|--------|
| | Este | Norte | | |
| PE-VC-006 | 585.086 | 7.384.186 | A | A |

1.4 Cuadro comparativo de diferencias implementadas en el estudio actual respecto a la línea de base (Adenda 5 RWL, 2015).

| MATERIALES Y MÉTODOS CON MODIFICACIÓN | LÍNEA DE BASE (Adenda 5 RWL, 2015) | MONITOREO FASE DE OPERACIÓN (CEDREM Consultores) | DESCRIPCIÓN DE MODIFICACIÓN APLICADA |
|--|---|--|---|
| 1. Imágenes satelitales de alta resolución | Worldview 2, Geoeyes 1 y Quickbird 2. | Pleiades 1A | Cambio efectuado con el fin de acortar -a una semana- el plazo de captura de las imágenes (para toda el área de estudio) y de tal forma que coincidieran con las fechas de validación en terreno. Cabe destacar que son mínimas las diferencias de resolución -espectral y espacial-, entre estas imágenes; por lo mismo conducen a poca variación en los análisis realizados. |
| 2. Validación en terreno | No especificado | Índice <i>Kappa</i> en base a diseño de muestreo estadístico aleatorio – estratificado, por sistema lagunar. | Contribuye a realizar una evaluación numérica de la certidumbre en el modelo y, por ende, conocer la bondad de ajuste en las coberturas obtenidas. |
| 3. Procesamiento de imágenes satelitales – Corrección atmosférica | IARR (por su sigla inglés, promedio interno de reflectancia relativa). | Proceso de remoción del error atmosférico proporcionado por el modelo de <i>Airbus</i> ~ ATCOR (por su sigla en inglés, Atmospheric & Topographic Correction) | Este modelo propende la remoción del efecto atmosférico, mientras que IARR lo estandariza sobre la imagen. Por lo mismo, genera una respuesta espectral – corregida- más clara en los objetos de clasificación. La corrección utilizada (con mejor efecto de remoción del error atmosférico), conllevó a que tanto los parámetros espectrales, como el modelo de clasificación, fueran más sensibles a la detección de cuerpos de agua. |
| 4. Parámetros espectrales del modelo de clasificación | <ul style="list-style-type: none"> • NDWI, • Reflectancia NIR y • Reclasificación de bandas espectrales. | <ul style="list-style-type: none"> • NDWI, • Reflectancia NIR, • Reclasificación de bandas espectrales (en Pleiades 1A), • NDVI, | Esta modificación, se realizó con el fin de robustecer el modelo ya desarrollado y en consideración que los suelos salinos afectan la reflectancia del suelo y puede conducir a errores significativos |

| MATERIALES Y MÉTODOS CON MODIFICACIÓN | LÍNEA DE BASE (Adenda 5 RWL, 2015) | MONITOREO FASE DE OPERACIÓN (CEDREM Consultores) | DESCRIPCIÓN DE MODIFICACIÓN APLICADA |
|---|---|---|--|
| | | <ul style="list-style-type: none"> Transformada <i>Tasseled Cap</i> "Wetness" (en Landsat 8) | durante interpretaciones espectrales. En el modelo de clasificación, la incorporación de más parámetros espectrales, condujo principalmente a una mayor sensibilidad en la detección de cuerpos de agua. |
| 5. Umbrales de clasificación | Clasificación asistida (procedimiento no especificado) | Mejor respuesta entre métodos de clasificación de datos por cuantiles, intervalos equivalentes y quiebres naturales. Además, clasificación asistida en base al patrón de coberturas de línea de base. | Esta modificación, se basó en establecer <i>métricas estadísticas</i> que podrán ser replicables en los monitoreos posteriores, más allá del valor número del umbral, el cual puede estar sujeto a variaciones multitemporales y entre imágenes satelitales. |
| 6. Regla de clasificación de pixeles en cuerpo de agua | Cumplía con los umbrales de corte de los tres parámetros espectrales de clasificación. | Cumplía con los umbrales de corte en tres de los cuatro parámetros espectrales de clasificación. | Esta modificación, se realizó con el fin de robustecer el modelo ya desarrollado y en consideración de evitar errores significativos durante interpretaciones espectrales. Por lo mismo, se clasificaron en cuerpos de agua a los pixeles que tuvieran una alta probabilidad de pertenecer a este tipo de recubrimiento. |
| 7. Fechas de medición | Durante invierno altioplánico: Enero- abril. | Durante Invierno y Verano ~ Agosto y Diciembre del 2016 al 2018 | Corresponde con lo establecido por el Plan de Manejo Biótico. Esta modificación, influye sobre las coberturas lagunares, según variaciones estacionales intranuales propias de los sistemas en el área de estudio. |

Fuente: Elaboración propia

1.5 Metadata de Imágenes de alta resolución – Pleiades 1A

1.5.1 Invierno 2019

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1.5.2 Verano 2019

1.5.2.1 Metadata de Imágenes Sector Sur del Salar de Atacama

- DIM_PHR1A_MS_201912201459330_ORT_4720579101-2.XML

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- DIM_PHR1A_MS_201912201459426_ORT_4720578101-2.XML

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1.5.2.2 Metadata de Imágenes Sector Norte del Salar de Atacama

- DIM_PHR1A_MS_201912201459330_ORT_4720581101-2.XML

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  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
    <Component>
      <COMPONENT_TITLE>Saturation_Cotation Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
      <COMPONENT_PATH href="MASKS/SLT_PHR1A_MS_201912201459330_ORT_4720581101-2_MSK.GML"/>
    </Component>
  </Quality_Mask>
</Imaging_Quality_Measurement>
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  <QUALITY_TABLES>PHR</QUALITY_TABLES>
  <MEASURE_NAME>Visibility_Cotation (VIS)</MEASURE_NAME>
  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
    <Component>
      <COMPONENT_TITLE>Visibility_Cotation Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
      <COMPONENT_PATH href="MASKS/VIS_PHR1A_MS_201912201459330_ORT_4720581101-2_MSK.GML"/>
    </Component>
  </Quality_Mask>
</Imaging_Quality_Measurement>
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  <QUALITY_TABLES>PHR</QUALITY_TABLES>
  <MEASURE_NAME>Snow_Cotation (SNW)</MEASURE_NAME>
  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
    <Component>
      <COMPONENT_TITLE>Snow_Cotation Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
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<COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
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  <MEASURE_NAME>Cloud_Cotation (CLD)</MEASURE_NAME>
  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
    <Component>
      <COMPONENT_TITLE>Cloud_Cotation Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
      <COMPONENT_PATH href="MASKS/CLD_PHR1A_MS_201912201459330_ORT_4720581101-2_MSK.GML"/>
    </Component>
  </Quality_Mask>
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  <QUALITY_TABLES>PHR</QUALITY_TABLES>
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  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
    <Component>
      <COMPONENT_TITLE>Technical_Index Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
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</Imaging_Quality_Measurement>
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<Dataset_Sources>
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    <SOURCE_ID>DS_PHR1A_201912201459330_FR1_PX_W069S24_1115_02316</SOURCE_ID>
    <SOURCE_TYPE>Strip_Source</SOURCE_TYPE>
    <SOURCE_DESCRIPTION>PHR1A Data Strip</SOURCE_DESCRIPTION>
    <Strip_Source>
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      <MISSION_INDEX>1A</MISSION_INDEX>
      <INSTRUMENT>PHR</INSTRUMENT>
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      <IMAGING_DATE>2019-12-20</IMAGING_DATE>
      <IMAGING_TIME>14:59:33.0Z</IMAGING_TIME>
      <BAND_MODE>PX</BAND_MODE>
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    <Component>
      <COMPONENT_TITLE>Strip Source</COMPONENT_TITLE>
      <COMPONENT_CONTENT>Lineage Information</COMPONENT_CONTENT>
      <COMPONENT_TYPE>DIMAP</COMPONENT_TYPE>
      <COMPONENT_PATH
href="LINEAGE/STRIP_DS_PHR1A_201912201459330_FR1_PX_W069S24_1115_02316_DIM.XML"/>
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<SOURCE_DESCRIPTION>Reference3D ORTHO Layer</SOURCE_DESCRIPTION>
<Component>
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  <COMPONENT_CONTENT>Lineage Information</COMPONENT_CONTENT>
  <COMPONENT_TYPE>DIMAP</COMPONENT_TYPE>
  <COMPONENT_PATH href="LINEAGE/GROUND_R3D_OR_SPOTView_S24W069_DIM.XML"/>
</Component>
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  <SOURCE_TYPE>Height_Source</SOURCE_TYPE>
  <SOURCE_DESCRIPTION>Reference3D DTED2 Layer</SOURCE_DESCRIPTION>
  <Component>
    <COMPONENT_TITLE>Source for Vertical reset</COMPONENT_TITLE>
    <COMPONENT_CONTENT>Lineage Information</COMPONENT_CONTENT>
    <COMPONENT_TYPE>DIMAP</COMPONENT_TYPE>
    <COMPONENT_PATH href="LINEAGE/HEIGHT_R3D_DT2_S24W069_DIM.XML"/>
  </Component>
</Source_Identification>
</Dataset_Sources>
</Dimap_Document>

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1.6 Metadata de Imágenes de media resolución – Landsat 8

1.6.1 Invierno 2019

```

GROUP = L1_METADATA_FILE
GROUP = METADATA_FILE_INFO
ORIGIN = "Image courtesy of the U.S. Geological Survey"
REQUEST_ID = "0501909048560_00008"
LANDSAT_SCENE_ID = "LC82330762019247LGN00"
LANDSAT_PRODUCT_ID = "LC08_L1TP_233076_20190904_20190904_01_RT"
COLLECTION_NUMBER = 01
FILE_DATE = 2019-09-04T22:00:23Z
STATION_ID = "LGN"
PROCESSING_SOFTWARE_VERSION = "LPGS_13.1.0"
END_GROUP = METADATA_FILE_INFO
GROUP = PRODUCT_METADATA
DATA_TYPE = "L1TP"
COLLECTION_CATEGORY = "RT"
ELEVATION_SOURCE = "GLS2000"
OUTPUT_FORMAT = "GEOTIFF"
SPACECRAFT_ID = "LANDSAT_8"
SENSOR_ID = "OLI_TIRS"
WRS_PATH = 233
WRS_ROW = 76
NADIR_OFFNADIR = "NADIR"
TARGET_WRS_PATH = 233
TARGET_WRS_ROW = 76
DATE_ACQUIRED = 2019-09-04
SCENE_CENTER_TIME = "14:31:05.4256539Z"
CORNER_UL_LAT_PRODUCT = -22.06100

```

CORNER_UL_LON_PRODUCT = -69.24909
CORNER_UR_LAT_PRODUCT = -22.04910
CORNER_UR_LON_PRODUCT = -67.01066
CORNER_LL_LAT_PRODUCT = -24.17477
CORNER_LL_LON_PRODUCT = -69.25302
CORNER_LR_LAT_PRODUCT = -24.16160
CORNER_LR_LON_PRODUCT = -66.97929
CORNER_UL_PROJECTION_X_PRODUCT = 474300.000
CORNER_UL_PROJECTION_Y_PRODUCT = -2439600.000
CORNER_UR_PROJECTION_X_PRODUCT = 705300.000
CORNER_UR_PROJECTION_Y_PRODUCT = -2439600.000
CORNER_LL_PROJECTION_X_PRODUCT = 474300.000
CORNER_LL_PROJECTION_Y_PRODUCT = -2673600.000
CORNER_LR_PROJECTION_X_PRODUCT = 705300.000
CORNER_LR_PROJECTION_Y_PRODUCT = -2673600.000
PANCHROMATIC_LINES = 15601
PANCHROMATIC_SAMPLES = 15401
REFLECTIVE_LINES = 7801
REFLECTIVE_SAMPLES = 7701
THERMAL_LINES = 7801
THERMAL_SAMPLES = 7701
FILE_NAME_BAND_1 = "LC08_L1TP_233076_20190904_20190904_01_RT_B1.TIF"
FILE_NAME_BAND_2 = "LC08_L1TP_233076_20190904_20190904_01_RT_B2.TIF"
FILE_NAME_BAND_3 = "LC08_L1TP_233076_20190904_20190904_01_RT_B3.TIF"
FILE_NAME_BAND_4 = "LC08_L1TP_233076_20190904_20190904_01_RT_B4.TIF"
FILE_NAME_BAND_5 = "LC08_L1TP_233076_20190904_20190904_01_RT_B5.TIF"
FILE_NAME_BAND_6 = "LC08_L1TP_233076_20190904_20190904_01_RT_B6.TIF"
FILE_NAME_BAND_7 = "LC08_L1TP_233076_20190904_20190904_01_RT_B7.TIF"
FILE_NAME_BAND_8 = "LC08_L1TP_233076_20190904_20190904_01_RT_B8.TIF"
FILE_NAME_BAND_9 = "LC08_L1TP_233076_20190904_20190904_01_RT_B9.TIF"
FILE_NAME_BAND_10 = "LC08_L1TP_233076_20190904_20190904_01_RT_B10.TIF"
FILE_NAME_BAND_11 = "LC08_L1TP_233076_20190904_20190904_01_RT_B11.TIF"
FILE_NAME_BAND_QUALITY = "LC08_L1TP_233076_20190904_20190904_01_RT_BQA.TIF"
ANGLE_COEFFICIENT_FILE_NAME = "LC08_L1TP_233076_20190904_20190904_01_RT_ANG.txt"
METADATA_FILE_NAME = "LC08_L1TP_233076_20190904_20190904_01_RT_MTL.txt"
CPF_NAME = "LC08CPF_20190701_20190930_01.02"
BPF_NAME_OLI = "LO8BPF20190904135747_20190904153617.01"
BPF_NAME_TIRS = "LT8BPF20190830113009_20190830113825.01"
RLUT_FILE_NAME = "LC08RLUT_20150303_20431231_01_12.h5"
END_GROUP = PRODUCT_METADATA
GROUP = IMAGE_ATTRIBUTES
CLOUD_COVER = 8.14
CLOUD_COVER_LAND = 8.14
IMAGE_QUALITY_OLI = 9
IMAGE_QUALITY_TIRS = 7
TIRS_SSM_MODEL = "PRELIMINARY"
TIRS_SSM_POSITION_STATUS = "ESTIMATED"
TIRS_STRAY_LIGHT_CORRECTION_SOURCE = "TIRS"
ROLL_ANGLE = -0.001
SUN_AZIMUTH = 47.81120962
SUN_ELEVATION = 47.77700338
EARTH_SUN_DISTANCE = 1.0085634

```
SATURATION_BAND_1 = "Y"
SATURATION_BAND_2 = "N"
SATURATION_BAND_3 = "N"
SATURATION_BAND_4 = "N"
SATURATION_BAND_5 = "N"
SATURATION_BAND_6 = "N"
SATURATION_BAND_7 = "Y"
SATURATION_BAND_8 = "N"
SATURATION_BAND_9 = "N"
GROUND_CONTROL_POINTS_VERSION = 4
GROUND_CONTROL_POINTS_MODEL = 394
GEOMETRIC_RMSE_MODEL = 5.585
GEOMETRIC_RMSE_MODEL_Y = 3.600
GEOMETRIC_RMSE_MODEL_X = 4.271
GROUND_CONTROL_POINTS_VERIFY = 139
GEOMETRIC_RMSE_VERIFY = 2.755
TRUNCATION_OLI = "UPPER"
END_GROUP = IMAGE_ATTRIBUTES
GROUP = MIN_MAX_RADIANCE
RADIANCE_MAXIMUM_BAND_1 = 747.21057
RADIANCE_MINIMUM_BAND_1 = -61.70490
RADIANCE_MAXIMUM_BAND_2 = 765.15277
RADIANCE_MINIMUM_BAND_2 = -63.18657
RADIANCE_MAXIMUM_BAND_3 = 705.08173
RADIANCE_MINIMUM_BAND_3 = -58.22588
RADIANCE_MAXIMUM_BAND_4 = 594.56464
RADIANCE_MINIMUM_BAND_4 = -49.09934
RADIANCE_MAXIMUM_BAND_5 = 363.84390
RADIANCE_MINIMUM_BAND_5 = -30.04635
RADIANCE_MAXIMUM_BAND_6 = 90.48467
RADIANCE_MINIMUM_BAND_6 = -7.47225
RADIANCE_MAXIMUM_BAND_7 = 30.49818
RADIANCE_MINIMUM_BAND_7 = -2.51855
RADIANCE_MAXIMUM_BAND_8 = 672.88354
RADIANCE_MINIMUM_BAND_8 = -55.56694
RADIANCE_MAXIMUM_BAND_9 = 142.19844
RADIANCE_MINIMUM_BAND_9 = -11.74279
RADIANCE_MAXIMUM_BAND_10 = 22.00180
RADIANCE_MINIMUM_BAND_10 = 0.10033
RADIANCE_MAXIMUM_BAND_11 = 22.00180
RADIANCE_MINIMUM_BAND_11 = 0.10033
END_GROUP = MIN_MAX_RADIANCE
GROUP = MIN_MAX_REFLECTANCE
REFLECTANCE_MAXIMUM_BAND_1 = 1.210700
REFLECTANCE_MINIMUM_BAND_1 = -0.099980
REFLECTANCE_MAXIMUM_BAND_2 = 1.210700
REFLECTANCE_MINIMUM_BAND_2 = -0.099980
REFLECTANCE_MAXIMUM_BAND_3 = 1.210700
REFLECTANCE_MINIMUM_BAND_3 = -0.099980
REFLECTANCE_MAXIMUM_BAND_4 = 1.210700
REFLECTANCE_MINIMUM_BAND_4 = -0.099980
REFLECTANCE_MAXIMUM_BAND_5 = 1.210700
```

REFLECTANCE_MINIMUM_BAND_5 = -0.099980
REFLECTANCE_MAXIMUM_BAND_6 = 1.210700
REFLECTANCE_MINIMUM_BAND_6 = -0.099980
REFLECTANCE_MAXIMUM_BAND_7 = 1.210700
REFLECTANCE_MINIMUM_BAND_7 = -0.099980
REFLECTANCE_MAXIMUM_BAND_8 = 1.210700
REFLECTANCE_MINIMUM_BAND_8 = -0.099980
REFLECTANCE_MAXIMUM_BAND_9 = 1.210700
REFLECTANCE_MINIMUM_BAND_9 = -0.099980
END_GROUP = MIN_MAX_REFLECTANCE
GROUP = MIN_MAX_PIXEL_VALUE
QUANTIZE_CAL_MAX_BAND_1 = 65535
QUANTIZE_CAL_MIN_BAND_1 = 1
QUANTIZE_CAL_MAX_BAND_2 = 65535
QUANTIZE_CAL_MIN_BAND_2 = 1
QUANTIZE_CAL_MAX_BAND_3 = 65535
QUANTIZE_CAL_MIN_BAND_3 = 1
QUANTIZE_CAL_MAX_BAND_4 = 65535
QUANTIZE_CAL_MIN_BAND_4 = 1
QUANTIZE_CAL_MAX_BAND_5 = 65535
QUANTIZE_CAL_MIN_BAND_5 = 1
QUANTIZE_CAL_MAX_BAND_6 = 65535
QUANTIZE_CAL_MIN_BAND_6 = 1
QUANTIZE_CAL_MAX_BAND_7 = 65535
QUANTIZE_CAL_MIN_BAND_7 = 1
QUANTIZE_CAL_MAX_BAND_8 = 65535
QUANTIZE_CAL_MIN_BAND_8 = 1
QUANTIZE_CAL_MAX_BAND_9 = 65535
QUANTIZE_CAL_MIN_BAND_9 = 1
QUANTIZE_CAL_MAX_BAND_10 = 65535
QUANTIZE_CAL_MIN_BAND_10 = 1
QUANTIZE_CAL_MAX_BAND_11 = 65535
QUANTIZE_CAL_MIN_BAND_11 = 1
END_GROUP = MIN_MAX_PIXEL_VALUE
GROUP = RADIOMETRIC_RESCALING
RADIANCE_MULT_BAND_1 = 1.2343E-02
RADIANCE_MULT_BAND_2 = 1.2640E-02
RADIANCE_MULT_BAND_3 = 1.1648E-02
RADIANCE_MULT_BAND_4 = 9.8218E-03
RADIANCE_MULT_BAND_5 = 6.0105E-03
RADIANCE_MULT_BAND_6 = 1.4947E-03
RADIANCE_MULT_BAND_7 = 5.0381E-04
RADIANCE_MULT_BAND_8 = 1.1116E-02
RADIANCE_MULT_BAND_9 = 2.3490E-03
RADIANCE_MULT_BAND_10 = 3.3420E-04
RADIANCE_MULT_BAND_11 = 3.3420E-04
RADIANCE_ADD_BAND_1 = -61.71724
RADIANCE_ADD_BAND_2 = -63.19920
RADIANCE_ADD_BAND_3 = -58.23753
RADIANCE_ADD_BAND_4 = -49.10916
RADIANCE_ADD_BAND_5 = -30.05236
RADIANCE_ADD_BAND_6 = -7.47375

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RADIANCE_ADD_BAND_7 = -2.51905
RADIANCE_ADD_BAND_8 = -55.57806
RADIANCE_ADD_BAND_9 = -11.74514
RADIANCE_ADD_BAND_10 = 0.10000
RADIANCE_ADD_BAND_11 = 0.10000
REFLECTANCE_MULT_BAND_1 = 2.0000E-05
REFLECTANCE_MULT_BAND_2 = 2.0000E-05
REFLECTANCE_MULT_BAND_3 = 2.0000E-05
REFLECTANCE_MULT_BAND_4 = 2.0000E-05
REFLECTANCE_MULT_BAND_5 = 2.0000E-05
REFLECTANCE_MULT_BAND_6 = 2.0000E-05
REFLECTANCE_MULT_BAND_7 = 2.0000E-05
REFLECTANCE_MULT_BAND_8 = 2.0000E-05
REFLECTANCE_MULT_BAND_9 = 2.0000E-05
REFLECTANCE_ADD_BAND_1 = -0.10000
REFLECTANCE_ADD_BAND_2 = -0.10000
REFLECTANCE_ADD_BAND_3 = -0.10000
REFLECTANCE_ADD_BAND_4 = -0.10000
REFLECTANCE_ADD_BAND_5 = -0.10000
REFLECTANCE_ADD_BAND_6 = -0.10000
REFLECTANCE_ADD_BAND_7 = -0.10000
REFLECTANCE_ADD_BAND_8 = -0.10000
REFLECTANCE_ADD_BAND_9 = -0.10000
END_GROUP = RADIOMETRIC_RESCALING
GROUP = TIRS_THERMAL_CONSTANTS
K1_CONSTANT_BAND_10 = 774.8853
K2_CONSTANT_BAND_10 = 1321.0789
K1_CONSTANT_BAND_11 = 480.8883
K2_CONSTANT_BAND_11 = 1201.1442
END_GROUP = TIRS_THERMAL_CONSTANTS
GROUP = PROJECTION_PARAMETERS
MAP_PROJECTION = "UTM"
DATUM = "WGS84"
ELLIPSOID = "WGS84"
UTM_ZONE = 19
GRID_CELL_SIZE_PANCHROMATIC = 15.00
GRID_CELL_SIZE_REFLECTIVE = 30.00
GRID_CELL_SIZE_THERMAL = 30.00
ORIENTATION = "NORTH_UP"
RESAMPLING_OPTION = "CUBIC_CONVOLUTION"
END_GROUP = PROJECTION_PARAMETERS
END_GROUP = L1_METADATA_FILE
END
```

1.6.2 Verano 2019

```
GROUP = FILE_HEADER
LANDSAT_SCENE_ID = "LC82330762019359LGN00"
SPACECRAFT_ID = "LANDSAT_8"
NUMBER_OF_BANDS = 11
```

```

BAND_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)
END_GROUP = FILE_HEADER
GROUP = PROJECTION
ELLIPSOID_AXES = (6378137.000000, 6356752.314200)
MAP_PROJECTION = "UTM"
PROJECTION_UNITS = "METERS"
DATUM = "WGS84"
ELLIPSOID = "WGS84"
UTM_ZONE = 19
PROJECTION_PARAMETERS = (0.000000, 0.000000, 0.000000, 0.000000, 0.000000,
    0.000000, 0.000000, 0.000000, 0.000000, 0.000000,
    0.000000, 0.000000, 0.000000, 0.000000, 0.000000)
UL_CORNER = ( 475200.000, -243990.000)
UR_CORNER = ( 706200.000, -243990.000)
LL_CORNER = ( 475200.000, -2673600.000)
LR_CORNER = ( 706200.000, -2673600.000)
END_GROUP = PROJECTION
GROUP = EPHEMERIS
EPHEMERIS_EPOCH_YEAR = 2019
EPHEMERIS_EPOCH_DAY = 359
EPHEMERIS_EPOCH_SECONDS = 52241.716065
NUMBER_OF_POINTS = 55
EPHEMERIS_TIME = ( 0.000000, 1.000000, 2.000000, 3.000000, 4.000000,
    5.000000, 6.000000, 7.000000, 8.000000, 9.000000,
    10.000000, 11.000000, 12.000000, 13.000000, 14.000000,
    15.000000, 16.000000, 17.000000, 18.000000, 19.000000,
    20.000000, 21.000000, 22.000000, 23.000000, 24.000000,
    25.000000, 26.000000, 27.000000, 28.000000, 29.000000,
    30.000000, 31.000000, 32.000000, 33.000000, 34.000000,
    35.000000, 36.000000, 37.000000, 38.000000, 39.000000,
    40.000000, 41.000000, 42.000000, 43.000000, 44.000000,
    45.000000, 46.000000, 47.000000, 48.000000, 49.000000,
    50.000000, 51.000000, 52.000000, 53.000000, 54.000000)
EPHEMERIS_ECEF_X = ( 2498526.623782, 2495995.160420, 2493461.338678, 2490924.804565, 2488385.898373,
    2485844.405282, 2483300.469623, 2480753.996697, 2478204.978861, 2475653.608266,
    2473099.596476, 2470543.318541, 2467984.517878, 2465423.095431, 2462859.252755,
    2460292.780195, 2457724.203970, 2455152.993343, 2452579.299574, 2450003.249206,
    2447424.709248, 2444843.721569, 2442260.208761, 2439674.322239, 2437086.187282,
    2434495.594127, 2431902.445018, 2429306.999678, 2426709.158361, 2424109.093530,
    2421506.524979, 2418901.638881, 2416294.123616, 2413684.332743, 2411072.157537,
    2408457.628572, 2405840.652523, 2403221.271223, 2400599.737521, 2397975.727746,
    2395349.414728, 2392720.613689, 2390089.489499, 2387456.002608, 2384820.178525,
    2382182.095397, 2379541.481775, 2376898.804716, 2374253.625123, 2371606.050040,
    2368956.241647, 2366304.158825, 2363649.764553, 2360993.214682, 2358334.251963)
EPHEMERIS_ECEF_Y = (-6106494.205082, -6104611.133659, -6102721.066858, -6100823.424616, -6098918.730105,
    -6097006.686521, -6095087.691167, -6093161.571332, -6091228.134901, -6089287.575205,
    -6087339.810591, -6085385.079225, -6083422.964826, -6081453.651765, -6079477.221408,
    -6077493.400069, -6075502.918991, -6073505.024651, -6071500.126730, -6069488.075017,
    -6067468.800755, -6065442.485233, -6063408.749871, -6061367.895942, -6059320.319724,
    -6057265.338336, -6055203.006867, -6053133.744872, -6051057.483348, -6048974.118778,
    -6046883.533503, -6044786.000451, -6042681.058476, -6040569.213654, -6038450.050810,
    -6036323.748902, -6034190.513213, -6032049.965465, -6029902.628296, -6027748.018887,
    
```



```

-6025586.433346, -6023417.468511, -6021241.708081, -6019058.641119, -6016868.549560,
-6014671.344728, -6012467.089146, -6010255.744440, -6008037.219640, -6005811.561272,
-6003578.923359, -6001339.148222, -5999092.267187, -5996838.505244, -5994577.643069)
EPHEMERIS_ECEF_Z = (-2585191.391839, -2592091.895296, -2598989.586594, -2605884.174347, -2612775.910103,
-2619664.632634, -2626550.490807, -2633433.397728, -2640313.281793, -2647190.252575,
-2654064.186088, -2660935.261949, -2667803.263177, -2674668.209138, -2681530.172116,
-2688388.993908, -2695245.060785, -2702097.958771, -2708947.855155, -2715794.732500,
-2722638.521058, -2729479.276773, -2736316.845639, -2743151.363553, -2749982.989724,
-2756811.424575, -2763636.647467, -2770458.870963, -2777278.025757, -2784094.125305,
-2790907.032765, -2797716.888199, -2804523.428435, -2811326.925404, -2818127.196869,
-2824924.304428, -2831718.272715, -2838508.981188, -2845296.680477, -2852081.089978,
-2858862.358018, -2865640.275971, -2872415.092658, -2879186.603481, -2885954.907342,
-2892719.988496, -2899481.771413, -2906240.385550, -2912995.644801, -2919747.591143,
-2926496.326501, -2933241.763971, -2939983.896786, -2946722.846741, -2953458.440928)
END_GROUP = EPHEMERIS
GROUP = SOLAR_VECTOR
SOLAR_EPOCH_YEAR = 2019
SOLAR_EPOCH_DAY = 359
SOLAR_EPOCH_SECONDS = 52241.716065
EARTH_SUN_DISTANCE = 0.98352058
NUMBER_OF_POINTS = 55
SAMPLE_TIME = ( 0.000000, 1.000000, 2.000000, 3.000000, 4.000000,
5.000000, 6.000000, 7.000000, 8.000000, 9.000000,
10.000000, 11.000000, 12.000000, 13.000000, 14.000000,
15.000000, 16.000000, 17.000000, 18.000000, 19.000000,
20.000000, 21.000000, 22.000000, 23.000000, 24.000000,
25.000000, 26.000000, 27.000000, 28.000000, 29.000000,
30.000000, 31.000000, 32.000000, 33.000000, 34.000000,
35.000000, 36.000000, 37.000000, 38.000000, 39.000000,
40.000000, 41.000000, 42.000000, 43.000000, 44.000000,
45.000000, 46.000000, 47.000000, 48.000000, 49.000000,
50.000000, 51.000000, 52.000000, 53.000000, 54.000000)
SOLAR_ECEF_X = ( 7.26347211e-01, 7.26306422e-01, 7.26265628e-01, 7.26224831e-01, 7.26184030e-01,
7.26143224e-01, 7.26102416e-01, 7.26061603e-01, 7.26020787e-01, 7.25979967e-01,
7.25939143e-01, 7.25898315e-01, 7.25857484e-01, 7.25816647e-01, 7.25775808e-01,
7.25734964e-01, 7.25694118e-01, 7.25653267e-01, 7.25612412e-01, 7.25571554e-01,
7.25530690e-01, 7.25489824e-01, 7.25448954e-01, 7.25408080e-01, 7.25367203e-01,
7.25326321e-01, 7.25285436e-01, 7.25244545e-01, 7.25203652e-01, 7.25162756e-01,
7.25121855e-01, 7.25080951e-01, 7.25040042e-01, 7.24999130e-01, 7.24958214e-01,
7.24917293e-01, 7.24876369e-01, 7.24835442e-01, 7.24794511e-01, 7.24753576e-01,
7.24712637e-01, 7.24671694e-01, 7.24630746e-01, 7.24589796e-01, 7.24548841e-01,
7.24507883e-01, 7.24466922e-01, 7.24425956e-01, 7.24384986e-01, 7.24344013e-01,
7.24303034e-01, 7.24262053e-01, 7.24221068e-01, 7.24180080e-01, 7.24139087e-01)
SOLAR_ECEF_Y = (-5.61087320e-01, -5.61140123e-01, -5.61192922e-01, -5.61245719e-01, -5.61298513e-01,
-5.61351306e-01, -5.61404094e-01, -5.61456879e-01, -5.61509661e-01, -5.61562440e-01,
-5.61615216e-01, -5.61667989e-01, -5.61720759e-01, -5.61773528e-01, -5.61826293e-01,
-5.61879054e-01, -5.61931812e-01, -5.61984567e-01, -5.62037320e-01, -5.62090069e-01,
-5.62142817e-01, -5.62195561e-01, -5.62248301e-01, -5.62301039e-01, -5.62353773e-01,
-5.62406505e-01, -5.62459233e-01, -5.62511961e-01, -5.62564684e-01, -5.62617403e-01,
-5.62670120e-01, -5.62722833e-01, -5.62775544e-01, -5.62828252e-01, -5.62880957e-01,
-5.62933661e-01, -5.62986359e-01, -5.63039055e-01, -5.63091748e-01, -5.63144438e-01,
-5.63197125e-01, -5.63249809e-01, -5.63302492e-01, -5.63355170e-01, -5.63407845e-01,
    
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-5.63460517e-01, -5.63513186e-01, -5.63565852e-01, -5.63618515e-01, -5.63671175e-01,
 -5.63723834e-01, -5.63776488e-01, -5.63829140e-01, -5.63881788e-01, -5.63934433e-01)
 SOLAR_ECEF_Z = (-3.96989608e-01, -3.96989603e-01, -3.96989598e-01, -3.96989593e-01, -3.96989588e-01,
 -3.96989583e-01, -3.96989578e-01, -3.96989573e-01, -3.96989569e-01, -3.96989564e-01,
 -3.96989559e-01, -3.96989554e-01, -3.96989549e-01, -3.96989544e-01, -3.96989539e-01,
 -3.96989534e-01, -3.96989529e-01, -3.96989524e-01, -3.96989519e-01, -3.96989514e-01,
 -3.96989509e-01, -3.96989505e-01, -3.96989500e-01, -3.96989495e-01, -3.96989490e-01,
 -3.96989485e-01, -3.96989480e-01, -3.96989475e-01, -3.96989470e-01, -3.96989465e-01,
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 -3.96989436e-01, -3.96989431e-01, -3.96989426e-01, -3.96989421e-01, -3.96989416e-01,
 -3.96989411e-01, -3.96989406e-01, -3.96989401e-01, -3.96989396e-01, -3.96989391e-01,
 -3.96989386e-01, -3.96989382e-01, -3.96989377e-01, -3.96989372e-01, -3.96989367e-01,
 -3.96989362e-01, -3.96989357e-01, -3.96989352e-01, -3.96989347e-01, -3.96989342e-01)
 END_GROUP = SOLAR_VECTOR
 GROUP = RPC_BAND01
 BAND01_NUMBER_OF_SCAS = 14
 BAND01_NUM_L1T_LINES = 7791
 BAND01_NUM_L1T_SAMPS = 7701
 BAND01_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
 BAND01_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
 BAND01_NUM_L1R_LINES = 7501
 BAND01_NUM_L1R_SAMPS = 494
 BAND01_PIXEL_SIZE = 30.000
 BAND01_START_TIME = 10.618265
 BAND01_LINE_TIME = 0.004236000
 BAND01_MEAN_HEIGHT = 3500.000
 BAND01_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
 BAND01_MEAN_L1T_LINE_SAMP = (3900.346, 3857.840)
 BAND01_MEAN_SAT_VECTOR = (-0.002376555, 0.000764066, 0.996304272)
 BAND01_SAT_X_NUM_COEF = (1.444449e-05, -2.855710e-07, -4.710745e-05, -3.161969e-09, -9.793409e-06,
 1.330461e-11, 3.964199e-11, 9.515109e-12, 5.107605e-16, 4.432988e-17)
 BAND01_SAT_X_DEN_COEF = (-2.919204e-06, 0.000000e+00, -1.402891e-06, 2.136564e-06, 3.676198e-11,
 4.304546e-10, 9.536682e-10, -2.050214e-16, -3.911790e-18)
 BAND01_SAT_Y_NUM_COEF = (3.105514e-04, 4.712634e-05, -2.905046e-07, 1.048925e-09, -4.431294e-05,
 -9.238405e-13, -2.568959e-11, -9.529428e-11, -1.287839e-16, -1.950631e-17)
 BAND01_SAT_Y_DEN_COEF = (1.087293e-07, -3.813053e-07, -1.403843e-06, 0.000000e+00, 3.233544e-11,
 5.517410e-10, 9.419826e-10, -9.810790e-17, -1.886113e-17)
 BAND01_SAT_Z_NUM_COEF = (3.670500e-03, -5.125752e-08, -1.101766e-07, -1.036412e-08, 2.535534e-08,
 -5.432640e-11, -4.776990e-10, -1.049970e-09, 1.752687e-16, 9.767289e-20)
 BAND01_SAT_Z_DEN_COEF = (-3.824284e-06, 1.098101e-06, -2.822343e-06, 4.026521e-06, 7.396350e-11,
 6.336950e-10, 1.394949e-09, -3.467958e-17, 7.397318e-17)
 BAND01_MEAN_SUN_VECTOR = (0.463270097, -0.054045388, 0.884483082)
 BAND01_SUN_X_NUM_COEF = (1.800188e-05, -2.463129e-08, -4.051159e-06, -1.917635e-16, -2.440089e-07,
 -2.165068e-13, -8.989075e-12, -5.870635e-12, 1.898803e-18, 2.999148e-18)
 BAND01_SUN_X_DEN_COEF = (1.964935e-07, 0.000000e+00, -3.503377e-12, -1.825614e-07, -1.545355e-11,
 -5.344652e-12, 9.441488e-12, -4.051028e-17, -6.064504e-18)
 BAND01_SUN_Y_NUM_COEF = (2.569087e-05, 4.188598e-06, 9.045345e-07, -1.205492e-13, 5.636810e-08,
 7.013782e-13, 1.115895e-11, -8.243551e-12, 1.401837e-16, -3.580239e-17)
 BAND01_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, 4.643164e-11, -1.252138e-07, 3.210365e-12,
 3.326018e-11, 0.000000e+00, 1.126941e-16, -1.595253e-16)
 BAND01_SUN_Z_NUM_COEF = (7.669696e-05, 2.686669e-07, 2.177056e-06, -2.012817e-15, 1.313363e-07,
 -9.801317e-12, 6.034062e-13, -9.856499e-12, -1.511810e-18, -9.323811e-18)

BAND01_SUN_Z_DEN_COEF = (2.853507e-07, 0.000000e+00, -4.496926e-12, 5.352613e-07, 1.029971e-12,
3.978892e-12, 6.596648e-12, 3.412903e-17, 1.642409e-17)

BAND01_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)

BAND01_SCA01_MEAN_HEIGHT = 3500.000

BAND01_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA01_MEAN_L1T_LINE_SAMP = (3394.838, 956.504)

BAND01_SCA01_LINE_NUM_COEF = (-1.200742e-02, 1.019193e+00, -1.968078e-01, 1.076727e-04, -8.774923e-06)

BAND01_SCA01_LINE_DEN_COEF = (2.793040e-08, -8.073744e-06, -8.328693e-10, 2.159143e-12)

BAND01_SCA01_SAMP_NUM_COEF = (2.353836e-01, 2.265272e-01, 9.945028e-01, -4.624876e-03, 4.421957e-07)

BAND01_SCA01_SAMP_DEN_COEF = (-1.167296e-06, -7.496680e-06, -1.538055e-06, -7.287301e-12)

BAND01_SCA02_MEAN_HEIGHT = 3500.000

BAND01_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA02_MEAN_L1T_LINE_SAMP = (3215.494, 1466.083)

BAND01_SCA02_LINE_NUM_COEF = (-3.158981e-02, 1.017438e+00, -2.050778e-01, -3.046557e-04, -7.165799e-06)

BAND01_SCA02_LINE_DEN_COEF = (1.356043e-08, -6.610896e-06, -1.927016e-10, 2.177719e-12)

BAND01_SCA02_SAMP_NUM_COEF = (2.670813e-01, 2.284489e-01, 1.002987e+00, -3.925134e-03, 4.427030e-07)

BAND01_SCA02_SAMP_DEN_COEF = (-9.019025e-07, -6.306160e-06, -1.547046e-06, -6.878698e-12)

BAND01_SCA03_MEAN_HEIGHT = 3500.000

BAND01_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA03_MEAN_L1T_LINE_SAMP = (3588.995, 1848.499)

BAND01_SCA03_LINE_NUM_COEF = (-3.432732e-02, 1.017066e+00, -2.069109e-01, 1.748675e-04, -8.242773e-06)

BAND01_SCA03_LINE_DEN_COEF = (2.227524e-08, -7.576913e-06, -9.331181e-10, 2.198155e-12)

BAND01_SCA03_SAMP_NUM_COEF = (2.953801e-01, 2.291029e-01, 1.006370e+00, -3.199014e-03, 4.517373e-07)

BAND01_SCA03_SAMP_DEN_COEF = (-7.190017e-07, -5.528401e-06, -1.553100e-06, -6.604410e-12)

BAND01_SCA04_MEAN_HEIGHT = 3500.000

BAND01_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA04_MEAN_L1T_LINE_SAMP = (3411.107, 2352.877)

BAND01_SCA04_LINE_NUM_COEF = (-4.895379e-02, 1.015497e+00, -2.143620e-01, -2.548440e-04, -7.645293e-06)

BAND01_SCA04_LINE_DEN_COEF = (1.674205e-08, -7.026509e-06, -2.409960e-10, 2.211062e-12)

BAND01_SCA04_SAMP_NUM_COEF = (3.288417e-01, 2.305401e-01, 1.012718e+00, -2.481529e-03, 4.513188e-07)

BAND01_SCA04_SAMP_DEN_COEF = (-4.199089e-07, -4.189504e-06, -1.559688e-06, -6.118170e-12)

BAND01_SCA05_MEAN_HEIGHT = 3500.000

BAND01_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA05_MEAN_L1T_LINE_SAMP = (3784.255, 2731.205)

BAND01_SCA05_LINE_NUM_COEF = (-3.430999e-02, 1.014861e+00, -2.173617e-01, 2.179164e-04, -1.238747e-05)

BAND01_SCA05_LINE_DEN_COEF = (6.270621e-08, -1.127182e-05, -1.185525e-09, 2.271655e-12)

BAND01_SCA05_SAMP_NUM_COEF = (3.550878e-01, 2.307493e-01, 1.014144e+00, -1.747460e-03, 4.595400e-07)

BAND01_SCA05_SAMP_DEN_COEF = (-2.441102e-07, -3.441541e-06, -1.563425e-06, -5.858074e-12)

BAND01_SCA06_MEAN_HEIGHT = 3500.000

BAND01_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA06_MEAN_L1T_LINE_SAMP = (3608.207, 3232.393)

BAND01_SCA06_LINE_NUM_COEF = (-6.233403e-02, 1.013602e+00, -2.234461e-01, -2.274336e-04, -8.840162e-06)

BAND01_SCA06_LINE_DEN_COEF = (2.757852e-08, -8.080526e-06, -2.289439e-10, 2.251535e-12)

BAND01_SCA06_SAMP_NUM_COEF = (3.935185e-01, 2.316437e-01, 1.018100e+00, -1.017647e-03, 4.580855e-07)

BAND01_SCA06_SAMP_DEN_COEF = (1.165775e-07, -1.831589e-06, -1.567264e-06, -5.227720e-12)

BAND01_SCA07_MEAN_HEIGHT = 3500.000

BAND01_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND01_SCA07_MEAN_L1T_LINE_SAMP = (3981.671, 3608.571)

BAND01_SCA07_LINE_NUM_COEF = (-6.511446e-02, 1.012664e+00, -2.277905e-01, 2.361161e-04, -9.885462e-06)

BAND01_SCA07_LINE_DEN_COEF = (3.788116e-08, -9.008276e-06, -1.110679e-09, 2.279520e-12)

BAND01_SCA07_SAMP_NUM_COEF = (4.294682e-01, 2.313132e-01, 1.017149e+00, -2.807313e-04, 4.652662e-07)

BAND01_SCA07_SAMP_DEN_COEF = (3.931518e-07, -6.390249e-07, -1.568757e-06, -4.764943e-12)

BAND01_SCA08_MEAN_HEIGHT = 3500.000
BAND01_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA08_MEAN_L1T_LINE_SAMP = (3806.977, 4108.873)
BAND01_SCA08_LINE_NUM_COEF = (-9.257001e-02, 1.011665e+00, -2.327266e-01, -2.225836e-04, -6.530226e-06)
BAND01_SCA08_LINE_DEN_COEF = (2.231932e-09, -6.001017e-06, -3.403937e-10, 2.236747e-12)
BAND01_SCA08_SAMP_NUM_COEF = (4.767118e-01, 2.317177e-01, 1.018942e+00, 4.549719e-04, 4.628678e-07)
BAND01_SCA08_SAMP_DEN_COEF = (8.467141e-07, 1.379843e-06, -1.568498e-06, -3.931841e-12)
BAND01_SCA09_MEAN_HEIGHT = 3500.000
BAND01_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA09_MEAN_L1T_LINE_SAMP = (4182.237, 4484.458)
BAND01_SCA09_LINE_NUM_COEF = (-8.471020e-02, 1.010421e+00, -2.384284e-01, 2.295764e-04, -9.692303e-06)
BAND01_SCA09_LINE_DEN_COEF = (3.586737e-08, -8.813673e-06, -1.086858e-09, 2.300946e-12)
BAND01_SCA09_SAMP_NUM_COEF = (4.984930e-01, 2.308750e-01, 1.015733e+00, 1.188162e-03, 4.690385e-07)
BAND01_SCA09_SAMP_DEN_COEF = (9.994058e-07, 2.029359e-06, -1.567025e-06, -3.713071e-12)
BAND01_SCA10_MEAN_HEIGHT = 3500.000
BAND01_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA10_MEAN_L1T_LINE_SAMP = (4008.846, 4985.746)
BAND01_SCA10_LINE_NUM_COEF = (-9.596125e-02, 1.009690e+00, -2.421867e-01, -2.401532e-04, -9.489663e-06)
BAND01_SCA10_LINE_DEN_COEF = (3.314192e-08, -8.623489e-06, -1.742797e-10, 2.303638e-12)
BAND01_SCA10_SAMP_NUM_COEF = (5.232322e-01, 2.307728e-01, 1.015289e+00, 1.923586e-03, 4.656580e-07)
BAND01_SCA10_SAMP_DEN_COEF = (1.252462e-06, 3.166770e-06, -1.564017e-06, -3.264044e-12)
BAND01_SCA11_MEAN_HEIGHT = 3500.000
BAND01_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA11_MEAN_L1T_LINE_SAMP = (4386.500, 5362.707)
BAND01_SCA11_LINE_NUM_COEF = (-1.079753e-01, 1.008185e+00, -2.490551e-01, 1.974180e-04, -8.775845e-06)
BAND01_SCA11_LINE_DEN_COEF = (2.543575e-08, -7.976722e-06, -9.856388e-10, 2.297121e-12)
BAND01_SCA11_SAMP_NUM_COEF = (5.595041e-01, 2.294441e-01, 1.009934e+00, 2.647247e-03, 4.708297e-07)
BAND01_SCA11_SAMP_DEN_COEF = (1.542834e-06, 4.423269e-06, -1.559153e-06, -2.764195e-12)
BAND01_SCA12_MEAN_HEIGHT = 3500.000
BAND01_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA12_MEAN_L1T_LINE_SAMP = (4214.547, 5867.362)
BAND01_SCA12_LINE_NUM_COEF = (-1.330199e-01, 1.007816e+00, -2.512219e-01, -2.793179e-04, -5.992232e-06)
BAND01_SCA12_LINE_DEN_COEF = (-7.541586e-09, -5.496773e-06, -2.942799e-10, 2.229841e-12)
BAND01_SCA12_SAMP_NUM_COEF = (5.684864e-01, 2.288471e-01, 1.007303e+00, 3.377091e-03, 4.664890e-07)
BAND01_SCA12_SAMP_DEN_COEF = (1.655752e-06, 4.944042e-06, -1.555247e-06, -2.574825e-12)
BAND01_SCA13_MEAN_HEIGHT = 3500.000
BAND01_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA13_MEAN_L1T_LINE_SAMP = (4595.731, 6247.476)
BAND01_SCA13_LINE_NUM_COEF = (-1.140260e-01, 1.005982e+00, -2.595538e-01, 1.402398e-04, -1.087475e-05)
BAND01_SCA13_LINE_DEN_COEF = (4.963880e-08, -9.818864e-06, -9.415997e-10, 2.357510e-12)
BAND01_SCA13_SAMP_NUM_COEF = (6.383400e-01, 2.270274e-01, 9.997775e-01, 4.085218e-03, 4.706203e-07)
BAND01_SCA13_SAMP_DEN_COEF = (2.251858e-06, 7.548106e-06, -1.542174e-06, -1.447092e-12)
BAND01_SCA14_MEAN_HEIGHT = 3500.000
BAND01_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA14_MEAN_L1T_LINE_SAMP = (4425.437, 6757.010)
BAND01_SCA14_LINE_NUM_COEF = (-1.340254e-01, 1.005923e+00, -2.603565e-01, -3.404332e-04, -9.000054e-06)
BAND01_SCA14_LINE_DEN_COEF = (2.593097e-08, -8.152230e-06, -1.482883e-11, 2.304541e-12)
BAND01_SCA14_SAMP_NUM_COEF = (6.354340e-01, 2.259394e-01, 9.949759e-01, 4.802704e-03, 4.653257e-07)
BAND01_SCA14_SAMP_DEN_COEF = (2.258620e-06, 7.601265e-06, -1.537865e-06, -1.459028e-12)
END_GROUP = RPC_BAND01
GROUP = RPC_BAND02
BAND02_NUMBER_OF_SCAS = 14

BAND02_NUM_L1T_LINES = 7791
 BAND02_NUM_L1T_SAMPS = 7701
 BAND02_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
 BAND02_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
 BAND02_NUM_L1R_LINES = 7501
 BAND02_NUM_L1R_SAMPS = 494
 BAND02_PIXEL_SIZE = 30.000
 BAND02_START_TIME = 10.618265
 BAND02_LINE_TIME = 0.004236000
 BAND02_MEAN_HEIGHT = 3500.000
 BAND02_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
 BAND02_MEAN_L1T_LINE_SAMP = (3900.318, 3857.848)
 BAND02_MEAN_SAT_VECTOR = (-0.002377603, 0.000763013, 0.996312283)
 BAND02_SAT_X_NUM_COEF = (1.491980e-05, -2.857359e-07, -4.710775e-05, -3.363780e-09, -9.793321e-06,
 1.106086e-11, 2.054467e-11, -3.108062e-11, 5.158345e-16, 4.438135e-17)
 BAND02_SAT_X_DEN_COEF = (-2.505349e-06, 8.691293e-07, -1.402961e-06, 1.946803e-06, 3.676030e-11,
 4.305547e-10, 9.534864e-10, -2.062165e-16, -2.951221e-18)
 BAND02_SAT_Y_NUM_COEF = (3.102739e-04, 4.712672e-05, -2.904967e-07, 1.047259e-09, -4.431312e-05,
 -9.224243e-13, -2.568843e-11, -9.528747e-11, -1.365240e-16, -1.951173e-17)
 BAND02_SAT_Y_DEN_COEF = (1.087236e-07, -3.809274e-07, -1.403586e-06, 0.000000e+00, 3.270751e-11,
 5.557010e-10, 9.414981e-10, -8.281159e-17, -2.102785e-17)
 BAND02_SAT_Z_NUM_COEF = (3.670563e-03, -5.119709e-08, -1.101866e-07, -1.036691e-08, 2.529954e-08,
 -5.432248e-11, -4.776977e-10, -1.049969e-09, 1.753689e-16, 9.984474e-20)
 BAND02_SAT_Z_DEN_COEF = (-3.825691e-06, 1.098121e-06, -2.822342e-06, 4.029612e-06, 7.355310e-11,
 6.319149e-10, 1.393124e-09, -5.406797e-17, 7.406191e-17)
 BAND02_MEAN_SUN_VECTOR = (0.463270026, -0.054045384, 0.884483162)
 BAND02_SUN_X_NUM_COEF = (1.804433e-05, -2.463124e-08, -4.051159e-06, 3.878976e-16, -2.440091e-07,
 -2.167910e-13, -8.993231e-12, -5.870605e-12, 1.874802e-18, 3.005591e-18)
 BAND02_SUN_X_DEN_COEF = (1.975098e-07, 0.000000e+00, -3.503587e-12, -1.825376e-07, -1.544473e-11,
 -5.349469e-12, 9.437504e-12, -4.057932e-17, -6.079896e-18)
 BAND02_SUN_Y_NUM_COEF = (2.555998e-05, 4.189093e-06, 9.043069e-07, -2.011471e-14, 5.579204e-08,
 6.469392e-13, 3.127885e-11, -4.007593e-12, 2.193072e-17, -1.966761e-17)
 BAND02_SUN_Y_DEN_COEF = (0.000000e+00, 4.740770e-06, -1.065556e-10, -1.389659e-07, 0.000000e+00,
 0.000000e+00, 0.000000e+00, 2.771471e-17, -4.180429e-17)
 BAND02_SUN_Z_NUM_COEF = (7.662595e-05, 2.686673e-07, 2.177056e-06, -1.288307e-15, 1.313367e-07,
 -9.800441e-12, 6.090093e-13, -9.856591e-12, -1.527326e-18, -9.347314e-18)
 BAND02_SUN_Z_DEN_COEF = (2.880150e-07, 0.000000e+00, -4.774087e-12, 5.351746e-07, 1.050377e-12,
 3.981556e-12, 6.575480e-12, 2.333192e-17, 1.655727e-17)
 BAND02_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
 BAND02_SCA01_MEAN_HEIGHT = 3500.000
 BAND02_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
 BAND02_SCA01_MEAN_L1T_LINE_SAMP = (3366.425, 962.960)
 BAND02_SCA01_LINE_NUM_COEF = (-1.133343e-02, 1.019153e+00, -1.970030e-01, 6.108226e-05, -8.967302e-06)
 BAND02_SCA01_LINE_DEN_COEF = (2.973190e-08, -8.246380e-06, -7.517600e-10, 2.160267e-12)
 BAND02_SCA01_SAMP_NUM_COEF = (2.344358e-01, 2.265754e-01, 9.946907e-01, -4.625780e-03, 4.417295e-07)
 BAND02_SCA01_SAMP_DEN_COEF = (-1.172806e-06, -7.518226e-06, -1.537958e-06, -7.296312e-12)
 BAND02_SCA02_MEAN_HEIGHT = 3500.000
 BAND02_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
 BAND02_SCA02_MEAN_L1T_LINE_SAMP = (3243.782, 1459.607)
 BAND02_SCA02_LINE_NUM_COEF = (-3.003151e-02, 1.017462e+00, -2.049546e-01, -2.578450e-04, -7.465864e-06)
 BAND02_SCA02_LINE_DEN_COEF = (1.634414e-08, -6.880866e-06, -2.457703e-10, 2.178047e-12)
 BAND02_SCA02_SAMP_NUM_COEF = (2.662747e-01, 2.284001e-01, 1.002796e+00, -3.924423e-03, 4.431704e-07)

BAND02_SCA02_SAMP_DEN_COEF = (-9.124254e-07, -6.354959e-06, -1.546849e-06, -6.901446e-12)
BAND02_SCA03_MEAN_HEIGHT = 3500.000
BAND02_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA03_MEAN_L1T_LINE_SAMP = (3560.690, 1854.938)
BAND02_SCA03_LINE_NUM_COEF = (-3.556948e-02, 1.017041e+00, -2.070398e-01, 1.279790e-04, -8.011104e-06)
BAND02_SCA03_LINE_DEN_COEF = (2.012199e-08, -7.368453e-06, -8.483009e-10, 2.197394e-12)
BAND02_SCA03_SAMP_NUM_COEF = (2.961821e-01, 2.291499e-01, 1.006552e+00, -3.199608e-03, 4.512651e-07)
BAND02_SCA03_SAMP_DEN_COEF = (-7.083986e-07, -5.479243e-06, -1.553260e-06, -6.581733e-12)
BAND02_SCA04_MEAN_HEIGHT = 3500.000
BAND02_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA04_MEAN_L1T_LINE_SAMP = (3439.300, 2346.426)
BAND02_SCA04_LINE_NUM_COEF = (-4.961300e-02, 1.015514e+00, -2.142671e-01, -2.079492e-04, -7.469172e-06)
BAND02_SCA04_LINE_DEN_COEF = (1.498670e-08, -6.868941e-06, -3.214908e-10, 2.209151e-12)
BAND02_SCA04_SAMP_NUM_COEF = (3.281028e-01, 2.304896e-01, 1.012520e+00, -2.481083e-03, 4.517853e-07)
BAND02_SCA04_SAMP_DEN_COEF = (-4.299998e-07, -4.236367e-06, -1.559566e-06, -6.139440e-12)
BAND02_SCA05_MEAN_HEIGHT = 3500.000
BAND02_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA05_MEAN_L1T_LINE_SAMP = (3756.036, 2737.631)
BAND02_SCA05_LINE_NUM_COEF = (-3.528736e-02, 1.014844e+00, -2.174576e-01, 1.709299e-04, -1.221617e-05)
BAND02_SCA05_LINE_DEN_COEF = (6.105664e-08, -1.111791e-05, -1.061645e-09, 2.270295e-12)
BAND02_SCA05_SAMP_NUM_COEF = (3.543577e-01, 2.307997e-01, 1.014341e+00, -1.747796e-03, 4.590732e-07)
BAND02_SCA05_SAMP_DEN_COEF = (-2.475067e-07, -3.453947e-06, -1.563408e-06, -5.863744e-12)
BAND02_SCA06_MEAN_HEIGHT = 3500.000
BAND02_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA06_MEAN_L1T_LINE_SAMP = (3636.347, 3225.976)
BAND02_SCA06_LINE_NUM_COEF = (-6.009359e-02, 1.013601e+00, -2.234328e-01, -1.804245e-04, -9.273407e-06)
BAND02_SCA06_LINE_DEN_COEF = (3.199049e-08, -8.468315e-06, -2.977357e-10, 2.256600e-12)
BAND02_SCA06_SAMP_NUM_COEF = (3.931729e-01, 2.315890e-01, 1.017884e+00, -1.017444e-03, 4.585444e-07)
BAND02_SCA06_SAMP_DEN_COEF = (1.100294e-07, -1.862837e-06, -1.567226e-06, -5.242260e-12)
BAND02_SCA07_MEAN_HEIGHT = 3500.000
BAND02_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA07_MEAN_L1T_LINE_SAMP = (3953.486, 3614.992)
BAND02_SCA07_LINE_NUM_COEF = (-6.379456e-02, 1.012656e+00, -2.278407e-01, 1.890249e-04, -1.018470e-05)
BAND02_SCA07_LINE_DEN_COEF = (4.101744e-08, -9.275420e-06, -1.027617e-09, 2.283581e-12)
BAND02_SCA07_SAMP_NUM_COEF = (4.313519e-01, 2.313612e-01, 1.017335e+00, -2.807719e-04, 4.647948e-07)
BAND02_SCA07_SAMP_DEN_COEF = (4.140744e-07, -5.445798e-07, -1.568788e-06, -4.722714e-12)
BAND02_SCA08_MEAN_HEIGHT = 3500.000
BAND02_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA08_MEAN_L1T_LINE_SAMP = (3835.104, 4102.466)
BAND02_SCA08_LINE_NUM_COEF = (-9.198592e-02, 1.011649e+00, -2.327814e-01, -1.755994e-04, -6.622924e-06)
BAND02_SCA08_LINE_DEN_COEF = (3.222454e-09, -6.083859e-06, -3.996357e-10, 2.238393e-12)
BAND02_SCA08_SAMP_NUM_COEF = (4.781390e-01, 2.316686e-01, 1.018751e+00, 4.548741e-04, 4.633367e-07)
BAND02_SCA08_SAMP_DEN_COEF = (8.563134e-07, 1.419673e-06, -1.568473e-06, -3.913502e-12)
BAND02_SCA09_MEAN_HEIGHT = 3500.000
BAND02_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA09_MEAN_L1T_LINE_SAMP = (4154.026, 4490.896)
BAND02_SCA09_LINE_NUM_COEF = (-8.486023e-02, 1.010430e+00, -2.384075e-01, 1.824395e-04, -9.689829e-06)
BAND02_SCA09_LINE_DEN_COEF = (3.584068e-08, -8.811321e-06, -9.942248e-10, 2.300466e-12)
BAND02_SCA09_SAMP_NUM_COEF = (4.982381e-01, 2.309270e-01, 1.015937e+00, 1.188437e-03, 4.685767e-07)
BAND02_SCA09_SAMP_DEN_COEF = (1.000613e-06, 2.037044e-06, -1.567021e-06, -3.710717e-12)
BAND02_SCA10_MEAN_HEIGHT = 3500.000
BAND02_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND02_SCA10_MEAN_L1T_LINE_SAMP = (4037.024, 4979.329)
BAND02_SCA10_LINE_NUM_COEF = (-9.528557e-02, 1.009668e+00, -2.422675e-01, -1.931956e-04, -9.595170e-06)
BAND02_SCA10_LINE_DEN_COEF = (3.432679e-08, -8.717484e-06, -2.604129e-10, 2.306219e-12)
BAND02_SCA10_SAMP_NUM_COEF = (5.227732e-01, 2.307221e-01, 1.015091e+00, 1.923195e-03, 4.661213e-07)
BAND02_SCA10_SAMP_DEN_COEF = (1.244608e-06, 3.129882e-06, -1.564080e-06, -3.280156e-12)
BAND02_SCA11_MEAN_HEIGHT = 3500.000
BAND02_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA11_MEAN_L1T_LINE_SAMP = (4358.241, 5369.162)
BAND02_SCA11_LINE_NUM_COEF = (-1.080926e-01, 1.008202e+00, -2.489932e-01, 1.503156e-04, -8.776643e-06)
BAND02_SCA11_LINE_DEN_COEF = (2.543373e-08, -7.977361e-06, -9.019897e-10, 2.296287e-12)
BAND02_SCA11_SAMP_NUM_COEF = (5.594096e-01, 2.294929e-01, 1.010123e+00, 2.647798e-03, 4.703649e-07)
BAND02_SCA11_SAMP_DEN_COEF = (1.545632e-06, 4.437897e-06, -1.559119e-06, -2.759245e-12)
BAND02_SCA12_MEAN_HEIGHT = 3500.000
BAND02_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA12_MEAN_L1T_LINE_SAMP = (4242.816, 5860.940)
BAND02_SCA12_LINE_NUM_COEF = (-1.312434e-01, 1.007779e+00, -2.513693e-01, -2.325307e-04, -6.298455e-06)
BAND02_SCA12_LINE_DEN_COEF = (-4.018345e-09, -5.768899e-06, -3.369892e-10, 2.238104e-12)
BAND02_SCA12_SAMP_NUM_COEF = (5.699356e-01, 2.287950e-01, 1.007099e+00, 3.376404e-03, 4.669456e-07)
BAND02_SCA12_SAMP_DEN_COEF = (1.665369e-06, 4.984081e-06, -1.555106e-06, -2.555600e-12)
BAND02_SCA13_MEAN_HEIGHT = 3500.000
BAND02_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA13_MEAN_L1T_LINE_SAMP = (4567.369, 6253.964)
BAND02_SCA13_LINE_NUM_COEF = (-1.129676e-01, 1.006014e+00, -2.594254e-01, 9.328783e-05, -1.107786e-05)
BAND02_SCA13_LINE_DEN_COEF = (5.199252e-08, -9.999140e-06, -8.424254e-10, 2.361803e-12)
BAND02_SCA13_SAMP_NUM_COEF = (6.370180e-01, 2.270767e-01, 9.999693e-01, 4.086079e-03, 4.701617e-07)
BAND02_SCA13_SAMP_DEN_COEF = (2.243592e-06, 7.513939e-06, -1.542317e-06, -1.465522e-12)
BAND02_SCA14_MEAN_HEIGHT = 3500.000
BAND02_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA14_MEAN_L1T_LINE_SAMP = (4453.811, 6750.578)
BAND02_SCA14_LINE_NUM_COEF = (-1.330849e-01, 1.005868e+00, -2.605843e-01, -2.940441e-04, -9.146426e-06)
BAND02_SCA14_LINE_DEN_COEF = (2.772834e-08, -8.281787e-06, -9.051701e-11, 2.309641e-12)
BAND02_SCA14_SAMP_NUM_COEF = (6.339984e-01, 2.258894e-01, 9.947809e-01, 4.801777e-03, 4.657803e-07)
BAND02_SCA14_SAMP_DEN_COEF = (2.241989e-06, 7.525800e-06, -1.538223e-06, -1.493411e-12)
END_GROUP = RPC_BAND02
GROUP = RPC_BAND03
BAND03_NUMBER_OF_SCAS = 14
BAND03_NUM_L1T_LINES = 7791
BAND03_NUM_L1T_SAMPS = 7701
BAND03_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND03_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND03_NUM_L1R_LINES = 7501
BAND03_NUM_L1R_SAMPS = 494
BAND03_PIXEL_SIZE = 30.000
BAND03_START_TIME = 10.618265
BAND03_LINE_TIME = 0.004236000
BAND03_MEAN_HEIGHT = 3500.000
BAND03_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND03_MEAN_L1T_LINE_SAMP = (3900.701, 3857.756)
BAND03_MEAN_SAT_VECTOR = (-0.002370342, 0.000779969, 0.996268855)
BAND03_SAT_X_NUM_COEF = (1.169982e-05, -2.856795e-07, -4.710594e-05, -3.155230e-09, -9.792977e-06,
1.355003e-11, 4.072937e-11, 9.550484e-12, 5.014982e-16, 4.424156e-17)
BAND03_SAT_X_DEN_COEF = (-2.948093e-06, 0.000000e+00, -1.402884e-06, 2.141144e-06, 3.697406e-11,

4.303711e-10, 9.536772e-10, -2.046781e-16, -3.922698e-18)
BAND03_SAT_Y_NUM_COEF = (3.115481e-04, 4.712481e-05, -2.905496e-07, 1.071866e-09, -4.431228e-05,
-9.295683e-13, -2.569661e-11, -9.532017e-11, -8.548627e-17, -1.945516e-17)
BAND03_SAT_Y_DEN_COEF = (1.087413e-07, -3.814996e-07, -1.404676e-06, 0.000000e+00, 3.224937e-11,
5.326041e-10, 9.440715e-10, -1.491437e-16, -1.227569e-17)
BAND03_SAT_Z_NUM_COEF = (3.670569e-03, -5.205053e-08, -1.100066e-07, -1.035292e-08, 2.612694e-08,
-5.434196e-11, -4.776971e-10, -1.049962e-09, 1.748282e-16, 8.848226e-20)
BAND03_SAT_Z_DEN_COEF = (-3.821737e-06, 1.098035e-06, -2.822341e-06, 4.018876e-06, 7.530124e-11,
6.388158e-10, 1.400008e-09, 6.761455e-17, 7.386309e-17)
BAND03_MEAN_SUN_VECTOR = (0.463270570, -0.054044341, 0.884482678)
BAND03_SUN_X_NUM_COEF = (1.786340e-05, -2.463078e-08, -4.051161e-06, -2.692257e-15, -2.440086e-07,
-2.160724e-13, -8.982844e-12, -5.870706e-12, 1.910127e-18, 2.990266e-18)
BAND03_SUN_X_DEN_COEF = (1.949590e-07, 0.000000e+00, -3.383427e-12, -1.825942e-07, -1.546659e-11,
-5.341566e-12, 9.454192e-12, -4.029781e-17, -6.062920e-18)
BAND03_SUN_Y_NUM_COEF = (2.605568e-05, 4.188766e-06, 9.044933e-07, -5.456848e-14, 5.591995e-08,
-5.010196e-11, 3.379992e-13, -8.274968e-12, -1.878907e-17, 1.281231e-18)
BAND03_SUN_Y_DEN_COEF = (-1.212927e-05, 0.000000e+00, -2.783735e-11, 3.702455e-08, 6.554832e-12,
2.163999e-11, 0.000000e+00, 2.754898e-16, -3.471687e-16)
BAND03_SUN_Z_NUM_COEF = (7.701116e-05, 2.686601e-07, 2.177057e-06, -5.254264e-15, 1.313348e-07,
-9.804644e-12, 5.816779e-13, -9.856040e-12, -1.425641e-18, -9.235082e-18)
BAND03_SUN_Z_DEN_COEF = (2.751045e-07, 0.000000e+00, -3.528736e-12, 5.354989e-07, 9.837439e-13,
3.947965e-12, 6.662134e-12, 8.081163e-17, 1.584400e-17)
BAND03_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
BAND03_SCA01_MEAN_HEIGHT = 3500.000
BAND03_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA01_MEAN_L1T_LINE_SAMP = (3480.365, 936.958)
BAND03_SCA01_LINE_NUM_COEF = (-3.299538e-03, 1.019303e+00, -1.962675e-01, 2.481412e-04, -1.058614e-05)
BAND03_SCA01_LINE_DEN_COEF = (4.403586e-08, -9.706045e-06, -1.175026e-09, 2.158220e-12)
BAND03_SCA01_SAMP_NUM_COEF = (2.384005e-01, 2.263750e-01, 9.939062e-01, -4.622196e-03, 4.435841e-07)
BAND03_SCA01_SAMP_DEN_COEF = (-1.149056e-06, -7.424562e-06, -1.538382e-06, -7.257940e-12)
BAND03_SCA02_MEAN_HEIGHT = 3500.000
BAND03_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA02_MEAN_L1T_LINE_SAMP = (3130.860, 1485.349)
BAND03_SCA02_LINE_NUM_COEF = (-3.493249e-02, 1.017348e+00, -2.055285e-01, -4.443558e-04, -6.559903e-06)
BAND03_SCA02_LINE_DEN_COEF = (7.975345e-09, -6.065376e-06, -4.205532e-11, 2.177553e-12)
BAND03_SCA02_SAMP_NUM_COEF = (2.643000e-01, 2.285899e-01, 1.003534e+00, -3.927341e-03, 4.412935e-07)
BAND03_SCA02_SAMP_DEN_COEF = (-9.176767e-07, -6.367640e-06, -1.546825e-06, -6.903803e-12)
BAND03_SCA03_MEAN_HEIGHT = 3500.000
BAND03_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA03_MEAN_L1T_LINE_SAMP = (3674.159, 1829.052)
BAND03_SCA03_LINE_NUM_COEF = (-3.375340e-02, 1.017138e+00, -2.065403e-01, 3.160320e-04, -8.251735e-06)
BAND03_SCA03_LINE_DEN_COEF = (2.224045e-08, -7.586148e-06, -1.171086e-09, 2.196500e-12)
BAND03_SCA03_SAMP_NUM_COEF = (2.957614e-01, 2.289438e-01, 1.005744e+00, -3.197104e-03, 4.531215e-07)
BAND03_SCA03_SAMP_DEN_COEF = (-7.249124e-07, -5.562144e-06, -1.552981e-06, -6.621647e-12)
BAND03_SCA04_MEAN_HEIGHT = 3500.000
BAND03_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA04_MEAN_L1T_LINE_SAMP = (3326.779, 2372.103)
BAND03_SCA04_LINE_NUM_COEF = (-4.986377e-02, 1.015450e+00, -2.146182e-01, -3.951515e-04, -7.556090e-06)
BAND03_SCA04_LINE_DEN_COEF = (1.594671e-08, -6.945601e-06, -2.925472e-11, 2.211781e-12)
BAND03_SCA04_SAMP_NUM_COEF = (3.253623e-01, 2.306788e-01, 1.013255e+00, -2.482837e-03, 4.498982e-07)
BAND03_SCA04_SAMP_DEN_COEF = (-4.418280e-07, -4.278205e-06, -1.559492e-06, -6.156048e-12)
BAND03_SCA05_MEAN_HEIGHT = 3500.000

BAND03_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA05_MEAN_L1T_LINE_SAMP = (3869.213, 2711.822)
BAND03_SCA05_LINE_NUM_COEF = (-3.358897e-02, 1.014889e+00, -2.171869e-01, 3.595873e-04, -1.243773e-05)
BAND03_SCA05_LINE_DEN_COEF = (6.310147e-08, -1.131791e-05, -1.544903e-09, 2.270832e-12)
BAND03_SCA05_SAMP_NUM_COEF = (3.580288e-01, 2.305870e-01, 1.013505e+00, -1.746434e-03, 4.609232e-07)
BAND03_SCA05_SAMP_DEN_COEF = (-2.268223e-07, -3.373143e-06, -1.563530e-06, -5.828672e-12)
BAND03_SCA06_MEAN_HEIGHT = 3500.000
BAND03_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA06_MEAN_L1T_LINE_SAMP = (3524.017, 3251.576)
BAND03_SCA06_LINE_NUM_COEF = (-6.503293e-02, 1.013584e+00, -2.235744e-01, -3.679944e-04, -8.375375e-06)
BAND03_SCA06_LINE_DEN_COEF = (2.288846e-08, -7.663965e-06, -1.070669e-11, 2.246256e-12)
BAND03_SCA06_SAMP_NUM_COEF = (3.939456e-01, 2.317857e-01, 1.018650e+00, -1.018188e-03, 4.566683e-07)
BAND03_SCA06_SAMP_DEN_COEF = (1.309974e-07, -1.760833e-06, -1.567358e-06, -5.196226e-12)
BAND03_SCA07_MEAN_HEIGHT = 3500.000
BAND03_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA07_MEAN_L1T_LINE_SAMP = (4066.557, 3589.225)
BAND03_SCA07_LINE_NUM_COEF = (-6.415463e-02, 1.012655e+00, -2.277769e-01, 3.779664e-04, -9.991008e-06)
BAND03_SCA07_LINE_DEN_COEF = (3.895314e-08, -9.103205e-06, -1.403138e-09, 2.281032e-12)
BAND03_SCA07_SAMP_NUM_COEF = (4.314773e-01, 2.311467e-01, 1.016492e+00, -2.806079e-04, 4.666405e-07)
BAND03_SCA07_SAMP_DEN_COEF = (4.015171e-07, -6.095956e-07, -1.568752e-06, -4.751120e-12)
BAND03_SCA08_MEAN_HEIGHT = 3500.000
BAND03_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA08_MEAN_L1T_LINE_SAMP = (3722.815, 4128.046)
BAND03_SCA08_LINE_NUM_COEF = (-9.526563e-02, 1.011688e+00, -2.326762e-01, -3.632250e-04, -6.068993e-06)
BAND03_SCA08_LINE_DEN_COEF = (-2.659219e-09, -5.588864e-06, -1.868915e-10, 2.228377e-12)
BAND03_SCA08_SAMP_NUM_COEF = (4.710051e-01, 2.318501e-01, 1.019450e+00, 4.552385e-04, 4.614344e-07)
BAND03_SCA08_SAMP_DEN_COEF = (8.049169e-07, 1.203189e-06, -1.568601e-06, -4.014367e-12)
BAND03_SCA09_MEAN_HEIGHT = 3500.000
BAND03_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA09_MEAN_L1T_LINE_SAMP = (4267.161, 4465.111)
BAND03_SCA09_LINE_NUM_COEF = (-8.087221e-02, 1.010380e+00, -2.385636e-01, 3.713606e-04, -1.035844e-05)
BAND03_SCA09_LINE_DEN_COEF = (4.313386e-08, -9.407815e-06, -1.414869e-09, 2.314195e-12)
BAND03_SCA09_SAMP_NUM_COEF = (4.990441e-01, 2.307172e-01, 1.015115e+00, 1.187377e-03, 4.704249e-07)
BAND03_SCA09_SAMP_DEN_COEF = (9.938117e-07, 1.997603e-06, -1.567049e-06, -3.725552e-12)
BAND03_SCA10_MEAN_HEIGHT = 3500.000
BAND03_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA10_MEAN_L1T_LINE_SAMP = (3924.563, 5004.967)
BAND03_SCA10_LINE_NUM_COEF = (-9.873269e-02, 1.009752e+00, -2.419597e-01, -3.806461e-04, -9.029667e-06)
BAND03_SCA10_LINE_DEN_COEF = (2.801414e-08, -8.213672e-06, 6.055683e-11, 2.292853e-12)
BAND03_SCA10_SAMP_NUM_COEF = (5.193810e-01, 2.309133e-01, 1.015832e+00, 1.924713e-03, 4.642482e-07)
BAND03_SCA10_SAMP_DEN_COEF = (1.227975e-06, 3.066038e-06, -1.564231e-06, -3.312694e-12)
BAND03_SCA11_MEAN_HEIGHT = 3500.000
BAND03_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA11_MEAN_L1T_LINE_SAMP = (4471.610, 5343.325)
BAND03_SCA11_LINE_NUM_COEF = (-1.064472e-01, 1.008102e+00, -2.493736e-01, 3.389068e-04, -8.994483e-06)
BAND03_SCA11_LINE_DEN_COEF = (2.799115e-08, -8.171110e-06, -1.251830e-09, 2.304155e-12)
BAND03_SCA11_SAMP_NUM_COEF = (5.594518e-01, 2.292838e-01, 1.009305e+00, 2.645530e-03, 4.722008e-07)
BAND03_SCA11_SAMP_DEN_COEF = (1.531518e-06, 4.366499e-06, -1.559289e-06, -2.787423e-12)
BAND03_SCA12_MEAN_HEIGHT = 3500.000
BAND03_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA12_MEAN_L1T_LINE_SAMP = (4130.028, 5886.641)
BAND03_SCA12_LINE_NUM_COEF = (-1.329886e-01, 1.007908e+00, -2.508604e-01, -4.195143e-04, -6.048689e-06)

BAND03_SCA12_LINE_DEN_COEF = (-6.943671e-09, -5.546906e-06, -1.188659e-10, 2.228597e-12)
BAND03_SCA12_SAMP_NUM_COEF = (5.690948e-01, 2.289867e-01, 1.007842e+00, 3.379024e-03, 4.650900e-07)
BAND03_SCA12_SAMP_DEN_COEF = (1.672378e-06, 5.024077e-06, -1.555001e-06, -2.541490e-12)
BAND03_SCA13_MEAN_HEIGHT = 3500.000
BAND03_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA13_MEAN_L1T_LINE_SAMP = (4681.160, 6228.023)
BAND03_SCA13_LINE_NUM_COEF = (-1.104591e-01, 1.005866e+00, -2.600200e-01, 2.812807e-04, -1.143158e-05)
BAND03_SCA13_LINE_DEN_COEF = (5.637750e-08, -1.031231e-05, -1.282387e-09, 2.375169e-12)
BAND03_SCA13_SAMP_NUM_COEF = (6.342199e-01, 2.268667e-01, 9.991467e-01, 4.082562e-03, 4.719754e-07)
BAND03_SCA13_SAMP_DEN_COEF = (2.203458e-06, 7.328231e-06, -1.543061e-06, -1.544513e-12)
BAND03_SCA14_MEAN_HEIGHT = 3500.000
BAND03_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA14_MEAN_L1T_LINE_SAMP = (4340.525, 6776.382)
BAND03_SCA14_LINE_NUM_COEF = (-1.344639e-01, 1.006053e+00, -2.598229e-01, -4.800354e-04, -8.972823e-06)
BAND03_SCA14_LINE_DEN_COEF = (2.546511e-08, -8.128526e-06, 2.362318e-10, 2.300447e-12)
BAND03_SCA14_SAMP_NUM_COEF = (6.319032e-01, 2.260722e-01, 9.954850e-01, 4.805326e-03, 4.639297e-07)
BAND03_SCA14_SAMP_DEN_COEF = (2.237938e-06, 7.516858e-06, -1.538293e-06, -1.503417e-12)
END_GROUP = RPC_BAND03
GROUP = RPC_BAND04
BAND04_NUMBER_OF_SCAS = 14
BAND04_NUM_L1T_LINES = 7791
BAND04_NUM_L1T_SAMPS = 7701
BAND04_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND04_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND04_NUM_L1R_LINES = 7501
BAND04_NUM_L1R_SAMPS = 494
BAND04_PIXEL_SIZE = 30.000
BAND04_START_TIME = 10.618265
BAND04_LINE_TIME = 0.004236000
BAND04_MEAN_HEIGHT = 3500.000
BAND04_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND04_MEAN_L1T_LINE_SAMP = (3900.631, 3857.773)
BAND04_MEAN_SAT_VECTOR = (-0.002371955, 0.000776933, 0.996282465)
BAND04_SAT_X_NUM_COEF = (1.267394e-05, -2.856546e-07, -4.710652e-05, -3.156642e-09, -9.793127e-06,
1.350607e-11, 4.053414e-11, 9.543247e-12, 5.033654e-16, 4.425747e-17)
BAND04_SAT_X_DEN_COEF = (-2.942684e-06, 0.000000e+00, -1.402886e-06, 2.140105e-06, 3.693270e-11,
4.303856e-10, 9.536764e-10, -2.048758e-16, -3.921914e-18)
BAND04_SAT_Y_NUM_COEF = (3.112108e-04, 4.712537e-05, -2.905304e-07, 1.067409e-09, -4.431252e-05,
-9.277101e-13, -2.569528e-11, -9.531395e-11, -1.025868e-16, -1.947709e-17)
BAND04_SAT_Y_DEN_COEF = (1.087407e-07, -3.814852e-07, -1.404396e-06, 0.000000e+00, 3.210911e-11,
5.398601e-10, 9.432209e-10, -1.325004e-16, -1.440459e-17)
BAND04_SAT_Z_NUM_COEF = (3.670588e-03, -5.189173e-08, -1.100394e-07, -1.035737e-08, 2.597399e-08,
-5.433619e-11, -4.776986e-10, -1.049967e-09, 1.749992e-16, 9.199679e-20)
BAND04_SAT_Z_DEN_COEF = (-3.821870e-06, 1.097918e-06, -2.822342e-06, 4.020711e-06, 7.484458e-11,
6.371564e-10, 1.398388e-09, 2.638398e-17, 7.387038e-17)
BAND04_MEAN_SUN_VECTOR = (0.463270453, -0.054044495, 0.884482818)
BAND04_SUN_X_NUM_COEF = (1.791200e-05, -2.463090e-08, -4.051160e-06, -1.729591e-15, -2.440087e-07,
-2.161765e-13, -8.984337e-12, -5.870688e-12, 1.911008e-18, 2.992434e-18)
BAND04_SUN_X_DEN_COEF = (1.953265e-07, 0.000000e+00, -3.432304e-12, -1.825870e-07, -1.546316e-11,
-5.341551e-12, 9.449922e-12, -4.037269e-17, -6.059597e-18)
BAND04_SUN_Y_NUM_COEF = (2.592134e-05, 4.188776e-06, 9.044902e-07, -5.109031e-14, 5.590846e-08,
-5.047427e-11, 2.556221e-13, -8.272816e-12, -2.034605e-17, 1.403928e-18)

BAND04_SUN_Y_DEN_COEF = (-1.221761e-05, 0.000000e+00, -2.979585e-11, 3.680164e-08, 6.516379e-12, 2.146796e-11, 0.000000e+00, 2.083822e-16, -2.689996e-16)

BAND04_SUN_Z_NUM_COEF = (7.689038e-05, 2.686614e-07, 2.177057e-06, -3.989361e-15, 1.313354e-07, -9.803406e-12, 5.898116e-13, -9.856220e-12, -1.457426e-18, -9.268115e-18)

BAND04_SUN_Z_DEN_COEF = (2.789324e-07, 0.000000e+00, -3.860927e-12, 5.354192e-07, 9.985517e-13, 3.961405e-12, 6.640086e-12, 6.293812e-17, 1.606818e-17)

BAND04_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)

BAND04_SCA01_MEAN_HEIGHT = 3500.000

BAND04_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA01_MEAN_L1T_LINE_SAMP = (3451.905, 943.445)

BAND04_SCA01_LINE_NUM_COEF = (-3.969909e-03, 1.019268e+00, -1.964422e-01, 2.013741e-04, -1.047815e-05)

BAND04_SCA01_LINE_DEN_COEF = (4.313746e-08, -9.608240e-06, -1.069809e-09, 2.159149e-12)

BAND04_SCA01_SAMP_NUM_COEF = (2.382994e-01, 2.264282e-01, 9.941160e-01, -4.623167e-03, 4.431273e-07)

BAND04_SCA01_SAMP_DEN_COEF = (-1.147025e-06, -7.412997e-06, -1.538438e-06, -7.251837e-12)

BAND04_SCA02_MEAN_HEIGHT = 3500.000

BAND04_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA02_MEAN_L1T_LINE_SAMP = (3159.109, 1478.906)

BAND04_SCA02_LINE_NUM_COEF = (-3.524462e-02, 1.017371e+00, -2.054115e-01, -3.975876e-04, -6.454013e-06)

BAND04_SCA02_LINE_DEN_COEF = (6.950722e-09, -5.970580e-06, -1.133758e-10, 2.176255e-12)

BAND04_SCA02_SAMP_NUM_COEF = (2.650126e-01, 2.285418e-01, 1.003347e+00, -3.926604e-03, 4.417620e-07)

BAND04_SCA02_SAMP_DEN_COEF = (-9.143557e-07, -6.355654e-06, -1.546865e-06, -6.899736e-12)

BAND04_SCA03_MEAN_HEIGHT = 3500.000

BAND04_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA03_MEAN_L1T_LINE_SAMP = (3645.822, 1835.510)

BAND04_SCA03_LINE_NUM_COEF = (-3.654582e-02, 1.017112e+00, -2.066749e-01, 2.691090e-04, -7.683317e-06)

BAND04_SCA03_LINE_DEN_COEF = (1.690876e-08, -7.075200e-06, -1.061322e-09, 2.193919e-12)

BAND04_SCA03_SAMP_NUM_COEF = (2.944672e-01, 2.289944e-01, 1.005942e+00, -3.197725e-03, 4.526566e-07)

BAND04_SCA03_SAMP_DEN_COEF = (-7.335703e-07, -5.597588e-06, -1.552872e-06, -6.637040e-12)

BAND04_SCA04_MEAN_HEIGHT = 3500.000

BAND04_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA04_MEAN_L1T_LINE_SAMP = (3354.915, 2365.678)

BAND04_SCA04_LINE_NUM_COEF = (-4.991498e-02, 1.015462e+00, -2.145482e-01, -3.482946e-04, -7.511177e-06)

BAND04_SCA04_LINE_DEN_COEF = (1.548350e-08, -6.905627e-06, -1.046325e-10, 2.210867e-12)

BAND04_SCA04_SAMP_NUM_COEF = (3.267866e-01, 2.306325e-01, 1.013076e+00, -2.482418e-03, 4.503724e-07)

BAND04_SCA04_SAMP_DEN_COEF = (-4.320890e-07, -4.237956e-06, -1.559583e-06, -6.138952e-12)

BAND04_SCA05_MEAN_HEIGHT = 3500.000

BAND04_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA05_MEAN_L1T_LINE_SAMP = (3840.950, 2718.264)

BAND04_SCA05_LINE_NUM_COEF = (-3.551242e-02, 1.014875e+00, -2.172679e-01, 3.125047e-04, -1.206653e-05)

BAND04_SCA05_LINE_DEN_COEF = (5.946236e-08, -1.098492e-05, -1.402877e-09, 2.267552e-12)

BAND04_SCA05_SAMP_NUM_COEF = (3.589954e-01, 2.306383e-01, 1.013706e+00, -1.746766e-03, 4.604578e-07)

BAND04_SCA05_SAMP_DEN_COEF = (-2.146046e-07, -3.316920e-06, -1.563631e-06, -5.802902e-12)

BAND04_SCA06_MEAN_HEIGHT = 3500.000

BAND04_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA06_MEAN_L1T_LINE_SAMP = (3552.120, 3245.169)

BAND04_SCA06_LINE_NUM_COEF = (-6.427890e-02, 1.013587e+00, -2.235463e-01, -3.210570e-04, -8.500840e-06)

BAND04_SCA06_LINE_DEN_COEF = (2.415613e-08, -7.776432e-06, -8.257883e-11, 2.247603e-12)

BAND04_SCA06_SAMP_NUM_COEF = (3.964034e-01, 2.317374e-01, 1.018463e+00, -1.018013e-03, 4.571398e-07)

BAND04_SCA06_SAMP_DEN_COEF = (1.502596e-07, -1.678640e-06, -1.567432e-06, -5.159439e-12)

BAND04_SCA07_MEAN_HEIGHT = 3500.000

BAND04_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA07_MEAN_L1T_LINE_SAMP = (4038.314, 3595.662)

BAND04_SCA07_LINE_NUM_COEF = (-6.188891e-02, 1.012656e+00, -2.277922e-01, 3.307650e-04, -1.048028e-05)
BAND04_SCA07_LINE_DEN_COEF = (4.405105e-08, -9.540262e-06, -1.339996e-09, 2.287788e-12)
BAND04_SCA07_SAMP_NUM_COEF = (4.333693e-01, 2.311961e-01, 1.016684e+00, -2.806441e-04, 4.661715e-07)
BAND04_SCA07_SAMP_DEN_COEF = (4.224807e-07, -5.149600e-07, -1.568782e-06, -4.708095e-12)
BAND04_SCA08_MEAN_HEIGHT = 3500.000
BAND04_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA08_MEAN_L1T_LINE_SAMP = (3750.909, 4121.648)
BAND04_SCA08_LINE_NUM_COEF = (-9.555209e-02, 1.011676e+00, -2.327096e-01, -3.162824e-04, -5.986920e-06)
BAND04_SCA08_LINE_DEN_COEF = (-3.529529e-09, -5.515730e-06, -2.501992e-10, 2.227206e-12)
BAND04_SCA08_SAMP_NUM_COEF = (4.689097e-01, 2.318038e-01, 1.019272e+00, 4.551553e-04, 4.619089e-07)
BAND04_SCA08_SAMP_DEN_COEF = (7.818761e-07, 1.099492e-06, -1.568639e-06, -4.060820e-12)
BAND04_SCA09_MEAN_HEIGHT = 3500.000
BAND04_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA09_MEAN_L1T_LINE_SAMP = (4238.912, 4471.553)
BAND04_SCA09_LINE_NUM_COEF = (-8.299787e-02, 1.010393e+00, -2.385190e-01, 3.241970e-04, -9.972978e-06)
BAND04_SCA09_LINE_DEN_COEF = (3.893491e-08, -9.064087e-06, -1.290888e-09, 2.306828e-12)
BAND04_SCA09_SAMP_NUM_COEF = (4.993310e-01, 2.307717e-01, 1.015329e+00, 1.187659e-03, 4.699680e-07)
BAND04_SCA09_SAMP_DEN_COEF = (9.999704e-07, 2.027077e-06, -1.567018e-06, -3.712621e-12)
BAND04_SCA10_MEAN_HEIGHT = 3500.000
BAND04_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA10_MEAN_L1T_LINE_SAMP = (3952.706, 4998.557)
BAND04_SCA10_LINE_NUM_COEF = (-9.785353e-02, 1.009732e+00, -2.420332e-01, -3.337331e-04, -9.174588e-06)
BAND04_SCA10_LINE_DEN_COEF = (2.962897e-08, -8.342794e-06, -1.555738e-11, 2.296285e-12)
BAND04_SCA10_SAMP_NUM_COEF = (5.185147e-01, 2.308673e-01, 1.015655e+00, 1.924361e-03, 4.647210e-07)
BAND04_SCA10_SAMP_DEN_COEF = (1.216296e-06, 3.012324e-06, -1.564325e-06, -3.336374e-12)
BAND04_SCA11_MEAN_HEIGHT = 3500.000
BAND04_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA11_MEAN_L1T_LINE_SAMP = (4443.307, 5349.780)
BAND04_SCA11_LINE_NUM_COEF = (-1.065768e-01, 1.008121e+00, -2.493040e-01, 2.917554e-04, -8.992812e-06)
BAND04_SCA11_LINE_DEN_COEF = (2.795833e-08, -8.169569e-06, -1.165909e-09, 2.303266e-12)
BAND04_SCA11_SAMP_NUM_COEF = (5.604758e-01, 2.293340e-01, 1.009500e+00, 2.646078e-03, 4.717387e-07)
BAND04_SCA11_SAMP_DEN_COEF = (1.544537e-06, 4.426126e-06, -1.559137e-06, -2.761288e-12)
BAND04_SCA12_MEAN_HEIGHT = 3500.000
BAND04_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA12_MEAN_L1T_LINE_SAMP = (4158.247, 5880.216)
BAND04_SCA12_LINE_NUM_COEF = (-1.318266e-01, 1.007874e+00, -2.509923e-01, -3.727506e-04, -6.243329e-06)
BAND04_SCA12_LINE_DEN_COEF = (-4.702234e-09, -5.719896e-06, -1.617996e-10, 2.234187e-12)
BAND04_SCA12_SAMP_NUM_COEF = (5.703952e-01, 2.289388e-01, 1.007657e+00, 3.378377e-03, 4.655547e-07)
BAND04_SCA12_SAMP_DEN_COEF = (1.680585e-06, 5.057910e-06, -1.554879e-06, -2.524876e-12)
BAND04_SCA13_MEAN_HEIGHT = 3500.000
BAND04_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA13_MEAN_L1T_LINE_SAMP = (4652.737, 6234.507)
BAND04_SCA13_LINE_NUM_COEF = (-1.110994e-01, 1.005903e+00, -2.598699e-01, 2.343271e-04, -1.134100e-05)
BAND04_SCA13_LINE_DEN_COEF = (5.525368e-08, -1.023212e-05, -1.169904e-09, 2.371762e-12)
BAND04_SCA13_SAMP_NUM_COEF = (6.349480e-01, 2.269189e-01, 9.993507e-01, 4.083441e-03, 4.715220e-07)
BAND04_SCA13_SAMP_DEN_COEF = (2.213741e-06, 7.375758e-06, -1.542870e-06, -1.524139e-12)
BAND04_SCA14_MEAN_HEIGHT = 3500.000
BAND04_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA14_MEAN_L1T_LINE_SAMP = (4368.876, 6769.929)
BAND04_SCA14_LINE_NUM_COEF = (-1.323690e-01, 1.006005e+00, -2.600217e-01, -4.335354e-04, -9.316231e-06)
BAND04_SCA14_LINE_DEN_COEF = (2.957857e-08, -8.432896e-06, 1.817585e-10, 2.311247e-12)
BAND04_SCA14_SAMP_NUM_COEF = (6.288844e-01, 2.260274e-01, 9.953132e-01, 4.804471e-03, 4.643952e-07)

BAND04_SCA14_SAMP_DEN_COEF = (2.206956e-06, 7.378200e-06, -1.538955e-06, -1.566677e-12)
 END_GROUP = RPC_BAND04
 GROUP = RPC_BAND05
 BAND05_NUMBER_OF_SCAS = 14
 BAND05_NUM_L1T_LINES = 7791
 BAND05_NUM_L1T_SAMPS = 7701
 BAND05_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
 BAND05_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
 BAND05_NUM_L1R_LINES = 7501
 BAND05_NUM_L1R_SAMPS = 494
 BAND05_PIXEL_SIZE = 30.000
 BAND05_START_TIME = 10.618265
 BAND05_LINE_TIME = 0.004236000
 BAND05_MEAN_HEIGHT = 3500.000
 BAND05_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
 BAND05_MEAN_L1T_LINE_SAMP = (3900.593, 3857.781)
 BAND05_MEAN_SAT_VECTOR = (-0.002373113, 0.000775434, 0.996294172)
 BAND05_SAT_X_NUM_COEF = (1.359501e-05, -2.856183e-07, -4.710703e-05, -3.157562e-09, -9.793272e-06,
 1.343304e-11, 4.020976e-11, 9.529726e-12, 5.061909e-16, 4.428372e-17)
 BAND05_SAT_X_DEN_COEF = (-2.933853e-06, 0.000000e+00, -1.402888e-06, 2.138508e-06, 3.686847e-11,
 4.304106e-10, 9.536742e-10, -2.050207e-16, -3.918865e-18)
 BAND05_SAT_Y_NUM_COEF = (3.109003e-04, 4.712588e-05, -2.905113e-07, 1.065110e-09, -4.431274e-05,
 -9.259241e-13, -2.569442e-11, -9.530877e-11, -1.172899e-16, -1.949449e-17)
 BAND05_SAT_Y_DEN_COEF = (1.087420e-07, -3.814018e-07, -1.404115e-06, 0.000000e+00, 3.213334e-11,
 5.463599e-10, 9.425420e-10, -1.147245e-16, -1.661254e-17)
 BAND05_SAT_Z_NUM_COEF = (3.670666e-03, -5.180910e-08, -1.100513e-07, -1.036140e-08, 2.589699e-08,
 -5.433094e-11, -4.776988e-10, -1.049969e-09, 1.751496e-16, 9.508608e-20)
 BAND05_SAT_Z_DEN_COEF = (-3.827676e-06, 1.098807e-06, -2.822343e-06, 4.028106e-06, 7.438562e-11,
 6.353821e-10, 1.396602e-09, -7.938506e-18, 7.389720e-17)
 BAND05_MEAN_SUN_VECTOR = (0.463270373, -0.054044523, 0.884482930)
 BAND05_SUN_X_NUM_COEF = (1.795888e-05, -2.463094e-08, -4.051160e-06, -8.962172e-16, -2.440088e-07,
 -2.163133e-13, -8.986323e-12, -5.870669e-12, 1.908259e-18, 2.995225e-18)
 BAND05_SUN_X_DEN_COEF = (1.958133e-07, 0.000000e+00, -3.474282e-12, -1.825766e-07, -1.545905e-11,
 -5.342430e-12, 9.445673e-12, -4.044174e-17, -6.059127e-18)
 BAND05_SUN_Y_NUM_COEF = (2.579166e-05, 4.188788e-06, 9.044870e-07, -4.570780e-14, 5.589333e-08,
 -5.106805e-11, 1.265436e-13, -8.270773e-12, -2.260311e-17, 1.573410e-18)
 BAND05_SUN_Y_DEN_COEF = (-1.235883e-05, 0.000000e+00, -3.200787e-11, 3.738020e-08, 6.464134e-12,
 2.127189e-11, 0.000000e+00, 1.493562e-16, -1.999448e-16)
 BAND05_SUN_Z_NUM_COEF = (7.678652e-05, 2.686621e-07, 2.177057e-06, -2.910512e-15, 1.313359e-07,
 -9.802298e-12, 5.970596e-13, -9.856373e-12, -1.487005e-18, -9.297672e-18)
 BAND05_SUN_Z_DEN_COEF = (2.823488e-07, 0.000000e+00, -4.186802e-12, 5.353411e-07, 1.013562e-12,
 3.971889e-12, 6.618228e-12, 4.736258e-17, 1.626222e-17)
 BAND05_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
 BAND05_SCA01_MEAN_HEIGHT = 3500.000
 BAND05_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
 BAND05_SCA01_MEAN_L1T_LINE_SAMP = (3423.457, 949.900)
 BAND05_SCA01_LINE_NUM_COEF = (-6.255557e-03, 1.019233e+00, -1.966122e-01, 1.546193e-04, -1.001032e-05)
 BAND05_SCA01_LINE_DEN_COEF = (3.899411e-08, -9.186490e-06, -9.554475e-10, 2.159641e-12)
 BAND05_SCA01_SAMP_NUM_COEF = (2.377212e-01, 2.264766e-01, 9.943047e-01, -4.624087e-03, 4.426611e-07)
 BAND05_SCA01_SAMP_DEN_COEF = (-1.149190e-06, -7.419857e-06, -1.538409e-06, -7.253836e-12)
 BAND05_SCA02_MEAN_HEIGHT = 3500.000
 BAND05_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND05_SCA02_MEAN_L1T_LINE_SAMP = (3187.410, 1472.424)
BAND05_SCA02_LINE_NUM_COEF = (-3.341940e-02, 1.017400e+00, -2.052627e-01, -3.508540e-04, -6.809505e-06)
BAND05_SCA02_LINE_DEN_COEF = (1.025892e-08, -6.290339e-06, -1.501115e-10, 2.176881e-12)
BAND05_SCA02_SAMP_NUM_COEF = (2.643456e-01, 2.284867e-01, 1.003129e+00, -3.925789e-03, 4.422179e-07)
BAND05_SCA02_SAMP_DEN_COEF = (-9.234662e-07, -6.398252e-06, -1.546692e-06, -6.919285e-12)
BAND05_SCA03_MEAN_HEIGHT = 3500.000
BAND05_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA03_MEAN_L1T_LINE_SAMP = (3617.484, 1841.950)
BAND05_SCA03_LINE_NUM_COEF = (-3.817122e-02, 1.017086e+00, -2.068062e-01, 2.221765e-04, -7.368462e-06)
BAND05_SCA03_LINE_DEN_COEF = (1.396819e-08, -6.792028e-06, -9.736013e-10, 2.192659e-12)
BAND05_SCA03_SAMP_NUM_COEF = (2.934952e-01, 2.290400e-01, 1.006118e+00, -3.198304e-03, 4.521814e-07)
BAND05_SCA03_SAMP_DEN_COEF = (-7.391673e-07, -5.619585e-06, -1.552805e-06, -6.646322e-12)
BAND05_SCA04_MEAN_HEIGHT = 3500.000
BAND05_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA04_MEAN_L1T_LINE_SAMP = (3383.124, 2359.220)
BAND05_SCA04_LINE_NUM_COEF = (-4.950899e-02, 1.015487e+00, -2.144211e-01, -3.014530e-04, -7.559745e-06)
BAND05_SCA04_LINE_DEN_COEF = (1.592295e-08, -6.949545e-06, -1.734845e-10, 2.210861e-12)
BAND05_SCA04_SAMP_NUM_COEF = (3.243974e-01, 2.305801e-01, 1.012870e+00, -2.481952e-03, 4.508358e-07)
BAND05_SCA04_SAMP_DEN_COEF = (-4.573402e-07, -4.351415e-06, -1.559298e-06, -6.189354e-12)
BAND05_SCA05_MEAN_HEIGHT = 3500.000
BAND05_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA05_MEAN_L1T_LINE_SAMP = (3812.707, 2724.694)
BAND05_SCA05_LINE_NUM_COEF = (-3.949002e-02, 1.014862e+00, -2.173405e-01, 2.654476e-04, -1.126168e-05)
BAND05_SCA05_LINE_DEN_COEF = (5.151001e-08, -1.026345e-05, -1.244788e-09, 2.260002e-12)
BAND05_SCA05_SAMP_NUM_COEF = (3.593803e-01, 2.306880e-01, 1.013900e+00, -1.747101e-03, 4.599896e-07)
BAND05_SCA05_SAMP_DEN_COEF = (-2.077094e-07, -3.284095e-06, -1.563692e-06, -5.787617e-12)
BAND05_SCA06_MEAN_HEIGHT = 3500.000
BAND05_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA06_MEAN_L1T_LINE_SAMP = (3580.276, 3238.744)
BAND05_SCA06_LINE_NUM_COEF = (-6.577295e-02, 1.013597e+00, -2.234855e-01, -2.740563e-04, -8.158670e-06)
BAND05_SCA06_LINE_DEN_COEF = (2.063895e-08, -7.470623e-06, -1.826442e-10, 2.243210e-12)
BAND05_SCA06_SAMP_NUM_COEF = (3.951249e-01, 2.316859e-01, 1.018261e+00, -1.017826e-03, 4.576058e-07)
BAND05_SCA06_SAMP_DEN_COEF = (1.350030e-07, -1.748160e-06, -1.567355e-06, -5.190158e-12)
BAND05_SCA07_MEAN_HEIGHT = 3500.000
BAND05_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA07_MEAN_L1T_LINE_SAMP = (4010.090, 3602.093)
BAND05_SCA07_LINE_NUM_COEF = (-6.338903e-02, 1.012656e+00, -2.278053e-01, 2.836082e-04, -1.020566e-05)
BAND05_SCA07_LINE_DEN_COEF = (4.120840e-08, -9.294609e-06, -1.224156e-09, 2.283887e-12)
BAND05_SCA07_SAMP_NUM_COEF = (4.322201e-01, 2.312462e-01, 1.016880e+00, -2.806806e-04, 4.657038e-07)
BAND05_SCA07_SAMP_DEN_COEF = (4.153575e-07, -5.438398e-07, -1.568779e-06, -4.721599e-12)
BAND05_SCA08_MEAN_HEIGHT = 3500.000
BAND05_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA08_MEAN_L1T_LINE_SAMP = (3779.051, 4115.244)
BAND05_SCA08_LINE_NUM_COEF = (-9.671996e-02, 1.011665e+00, -2.327447e-01, -2.692589e-04, -5.728733e-06)
BAND05_SCA08_LINE_DEN_COEF = (-6.269957e-09, -5.285390e-06, -3.215669e-10, 2.223111e-12)
BAND05_SCA08_SAMP_NUM_COEF = (4.698163e-01, 2.317517e-01, 1.019067e+00, 4.550637e-04, 4.623725e-07)
BAND05_SCA08_SAMP_DEN_COEF = (7.867194e-07, 1.118399e-06, -1.568623e-06, -4.051775e-12)
BAND05_SCA09_MEAN_HEIGHT = 3500.000
BAND05_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA09_MEAN_L1T_LINE_SAMP = (4210.656, 4477.999)
BAND05_SCA09_LINE_NUM_COEF = (-8.352879e-02, 1.010409e+00, -2.384645e-01, 2.770285e-04, -9.895207e-06)
BAND05_SCA09_LINE_DEN_COEF = (3.807747e-08, -8.994677e-06, -1.191305e-09, 2.305048e-12)

BAND05_SCA09_SAMP_NUM_COEF = (4.981178e-01, 2.308228e-01, 1.015529e+00, 1.187928e-03, 4.695039e-07)
BAND05_SCA09_SAMP_DEN_COEF = (9.923629e-07, 1.995983e-06, -1.567059e-06, -3.727586e-12)
BAND05_SCA10_MEAN_HEIGHT = 3500.000
BAND05_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA10_MEAN_L1T_LINE_SAMP = (3980.881, 4992.141)
BAND05_SCA10_LINE_NUM_COEF = (-9.614683e-02, 1.009711e+00, -2.421123e-01, -2.867785e-04, -9.477439e-06)
BAND05_SCA10_LINE_DEN_COEF = (3.298883e-08, -8.612563e-06, -8.540737e-11, 2.302935e-12)
BAND05_SCA10_SAMP_NUM_COEF = (5.149593e-01, 2.308191e-01, 1.015468e+00, 1.923997e-03, 4.651897e-07)
BAND05_SCA10_SAMP_DEN_COEF = (1.179866e-06, 2.849712e-06, -1.564625e-06, -3.410075e-12)
BAND05_SCA11_MEAN_HEIGHT = 3500.000
BAND05_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA11_MEAN_L1T_LINE_SAMP = (4414.992, 5356.249)
BAND05_SCA11_LINE_NUM_COEF = (-1.080742e-01, 1.008146e+00, -2.492107e-01, 2.446448e-04, -8.739076e-06)
BAND05_SCA11_LINE_DEN_COEF = (2.505861e-08, -7.943927e-06, -1.067718e-09, 2.296833e-12)
BAND05_SCA11_SAMP_NUM_COEF = (5.602092e-01, 2.293835e-01, 1.009693e+00, 2.646640e-03, 4.712747e-07)
BAND05_SCA11_SAMP_DEN_COEF = (1.545753e-06, 4.433793e-06, -1.559121e-06, -2.758993e-12)
BAND05_SCA12_MEAN_HEIGHT = 3500.000
BAND05_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA12_MEAN_L1T_LINE_SAMP = (4186.526, 5873.795)
BAND05_SCA12_LINE_NUM_COEF = (-1.334418e-01, 1.007848e+00, -2.510926e-01, -3.257799e-04, -5.931874e-06)
BAND05_SCA12_LINE_DEN_COEF = (-8.248688e-09, -5.443126e-06, -2.416544e-10, 2.227493e-12)
BAND05_SCA12_SAMP_NUM_COEF = (5.689897e-01, 2.288903e-01, 1.007468e+00, 3.377751e-03, 4.660191e-07)
BAND05_SCA12_SAMP_DEN_COEF = (1.664057e-06, 4.982869e-06, -1.555123e-06, -2.557888e-12)
BAND05_SCA13_MEAN_HEIGHT = 3500.000
BAND05_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA13_MEAN_L1T_LINE_SAMP = (4624.362, 6241.000)
BAND05_SCA13_LINE_NUM_COEF = (-1.152678e-01, 1.005928e+00, -2.597744e-01, 1.872364e-04, -1.064301e-05)
BAND05_SCA13_LINE_DEN_COEF = (4.698099e-08, -9.613010e-06, -1.035965e-09, 2.352167e-12)
BAND05_SCA13_SAMP_NUM_COEF = (6.347861e-01, 2.269671e-01, 9.995377e-01, 4.084283e-03, 4.710613e-07)
BAND05_SCA13_SAMP_DEN_COEF = (2.215994e-06, 7.387919e-06, -1.542824e-06, -1.521252e-12)
BAND05_SCA14_MEAN_HEIGHT = 3500.000
BAND05_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA14_MEAN_L1T_LINE_SAMP = (4397.289, 6763.486)
BAND05_SCA14_LINE_NUM_COEF = (-1.290237e-01, 1.005966e+00, -2.601800e-01, -3.867507e-04, -9.870131e-06)
BAND05_SCA14_LINE_DEN_COEF = (3.617273e-08, -8.923998e-06, 1.366085e-10, 2.328090e-12)
BAND05_SCA14_SAMP_NUM_COEF = (6.299637e-01, 2.259729e-01, 9.950986e-01, 4.803441e-03, 4.648417e-07)
BAND05_SCA14_SAMP_DEN_COEF = (2.213065e-06, 7.402869e-06, -1.538829e-06, -1.553308e-12)
END_GROUP = RPC_BAND05
GROUP = RPC_BAND06
BAND06_NUMBER_OF_SCAS = 14
BAND06_NUM_L1T_LINES = 7791
BAND06_NUM_L1T_SAMPS = 7701
BAND06_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND06_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND06_NUM_L1R_LINES = 7501
BAND06_NUM_L1R_SAMPS = 494
BAND06_PIXEL_SIZE = 30.000
BAND06_START_TIME = 10.618265
BAND06_LINE_TIME = 0.004236000
BAND06_MEAN_HEIGHT = 3500.000
BAND06_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND06_MEAN_L1T_LINE_SAMP = (3901.207, 3857.666)

BAND06_MEAN_SAT_VECTOR = (-0.002364143, 0.000803044, 0.996227661)
BAND06_SAT_X_NUM_COEF = (9.106423e-06, -2.857052e-07, -4.710422e-05, -3.148895e-09, -9.792575e-06,
1.360171e-11, 4.095707e-11, 9.550913e-12, 4.988689e-16, 4.422233e-17)
BAND06_SAT_X_DEN_COEF = (-2.954081e-06, 0.000000e+00, -1.402881e-06, 2.141962e-06, 3.702859e-11,
4.303549e-10, 9.536726e-10, -2.043400e-16, -3.919829e-18)
BAND06_SAT_Y_NUM_COEF = (3.124931e-04, 4.712330e-05, -2.905841e-07, 1.104796e-09, -4.431155e-05,
-9.344899e-13, -2.570569e-11, -9.534888e-11, -3.836171e-17, -1.938967e-17)
BAND06_SAT_Y_DEN_COEF = (1.088075e-07, -3.812336e-07, -1.405320e-06, 0.000000e+00, 3.315741e-11,
5.137124e-10, 9.470369e-10, -1.830777e-16, -7.776403e-18)
BAND06_SAT_Z_NUM_COEF = (3.670524e-03, -5.318281e-08, -1.098140e-07, -1.033957e-08, 2.722344e-08,
-5.435726e-11, -4.776805e-10, -1.049920e-09, 1.743279e-16, 7.858508e-20)
BAND06_SAT_Z_DEN_COEF = (-3.822524e-06, 1.096790e-06, -2.822341e-06, 4.015142e-06, 7.637235e-11,
6.419023e-10, 1.401551e-09, 1.930308e-16, 7.385008e-17)
BAND06_MEAN_SUN_VECTOR = (0.463271050, -0.054042626, 0.884482251)
BAND06_SUN_X_NUM_COEF = (1.773609e-05, -2.463019e-08, -4.051164e-06, -5.603472e-15, -2.440084e-07,
-2.158960e-13, -8.980419e-12, -5.870760e-12, 1.901085e-18, 2.986135e-18)
BAND06_SUN_X_DEN_COEF = (1.943499e-07, 0.000000e+00, -3.251837e-12, -1.826051e-07, -1.547406e-11,
-5.344086e-12, 9.464592e-12, -4.010374e-17, -6.080187e-18)
BAND06_SUN_Y_NUM_COEF = (2.645424e-05, 4.188929e-06, 9.046943e-07, -8.307442e-14, 5.608576e-08,
7.289767e-13, 1.118613e-11, -8.264433e-12, 3.067985e-18, -1.668061e-18)
BAND06_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, 9.629480e-12, -1.120509e-07, 3.613281e-12,
-3.142220e-12, 2.902650e-11, 5.931312e-16, -7.286387e-16)
BAND06_SUN_Z_NUM_COEF = (7.737684e-05, 2.686505e-07, 2.177059e-06, -9.211100e-15, 1.313332e-07,
-9.808226e-12, 5.580687e-13, -9.855496e-12, -1.343750e-18, -9.139497e-18)
BAND06_SUN_Z_DEN_COEF = (2.640085e-07, 0.000000e+00, -2.710820e-12, 5.357070e-07, 9.460141e-13,
3.903700e-12, 6.716644e-12, 1.337939e-16, 1.516705e-17)
BAND06_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
BAND06_SCA01_MEAN_HEIGHT = 3500.000
BAND06_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA01_MEAN_L1T_LINE_SAMP = (3550.275, 920.933)
BAND06_SCA01_LINE_NUM_COEF = (-5.126488e-03, 1.019417e+00, -1.957214e-01, 3.625115e-04, -1.007165e-05)
BAND06_SCA01_LINE_DEN_COEF = (3.919658e-08, -9.244428e-06, -1.384115e-09, 2.155547e-12)
BAND06_SCA01_SAMP_NUM_COEF = (2.399131e-01, 2.262452e-01, 9.933951e-01, -4.619978e-03, 4.447070e-07)
BAND06_SCA01_SAMP_DEN_COEF = (-1.142625e-06, -7.402841e-06, -1.538478e-06, -7.248412e-12)
BAND06_SCA02_MEAN_HEIGHT = 3500.000
BAND06_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA02_MEAN_L1T_LINE_SAMP = (3062.092, 1501.088)
BAND06_SCA02_LINE_NUM_COEF = (-3.806632e-02, 1.017264e+00, -2.059450e-01, -5.576999e-04, -5.980869e-06)
BAND06_SCA02_LINE_DEN_COEF = (2.609126e-09, -5.544253e-06, 4.532202e-11, 2.176719e-12)
BAND06_SCA02_SAMP_NUM_COEF = (2.682002e-01, 2.286851e-01, 1.003894e+00, -3.928689e-03, 4.401098e-07)
BAND06_SCA02_SAMP_DEN_COEF = (-8.737991e-07, -6.168706e-06, -1.547622e-06, -6.815592e-12)
BAND06_SCA03_MEAN_HEIGHT = 3500.000
BAND06_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA03_MEAN_L1T_LINE_SAMP = (3743.751, 1813.127)
BAND06_SCA03_LINE_NUM_COEF = (-3.400756e-02, 1.017179e+00, -2.063167e-01, 4.316477e-04, -8.104555e-06)
BAND06_SCA03_LINE_DEN_COEF = (2.077679e-08, -7.454778e-06, -1.352957e-09, 2.194049e-12)
BAND06_SCA03_SAMP_NUM_COEF = (2.923254e-01, 2.287938e-01, 1.005145e+00, -3.195322e-03, 4.542116e-07)
BAND06_SCA03_SAMP_DEN_COEF = (-7.635017e-07, -5.738032e-06, -1.552415e-06, -6.704262e-12)
BAND06_SCA04_MEAN_HEIGHT = 3500.000
BAND06_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA04_MEAN_L1T_LINE_SAMP = (3258.206, 2387.719)
BAND06_SCA04_LINE_NUM_COEF = (-5.488157e-02, 1.015382e+00, -2.149614e-01, -5.088997e-04, -6.581708e-06)

BAND06_SCA04_LINE_DEN_COEF = (6.463559e-09, -6.071231e-06, 4.646791e-11, 2.204363e-12)
BAND06_SCA04_SAMP_NUM_COEF = (3.272185e-01, 2.307874e-01, 1.013673e+00, -2.483898e-03, 4.487334e-07)
BAND06_SCA04_SAMP_DEN_COEF = (-4.163926e-07, -4.160317e-06, -1.559801e-06, -6.104610e-12)
BAND06_SCA05_MEAN_HEIGHT = 3500.000
BAND06_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA05_MEAN_L1T_LINE_SAMP = (3938.748, 2695.948)
BAND06_SCA05_LINE_NUM_COEF = (-3.791143e-02, 1.014911e+00, -2.170487e-01, 4.755650e-04, -1.144130e-05)
BAND06_SCA05_LINE_DEN_COEF = (5.313897e-08, -1.042596e-05, -1.742070e-09, 2.260074e-12)
BAND06_SCA05_SAMP_NUM_COEF = (3.640827e-01, 2.304323e-01, 1.012886e+00, -1.745454e-03, 4.620099e-07)
BAND06_SCA05_SAMP_DEN_COEF = (-1.786613e-07, -3.167656e-06, -1.563875e-06, -5.736101e-12)
BAND06_SCA06_MEAN_HEIGHT = 3500.000
BAND06_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA06_MEAN_L1T_LINE_SAMP = (3455.380, 3267.350)
BAND06_SCA06_LINE_NUM_COEF = (-6.941895e-02, 1.013550e+00, -2.237683e-01, -4.825450e-04, -7.547624e-06)
BAND06_SCA06_LINE_DEN_COEF = (1.449546e-08, -6.922765e-06, 1.042456e-10, 2.235914e-12)
BAND06_SCA06_SAMP_NUM_COEF = (3.997169e-01, 2.318819e-01, 1.019013e+00, -1.018341e-03, 4.554735e-07)
BAND06_SCA06_SAMP_DEN_COEF = (1.933612e-07, -1.480754e-06, -1.567659e-06, -5.072734e-12)
BAND06_SCA07_MEAN_HEIGHT = 3500.000
BAND06_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA07_MEAN_L1T_LINE_SAMP = (4136.082, 3573.428)
BAND06_SCA07_LINE_NUM_COEF = (-6.462132e-02, 1.012638e+00, -2.278098e-01, 4.941445e-04, -9.825674e-06)
BAND06_SCA07_LINE_DEN_COEF = (3.723004e-08, -8.955840e-06, -1.622156e-09, 2.278707e-12)
BAND06_SCA07_SAMP_NUM_COEF = (4.360910e-01, 2.310069e-01, 1.015939e+00, -2.804344e-04, 4.677580e-07)
BAND06_SCA07_SAMP_DEN_COEF = (4.358152e-07, -4.647798e-07, -1.568782e-06, -4.684859e-12)
BAND06_SCA08_MEAN_HEIGHT = 3500.000
BAND06_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA08_MEAN_L1T_LINE_SAMP = (3654.417, 4143.718)
BAND06_SCA08_LINE_NUM_COEF = (-9.363780e-02, 1.011674e+00, -2.327768e-01, -4.776349e-04, -6.465789e-06)
BAND06_SCA08_LINE_DEN_COEF = (1.587203e-09, -5.942505e-06, -7.265662e-12, 2.233928e-12)
BAND06_SCA08_SAMP_NUM_COEF = (4.653871e-01, 2.319455e-01, 1.019809e+00, 4.555749e-04, 4.602444e-07)
BAND06_SCA08_SAMP_DEN_COEF = (7.620417e-07, 1.020488e-06, -1.568704e-06, -4.101183e-12)
BAND06_SCA09_MEAN_HEIGHT = 3500.000
BAND06_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA09_MEAN_L1T_LINE_SAMP = (4336.780, 4449.338)
BAND06_SCA09_LINE_NUM_COEF = (-7.777688e-02, 1.010348e+00, -2.386647e-01, 4.875692e-04, -1.089204e-05)
BAND06_SCA09_LINE_DEN_COEF = (4.895529e-08, -9.883767e-06, -1.710745e-09, 2.324780e-12)
BAND06_SCA09_SAMP_NUM_COEF = (5.023795e-01, 2.305783e-01, 1.014566e+00, 1.186816e-03, 4.715405e-07)
BAND06_SCA09_SAMP_DEN_COEF = (1.015951e-06, 2.089161e-06, -1.566932e-06, -3.681077e-12)
BAND06_SCA10_MEAN_HEIGHT = 3500.000
BAND06_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA10_MEAN_L1T_LINE_SAMP = (3856.014, 5020.738)
BAND06_SCA10_LINE_NUM_COEF = (-9.599873e-02, 1.009821e+00, -2.416930e-01, -4.948296e-04, -9.605932e-06)
BAND06_SCA10_LINE_DEN_COEF = (3.429216e-08, -8.727012e-06, 3.265237e-10, 2.303932e-12)
BAND06_SCA10_SAMP_NUM_COEF = (5.122816e-01, 2.310176e-01, 1.016230e+00, 1.925771e-03, 4.630806e-07)
BAND06_SCA10_SAMP_DEN_COEF = (1.171600e-06, 2.823737e-06, -1.564710e-06, -3.423772e-12)
BAND06_SCA11_MEAN_HEIGHT = 3500.000
BAND06_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA11_MEAN_L1T_LINE_SAMP = (4541.278, 5327.652)
BAND06_SCA11_LINE_NUM_COEF = (-1.063390e-01, 1.008023e+00, -2.496838e-01, 4.545213e-04, -8.965892e-06)
BAND06_SCA11_LINE_DEN_COEF = (2.774390e-08, -8.145563e-06, -1.459644e-09, 2.305135e-12)
BAND06_SCA11_SAMP_NUM_COEF = (5.631641e-01, 2.291377e-01, 1.008724e+00, 2.644250e-03, 4.732910e-07)
BAND06_SCA11_SAMP_DEN_COEF = (1.556845e-06, 4.472303e-06, -1.559002e-06, -2.736024e-12)

BAND06_SCA12_MEAN_HEIGHT = 3500.000
BAND06_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA12_MEAN_L1T_LINE_SAMP = (4061.397, 5902.207)
BAND06_SCA12_LINE_NUM_COEF = (-1.358520e-01, 1.007976e+00, -2.505942e-01, -5.334078e-04, -5.569569e-06)
BAND06_SCA12_LINE_DEN_COEF = (-1.244238e-08, -5.120978e-06, -3.010279e-11, 2.214620e-12)
BAND06_SCA12_SAMP_NUM_COEF = (5.731668e-01, 2.290909e-01, 1.008240e+00, 3.380312e-03, 4.639343e-07)
BAND06_SCA12_SAMP_DEN_COEF = (1.718755e-06, 5.233743e-06, -1.554318e-06, -2.448542e-12)
BAND06_SCA13_MEAN_HEIGHT = 3500.000
BAND06_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA13_MEAN_L1T_LINE_SAMP = (4751.032, 6212.060)
BAND06_SCA13_LINE_NUM_COEF = (-1.077900e-01, 1.005789e+00, -2.603229e-01, 3.969773e-04, -1.183769e-05)
BAND06_SCA13_LINE_DEN_COEF = (6.128625e-08, -1.067227e-05, -1.581380e-09, 2.388462e-12)
BAND06_SCA13_SAMP_NUM_COEF = (6.343411e-01, 2.267225e-01, 9.985742e-01, 4.080071e-03, 4.730555e-07)
BAND06_SCA13_SAMP_DEN_COEF = (2.195688e-06, 7.288495e-06, -1.543217e-06, -1.557285e-12)
BAND06_SCA14_MEAN_HEIGHT = 3500.000
BAND06_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA14_MEAN_L1T_LINE_SAMP = (4271.448, 6792.015)
BAND06_SCA14_LINE_NUM_COEF = (-1.257078e-01, 1.006164e+00, -2.593691e-01, -5.934890e-04, -1.051380e-05)
BAND06_SCA14_LINE_DEN_COEF = (4.351226e-08, -9.495745e-06, 6.247169e-10, 2.341722e-12)
BAND06_SCA14_SAMP_NUM_COEF = (6.278563e-01, 2.261617e-01, 9.958180e-01, 4.806873e-03, 4.627553e-07)
BAND06_SCA14_SAMP_DEN_COEF = (2.210684e-06, 7.402280e-06, -1.538865e-06, -1.560497e-12)
END_GROUP = RPC_BAND06
GROUP = RPC_BAND07
BAND07_NUMBER_OF_SCAS = 14
BAND07_NUM_L1T_LINES = 7791
BAND07_NUM_L1T_SAMPS = 7701
BAND07_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND07_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND07_NUM_L1R_LINES = 7501
BAND07_NUM_L1R_SAMPS = 494
BAND07_PIXEL_SIZE = 30.000
BAND07_START_TIME = 10.618265
BAND07_LINE_TIME = 0.004236000
BAND07_MEAN_HEIGHT = 3500.000
BAND07_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND07_MEAN_L1T_LINE_SAMP = (3901.184, 3857.673)
BAND07_MEAN_SAT_VECTOR = (-0.002365362, 0.000802279, 0.996245733)
BAND07_SAT_X_NUM_COEF = (1.022078e-05, -2.856941e-07, -4.710500e-05, -3.149620e-09, -9.792753e-06,
1.358653e-11, 4.088926e-11, 9.548168e-12, 4.997512e-16, 4.422806e-17)
BAND07_SAT_X_DEN_COEF = (-2.951968e-06, 0.000000e+00, -1.402882e-06, 2.141383e-06, 3.701115e-11,
4.303594e-10, 9.536747e-10, -2.045648e-16, -3.921323e-18)
BAND07_SAT_Y_NUM_COEF = (3.121318e-04, 4.712394e-05, -2.905678e-07, 1.103537e-09, -4.431187e-05,
-9.329293e-13, -2.570534e-11, -9.534480e-11, -5.810652e-17, -1.941775e-17)
BAND07_SAT_Y_DEN_COEF = (1.087982e-07, -3.812473e-07, -1.405066e-06, 0.000000e+00, 3.270506e-11,
5.214561e-10, 9.456658e-10, -1.703101e-16, -9.483574e-18)
BAND07_SAT_Z_NUM_COEF = (3.670621e-03, -5.313248e-08, -1.098248e-07, -1.034570e-08, 2.717711e-08,
-5.435035e-11, -4.776847e-10, -1.049931e-09, 1.745481e-16, 8.297837e-20)
BAND07_SAT_Z_DEN_COEF = (-3.825172e-06, 1.097247e-06, -2.822344e-06, 4.019440e-06, 7.590009e-11,
6.403290e-10, 1.400118e-09, 1.369572e-16, 7.380612e-17)
BAND07_MEAN_SUN_VECTOR = (0.463270968, -0.054042579, 0.884482421)
BAND07_SUN_X_NUM_COEF = (1.779043e-05, -2.463026e-08, -4.051164e-06, -4.319933e-15, -2.440085e-07,
-2.159561e-13, -8.981280e-12, -5.870746e-12, 1.905739e-18, 2.987683e-18)

BAND07_SUN_X_DEN_COEF = (1.945617e-07, 0.000000e+00, -3.307034e-12, -1.826017e-07, -1.547113e-11,
-5.342727e-12, 9.460369e-12, -4.019022e-17, -6.072475e-18)
BAND07_SUN_Y_NUM_COEF = (2.630649e-05, 4.188923e-06, 9.046932e-07, -8.531034e-14, 5.609171e-08,
7.258405e-13, 1.118012e-11, -8.261344e-12, 4.450059e-18, -1.969491e-18)
BAND07_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, 1.040744e-11, -1.141559e-07, 3.622351e-12,
-2.775878e-12, 2.875321e-11, 4.859470e-16, -6.045191e-16)
BAND07_SUN_Z_NUM_COEF = (7.721634e-05, 2.686508e-07, 2.177059e-06, -7.441522e-15, 1.313339e-07,
-9.806665e-12, 5.683910e-13, -9.855735e-12, -1.378049e-18, -9.181224e-18)
BAND07_SUN_Z_DEN_COEF = (2.688568e-07, 0.000000e+00, -3.046866e-12, 5.356195e-07, 9.617477e-13,
3.923707e-12, 6.694267e-12, 1.106056e-16, 1.546513e-17)
BAND07_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
BAND07_SCA01_MEAN_HEIGHT = 3500.000
BAND07_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA01_MEAN_L1T_LINE_SAMP = (3521.848, 927.386)
BAND07_SCA01_LINE_NUM_COEF = (-3.215790e-03, 1.019375e+00, -1.959225e-01, 3.159245e-04, -1.053971e-05)
BAND07_SCA01_LINE_DEN_COEF = (4.347660e-08, -9.665276e-06, -1.318240e-09, 2.156862e-12)
BAND07_SCA01_SAMP_NUM_COEF = (2.438765e-01, 2.262915e-01, 9.935744e-01, -4.620852e-03, 4.442377e-07)
BAND07_SCA01_SAMP_DEN_COEF = (-1.103713e-06, -7.229343e-06, -1.539286e-06, -7.170287e-12)
BAND07_SCA02_MEAN_HEIGHT = 3500.000
BAND07_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA02_MEAN_L1T_LINE_SAMP = (3090.404, 1494.606)
BAND07_SCA02_LINE_NUM_COEF = (-3.508826e-02, 1.017290e+00, -2.058090e-01, -5.109015e-04, -6.586418e-06)
BAND07_SCA02_LINE_DEN_COEF = (8.290075e-09, -6.088560e-06, 5.010251e-11, 2.178442e-12)
BAND07_SCA02_SAMP_NUM_COEF = (2.636960e-01, 2.286360e-01, 1.003703e+00, -3.927963e-03, 4.405782e-07)
BAND07_SCA02_SAMP_DEN_COEF = (-9.181032e-07, -6.365794e-06, -1.546843e-06, -6.903134e-12)
BAND07_SCA03_MEAN_HEIGHT = 3500.000
BAND07_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA03_MEAN_L1T_LINE_SAMP = (3715.438, 1819.563)
BAND07_SCA03_LINE_NUM_COEF = (-3.584013e-02, 1.017152e+00, -2.064528e-01, 3.847746e-04, -7.744850e-06)
BAND07_SCA03_LINE_DEN_COEF = (1.742213e-08, -7.131270e-06, -1.247593e-09, 2.192599e-12)
BAND07_SCA03_SAMP_NUM_COEF = (2.897288e-01, 2.288439e-01, 1.005340e+00, -3.195954e-03, 4.537465e-07)
BAND07_SCA03_SAMP_DEN_COEF = (-7.840593e-07, -5.825753e-06, -1.552138e-06, -6.743293e-12)
BAND07_SCA04_MEAN_HEIGHT = 3500.000
BAND07_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA04_MEAN_L1T_LINE_SAMP = (3286.407, 2381.266)
BAND07_SCA04_LINE_NUM_COEF = (-5.370089e-02, 1.015393e+00, -2.148974e-01, -4.619173e-04, -6.798501e-06)
BAND07_SCA04_LINE_DEN_COEF = (8.577407e-09, -6.265821e-06, 3.365893e-12, 2.205603e-12)
BAND07_SCA04_SAMP_NUM_COEF = (3.305185e-01, 2.307341e-01, 1.013463e+00, -2.483424e-03, 4.491957e-07)
BAND07_SCA04_SAMP_DEN_COEF = (-3.892402e-07, -4.043586e-06, -1.560078e-06, -6.053697e-12)
BAND07_SCA05_MEAN_HEIGHT = 3500.000
BAND07_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA05_MEAN_L1T_LINE_SAMP = (3910.512, 2702.380)
BAND07_SCA05_LINE_NUM_COEF = (-3.802547e-02, 1.014894e+00, -2.171403e-01, 4.285425e-04, -1.145212e-05)
BAND07_SCA05_LINE_DEN_COEF = (5.329247e-08, -1.043524e-05, -1.633857e-09, 2.260437e-12)
BAND07_SCA05_SAMP_NUM_COEF = (3.633672e-01, 2.304846e-01, 1.013091e+00, -1.745796e-03, 4.615478e-07)
BAND07_SCA05_SAMP_DEN_COEF = (-1.819559e-07, -3.179620e-06, -1.563858e-06, -5.741698e-12)
BAND07_SCA06_MEAN_HEIGHT = 3500.000
BAND07_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA06_MEAN_L1T_LINE_SAMP = (3483.536, 3260.924)
BAND07_SCA06_LINE_NUM_COEF = (-6.921995e-02, 1.013550e+00, -2.237511e-01, -4.355029e-04, -7.558913e-06)
BAND07_SCA06_LINE_DEN_COEF = (1.460144e-08, -6.933067e-06, 3.292252e-11, 2.235824e-12)
BAND07_SCA06_SAMP_NUM_COEF = (4.015410e-01, 2.318352e-01, 1.018833e+00, -1.018182e-03, 4.559495e-07)

BAND07_SCA06_SAMP_DEN_COEF = (2.067096e-07, -1.424552e-06, -1.567706e-06, -5.047710e-12)
BAND07_SCA07_MEAN_HEIGHT = 3500.000
BAND07_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA07_MEAN_L1T_LINE_SAMP = (4107.880, 3579.854)
BAND07_SCA07_LINE_NUM_COEF = (-6.752313e-02, 1.012631e+00, -2.278584e-01, 4.470374e-04, -9.269036e-06)
BAND07_SCA07_LINE_DEN_COEF = (3.146737e-08, -8.458067e-06, -1.478283e-09, 2.270772e-12)
BAND07_SCA07_SAMP_NUM_COEF = (4.340203e-01, 2.310579e-01, 1.016138e+00, -2.804677e-04, 4.672934e-07)
BAND07_SCA07_SAMP_DEN_COEF = (4.201690e-07, -5.311454e-07, -1.568768e-06, -4.716242e-12)
BAND07_SCA08_MEAN_HEIGHT = 3500.000
BAND07_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA08_MEAN_L1T_LINE_SAMP = (3682.574, 4137.300)
BAND07_SCA08_LINE_NUM_COEF = (-9.166186e-02, 1.011664e+00, -2.328016e-01, -4.305863e-04, -6.834793e-06)
BAND07_SCA08_LINE_DEN_COEF = (5.506965e-09, -6.272015e-06, -3.737696e-11, 2.240203e-12)
BAND07_SCA08_SAMP_NUM_COEF = (4.665824e-01, 2.318944e-01, 1.019609e+00, 4.554686e-04, 4.607108e-07)
BAND07_SCA08_SAMP_DEN_COEF = (7.695403e-07, 1.051065e-06, -1.568681e-06, -4.086847e-12)
BAND07_SCA09_MEAN_HEIGHT = 3500.000
BAND07_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA09_MEAN_L1T_LINE_SAMP = (4308.558, 4455.776)
BAND07_SCA09_LINE_NUM_COEF = (-7.707132e-02, 1.010359e+00, -2.386326e-01, 4.404280e-04, -1.105494e-05)
BAND07_SCA09_LINE_DEN_COEF = (5.072173e-08, -1.002886e-05, -1.621257e-09, 2.327300e-12)
BAND07_SCA09_SAMP_NUM_COEF = (5.014277e-01, 2.306305e-01, 1.014771e+00, 1.187092e-03, 4.710802e-07)
BAND07_SCA09_SAMP_DEN_COEF = (1.010729e-06, 2.068557e-06, -1.566960e-06, -3.691683e-12)
BAND07_SCA10_MEAN_HEIGHT = 3500.000
BAND07_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA10_MEAN_L1T_LINE_SAMP = (3884.210, 5014.328)
BAND07_SCA10_LINE_NUM_COEF = (-9.280495e-02, 1.009793e+00, -2.418038e-01, -4.479075e-04, -1.019518e-05)
BAND07_SCA10_LINE_DEN_COEF = (4.081680e-08, -9.251824e-06, 2.881576e-10, 2.316384e-12)
BAND07_SCA10_SAMP_NUM_COEF = (5.134890e-01, 2.309673e-01, 1.016034e+00, 1.925400e-03, 4.635462e-07)
BAND07_SCA10_SAMP_DEN_COEF = (1.179104e-06, 2.854405e-06, -1.564643e-06, -3.409735e-12)
BAND07_SCA11_MEAN_HEIGHT = 3500.000
BAND07_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA11_MEAN_L1T_LINE_SAMP = (4513.011, 5334.114)
BAND07_SCA11_LINE_NUM_COEF = (-1.058337e-01, 1.008043e+00, -2.496128e-01, 4.074259e-04, -9.080297e-06)
BAND07_SCA11_LINE_DEN_COEF = (2.902933e-08, -8.247238e-06, -1.383543e-09, 2.306812e-12)
BAND07_SCA11_SAMP_NUM_COEF = (5.639368e-01, 2.291898e-01, 1.008928e+00, 2.644846e-03, 4.728341e-07)
BAND07_SCA11_SAMP_DEN_COEF = (1.567525e-06, 4.521629e-06, -1.558876e-06, -2.714679e-12)
BAND07_SCA12_MEAN_HEIGHT = 3500.000
BAND07_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA12_MEAN_L1T_LINE_SAMP = (4089.683, 5895.784)
BAND07_SCA12_LINE_NUM_COEF = (-1.318342e-01, 1.007941e+00, -2.507352e-01, -4.865778e-04, -6.285034e-06)
BAND07_SCA12_LINE_DEN_COEF = (-4.259994e-09, -5.756891e-06, -1.343714e-11, 2.232951e-12)
BAND07_SCA12_SAMP_NUM_COEF = (5.718819e-01, 2.290395e-01, 1.008039e+00, 3.379644e-03, 4.643936e-07)
BAND07_SCA12_SAMP_DEN_COEF = (1.703338e-06, 5.163606e-06, -1.554544e-06, -2.479890e-12)
BAND07_SCA13_MEAN_HEIGHT = 3500.000
BAND07_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA13_MEAN_L1T_LINE_SAMP = (4722.668, 6218.555)
BAND07_SCA13_LINE_NUM_COEF = (-1.074445e-01, 1.005820e+00, -2.602032e-01, 3.499875e-04, -1.191839e-05)
BAND07_SCA13_LINE_DEN_COEF = (6.219793e-08, -1.074394e-05, -1.474920e-09, 2.389470e-12)
BAND07_SCA13_SAMP_NUM_COEF = (6.316582e-01, 2.267753e-01, 9.987813e-01, 4.081008e-03, 4.726053e-07)
BAND07_SCA13_SAMP_DEN_COEF = (2.175048e-06, 7.199829e-06, -1.543582e-06, -1.601647e-12)
BAND07_SCA14_MEAN_HEIGHT = 3500.000
BAND07_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND07_SCA14_MEAN_L1T_LINE_SAMP = (4299.854, 6785.581)
BAND07_SCA14_LINE_NUM_COEF = (-1.237928e-01, 1.006105e+00, -2.596160e-01, -5.471401e-04, -1.082696e-05)
BAND07_SCA14_LINE_DEN_COEF = (4.729472e-08, -9.773153e-06, 5.607093e-10, 2.351481e-12)
BAND07_SCA14_SAMP_NUM_COEF = (6.271503e-01, 2.261157e-01, 9.956406e-01, 4.806036e-03, 4.632195e-07)
BAND07_SCA14_SAMP_DEN_COEF = (2.200580e-06, 7.355559e-06, -1.539083e-06, -1.581765e-12)
END_GROUP = RPC_BAND07
GROUP = RPC_BAND08
BAND08_NUMBER_OF_SCAS = 14
BAND08_NUM_L1T_LINES = 15581
BAND08_NUM_L1T_SAMPS = 15401
BAND08_L1T_IMAGE_CORNER_LINES = (0.288126, 2838.842411, 15567.772672, 12721.674271)
BAND08_L1T_IMAGE_CORNER_SAMPS = (2906.689141, 15392.055031, 12500.809185, 8.942532)
BAND08_NUM_L1R_LINES = 15002
BAND08_NUM_L1R_SAMPS = 988
BAND08_PIXEL_SIZE = 15.000
BAND08_START_TIME = 10.618265
BAND08_LINE_TIME = 0.002118000
BAND08_MEAN_HEIGHT = 3500.000
BAND08_MEAN_L1R_LINE_SAMP = (7528.774, 6937.357)
BAND08_MEAN_L1T_LINE_SAMP = (7803.322, 7715.513)
BAND08_MEAN_SAT_VECTOR = (-0.002379198, 0.000804318, 0.996318345)
BAND08_SAT_X_NUM_COEF = (1.560015e-05, -1.427890e-07, -2.355406e-05, -3.364980e-09, -4.896766e-06,
2.654955e-12, 4.673605e-12, -7.672673e-12, 6.663218e-17, 5.567143e-18)
BAND08_SAT_X_DEN_COEF = (-1.230026e-06, 4.302164e-07, -1.402965e-06, 9.725377e-07, 9.087258e-12,
1.076842e-10, 2.383637e-10, -2.564161e-17, -3.673370e-19)
BAND08_SAT_Y_NUM_COEF = (3.101775e-04, 2.356350e-05, -1.452487e-07, 1.105196e-09, -2.215663e-05,
-2.308036e-13, -6.425800e-12, -2.382885e-11, -1.751899e-17, -2.438556e-18)
BAND08_SAT_Y_DEN_COEF = (5.444804e-08, -1.896893e-07, -1.403350e-06, 0.000000e+00, 8.308273e-12,
1.395061e-10, 2.352653e-10, -8.804497e-18, -2.881515e-18)
BAND08_SAT_Z_NUM_COEF = (3.670684e-03, -2.656557e-08, -5.510740e-08, -1.036940e-08, 1.355633e-08,
-1.357981e-11, -1.194240e-10, -2.624916e-10, 2.193077e-17, 1.277754e-20)
BAND08_SAT_Z_DEN_COEF = (-1.912805e-06, 5.493031e-07, -2.822341e-06, -2.015706e-06, 1.829513e-11,
1.575545e-10, 3.478708e-10, -8.160060e-18, 9.309749e-18)
BAND08_MEAN_SUN_VECTOR = (0.463270198, -0.054039706, 0.884483444)
BAND08_SUN_X_NUM_COEF = (1.808519e-05, -1.231539e-08, -2.025585e-06, 8.511927e-16, -1.220046e-07,
-5.431463e-14, -2.250076e-12, -1.467650e-12, 2.266018e-19, 3.773193e-19)
BAND08_SUN_X_DEN_COEF = (9.959856e-08, 0.000000e+00, -3.428742e-12, -9.124834e-08, -3.856690e-12,
-1.340104e-12, 2.358524e-12, -5.081861e-18, -7.647976e-19)
BAND08_SUN_Y_NUM_COEF = (2.542908e-05, 2.094339e-06, 4.522793e-07, -3.543602e-14, 2.798243e-08,
-1.514058e-11, -2.171741e-12, -2.423809e-12, -2.674743e-18, 4.469629e-20)
BAND08_SUN_Y_DEN_COEF = (-7.312376e-06, -7.992434e-07, -1.629633e-11, 3.250626e-08, 1.728037e-12,
7.080637e-12, 0.000000e+00, 5.255745e-18, -8.705977e-18)
BAND08_SUN_Z_NUM_COEF = (7.657043e-05, 1.343099e-07, 1.088473e-06, -7.515246e-15, 6.566906e-08,
-2.475579e-12, -1.313532e-13, -3.251930e-12, -1.762855e-19, -1.191581e-18)
BAND08_SUN_Z_DEN_COEF = (-2.786188e-08, -7.237143e-07, -4.495951e-12, 3.119561e-07, -1.435174e-12,
8.138636e-13, 0.000000e+00, -4.843206e-18, 1.058390e-18)
BAND08_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
BAND08_SCA01_MEAN_HEIGHT = 3500.000
BAND08_SCA01_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA01_MEAN_L1T_LINE_SAMP = (6678.701, 1938.617)
BAND08_SCA01_LINE_NUM_COEF = (-2.290931e-02, 1.019130e+00, -1.971226e-01, 2.998438e-05, -4.484971e-06)
BAND08_SCA01_LINE_DEN_COEF = (1.489922e-08, -4.124178e-06, -6.673966e-10, 5.392000e-13)

BAND08_SCA01_SAMP_NUM_COEF = (4.747008e-01, 2.266255e-01, 9.948877e-01, -9.252847e-03, 2.206381e-07)
BAND08_SCA01_SAMP_DEN_COEF = (-5.711294e-07, -3.690765e-06, -1.538598e-06, -1.808417e-12)
BAND08_SCA02_MEAN_HEIGHT = 3500.000
BAND08_SCA02_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA02_MEAN_L1T_LINE_SAMP = (6546.885, 2906.049)
BAND08_SCA02_LINE_NUM_COEF = (-6.269011e-02, 1.017489e+00, -2.048173e-01, -4.203604e-04, -3.566566e-06)
BAND08_SCA02_LINE_DEN_COEF = (6.592401e-09, -3.291149e-06, -3.325726e-10, 5.428168e-13)
BAND08_SCA02_SAMP_NUM_COEF = (5.317831e-01, 2.283510e-01, 1.002605e+00, -7.846777e-03, 2.218237e-07)
BAND08_SCA02_SAMP_DEN_COEF = (-4.590476e-07, -3.191253e-06, -1.546737e-06, -1.728613e-12)
BAND08_SCA03_MEAN_HEIGHT = 3500.000
BAND08_SCA03_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA03_MEAN_L1T_LINE_SAMP = (7067.461, 3722.536)
BAND08_SCA03_LINE_NUM_COEF = (-7.500110e-02, 1.017024e+00, -2.071324e-01, 1.636702e-04, -3.809749e-06)
BAND08_SCA03_LINE_DEN_COEF = (8.220268e-09, -3.508222e-06, -7.663905e-10, 5.477742e-13)
BAND08_SCA03_SAMP_NUM_COEF = (5.893640e-01, 2.291941e-01, 1.006723e+00, -6.399706e-03, 2.253987e-07)
BAND08_SCA03_SAMP_DEN_COEF = (-3.589801e-07, -2.759356e-06, -1.553140e-06, -1.649529e-12)
BAND08_SCA04_MEAN_HEIGHT = 3500.000
BAND08_SCA04_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA04_MEAN_L1T_LINE_SAMP = (6937.759, 4679.728)
BAND08_SCA04_LINE_NUM_COEF = (-9.710859e-02, 1.015539e+00, -2.141414e-01, -3.204240e-04, -3.824497e-06)
BAND08_SCA04_LINE_DEN_COEF = (8.355967e-09, -3.515273e-06, -3.884636e-10, 5.513655e-13)
BAND08_SCA04_SAMP_NUM_COEF = (6.535892e-01, 2.304401e-01, 1.012329e+00, -4.960651e-03, 2.261323e-07)
BAND08_SCA04_SAMP_DEN_COEF = (-2.223605e-07, -2.151814e-06, -1.559396e-06, -1.542312e-12)
BAND08_SCA05_MEAN_HEIGHT = 3500.000
BAND08_SCA05_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA05_MEAN_L1T_LINE_SAMP = (7458.315, 5487.910)
BAND08_SCA05_LINE_NUM_COEF = (-7.683912e-02, 1.014837e+00, -2.175059e-01, 2.494273e-04, -5.788684e-06)
BAND08_SCA05_LINE_DEN_COEF = (2.736838e-08, -5.272654e-06, -9.311322e-10, 5.648713e-13)
BAND08_SCA05_SAMP_NUM_COEF = (7.130018e-01, 2.308460e-01, 1.014521e+00, -3.495571e-03, 2.293041e-07)
BAND08_SCA05_SAMP_DEN_COEF = (-1.119309e-07, -1.673781e-06, -1.563597e-06, -1.453639e-12)
BAND08_SCA06_MEAN_HEIGHT = 3500.000
BAND08_SCA06_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA06_MEAN_L1T_LINE_SAMP = (7331.745, 6438.899)
BAND08_SCA06_LINE_NUM_COEF = (-1.188445e-01, 1.013609e+00, -2.233815e-01, -2.650680e-04, -4.685604e-06)
BAND08_SCA06_LINE_DEN_COEF = (1.648268e-08, -4.278052e-06, -3.853477e-10, 5.631800e-13)
BAND08_SCA06_SAMP_NUM_COEF = (7.902280e-01, 2.315398e-01, 1.017694e+00, -2.033883e-03, 2.295126e-07)
BAND08_SCA06_SAMP_DEN_COEF = (6.236280e-08, -9.003808e-07, -1.567281e-06, -1.303440e-12)
BAND08_SCA07_MEAN_HEIGHT = 3500.000
BAND08_SCA07_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA07_MEAN_L1T_LINE_SAMP = (7853.271, 7242.642)
BAND08_SCA07_LINE_NUM_COEF = (-1.287768e-01, 1.012664e+00, -2.278216e-01, 2.854990e-04, -5.041250e-06)
BAND08_SCA07_LINE_DEN_COEF = (1.997711e-08, -4.591970e-06, -9.291006e-10, 5.692932e-13)
BAND08_SCA07_SAMP_NUM_COEF = (8.586808e-01, 2.314068e-01, 1.017512e+00, -5.609359e-04, 2.321642e-07)
BAND08_SCA07_SAMP_DEN_COEF = (1.995360e-07, -3.040760e-07, -1.568776e-06, -1.187785e-12)
BAND08_SCA08_MEAN_HEIGHT = 3500.000
BAND08_SCA08_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA08_MEAN_L1T_LINE_SAMP = (7729.277, 8191.910)
BAND08_SCA08_LINE_NUM_COEF = (-1.769158e-01, 1.011646e+00, -2.327787e-01, -2.553012e-04, -3.645600e-06)
BAND08_SCA08_LINE_DEN_COEF = (5.156419e-09, -3.340285e-06, -4.472247e-10, 5.611347e-13)
BAND08_SCA08_SAMP_NUM_COEF = (9.455079e-01, 2.316071e-01, 1.018507e+00, 9.102146e-04, 2.318962e-07)
BAND08_SCA08_SAMP_DEN_COEF = (4.014041e-07, 5.909750e-07, -1.568572e-06, -1.005039e-12)
BAND08_SCA09_MEAN_HEIGHT = 3500.000

BAND08_SCA09_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA09_MEAN_L1T_LINE_SAMP = (8254.339, 8994.480)
BAND08_SCA09_LINE_NUM_COEF = (-1.684455e-01, 1.010451e+00, -2.383295e-01, 2.724525e-04, -4.914054e-06)
BAND08_SCA09_LINE_DEN_COEF = (1.866119e-08, -4.467289e-06, -9.073010e-10, 5.743943e-13)
BAND08_SCA09_SAMP_NUM_COEF = (9.972879e-01, 2.309742e-01, 1.016121e+00, 2.378061e-03, 2.340578e-07)
BAND08_SCA09_SAMP_DEN_COEF = (5.037781e-07, 1.034959e-06, -1.566987e-06, -9.238436e-13)
BAND08_SCA10_MEAN_HEIGHT = 3500.000
BAND08_SCA10_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA10_MEAN_L1T_LINE_SAMP = (8133.166, 9945.652)
BAND08_SCA10_LINE_NUM_COEF = (-1.896965e-01, 1.009655e+00, -2.423114e-01, -2.905427e-04, -4.822310e-06)
BAND08_SCA10_LINE_DEN_COEF = (1.743995e-08, -4.380818e-06, -3.520527e-10, 5.756451e-13)
BAND08_SCA10_SAMP_NUM_COEF = (1.044629e+00, 2.306706e-01, 1.014891e+00, 3.846325e-03, 2.332970e-07)
BAND08_SCA10_SAMP_DEN_COEF = (6.180817e-07, 1.545172e-06, -1.564146e-06, -8.240978e-13)
BAND08_SCA11_MEAN_HEIGHT = 3500.000
BAND08_SCA11_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA11_MEAN_L1T_LINE_SAMP = (8662.681, 10751.066)
BAND08_SCA11_LINE_NUM_COEF = (-2.129309e-01, 1.008229e+00, -2.488894e-01, 2.083500e-04, -4.543884e-06)
BAND08_SCA11_LINE_DEN_COEF = (1.446707e-08, -4.127030e-06, -8.265321e-10, 5.743141e-13)
BAND08_SCA11_SAMP_NUM_COEF = (1.118396e+00, 2.295370e-01, 1.010293e+00, 5.297306e-03, 2.349505e-07)
BAND08_SCA11_SAMP_DEN_COEF = (7.732943e-07, 2.222187e-06, -1.559106e-06, -6.892187e-13)
BAND08_SCA12_MEAN_HEIGHT = 3500.000
BAND08_SCA12_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA12_MEAN_L1T_LINE_SAMP = (8544.946, 11708.857)
BAND08_SCA12_LINE_NUM_COEF = (-2.548041e-01, 1.007748e+00, -2.514900e-01, -3.695158e-04, -3.484853e-06)
BAND08_SCA12_LINE_DEN_COEF = (1.839999e-09, -3.182727e-06, -3.732676e-10, 5.625260e-13)
BAND08_SCA12_SAMP_NUM_COEF = (1.143798e+00, 2.287453e-01, 1.006907e+00, 6.752226e-03, 2.337089e-07)
BAND08_SCA12_SAMP_DEN_COEF = (8.393581e-07, 2.520250e-06, -1.554908e-06, -6.319371e-13)
BAND08_SCA13_MEAN_HEIGHT = 3500.000
BAND08_SCA13_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA13_MEAN_L1T_LINE_SAMP = (9080.726, 12520.745)
BAND08_SCA13_LINE_NUM_COEF = (-2.268197e-01, 1.006054e+00, -2.592660e-01, 9.463128e-05, -5.505344e-06)
BAND08_SCA13_LINE_DEN_COEF = (2.557205e-08, -4.969864e-06, -7.390646e-10, 5.884088e-13)
BAND08_SCA13_SAMP_NUM_COEF = (1.265424e+00, 2.271228e-01, 1.000148e+00, 8.174504e-03, 2.348533e-07)
BAND08_SCA13_SAMP_DEN_COEF = (1.103488e-06, 3.677449e-06, -1.542969e-06, -3.853240e-13)
BAND08_SCA14_MEAN_HEIGHT = 3500.000
BAND08_SCA14_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA14_MEAN_L1T_LINE_SAMP = (8967.232, 13488.097)
BAND08_SCA14_LINE_NUM_COEF = (-2.595531e-01, 1.005829e+00, -2.607435e-01, -4.927156e-04, -4.842455e-06)
BAND08_SCA14_LINE_DEN_COEF = (1.707570e-08, -4.379589e-06, -1.520580e-10, 5.801734e-13)
BAND08_SCA14_SAMP_NUM_COEF = (1.261877e+00, 2.258448e-01, 9.946109e-01, 9.602656e-03, 2.331286e-07)
BAND08_SCA14_SAMP_DEN_COEF = (1.104670e-06, 3.689872e-06, -1.538919e-06, -3.897694e-13)
END_GROUP = RPC_BAND08
GROUP = RPC_BAND09
BAND09_NUMBER_OF_SCAS = 14
BAND09_NUM_L1T_LINES = 7791
BAND09_NUM_L1T_SAMPS = 7701
BAND09_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND09_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND09_NUM_L1R_LINES = 7501
BAND09_NUM_L1R_SAMPS = 494
BAND09_PIXEL_SIZE = 30.000
BAND09_START_TIME = 10.618265

BAND09_LINE_TIME = 0.004236000
BAND09_MEAN_HEIGHT = 3500.000
BAND09_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND09_MEAN_L1T_LINE_SAMP = (3901.340, 3857.659)
BAND09_MEAN_SAT_VECTOR = (-0.002362929, 0.000808964, 0.996207619)
BAND09_SAT_X_NUM_COEF = (7.928488e-06, -2.857118e-07, -4.710338e-05, -3.148175e-09, -9.792384e-06,
1.361197e-11, 4.100290e-11, 9.552533e-12, 4.981732e-16, 4.421830e-17)
BAND09_SAT_X_DEN_COEF = (-2.955360e-06, 0.000000e+00, -1.402880e-06, 2.142205e-06, 3.704177e-11,
4.303531e-10, 9.536724e-10, -2.041235e-16, -3.917972e-18)
BAND09_SAT_Y_NUM_COEF = (3.123199e-04, 4.712266e-05, -2.906005e-07, 1.115541e-09, -4.431122e-05,
-9.224947e-13, -2.559310e-11, -9.510818e-11, -1.861361e-17, -1.936052e-17)
BAND09_SAT_Y_DEN_COEF = (0.000000e+00, -3.295819e-07, -1.405560e-06, 1.136279e-07, 3.370197e-11,
5.062628e-10, 9.488208e-10, -1.920462e-16, -3.302721e-17)
BAND09_SAT_Z_NUM_COEF = (3.670533e-03, -5.348506e-08, -1.098031e-07, -1.033316e-08, 2.750632e-08,
-5.436461e-11, -4.776757e-10, -1.049907e-09, 1.740919e-16, 7.399308e-20)
BAND09_SAT_Z_DEN_COEF = (-3.824734e-06, 1.096212e-06, -2.822338e-06, 4.015389e-06, 7.683886e-11,
6.433533e-10, 1.402659e-09, 2.549809e-16, 7.394198e-17)
BAND09_MEAN_SUN_VECTOR = (0.463271130, -0.054042215, 0.884482093)
BAND09_SUN_X_NUM_COEF = (1.768030e-05, -2.463016e-08, -4.051165e-06, -7.018486e-15, -2.440083e-07,
-2.158459e-13, -8.979716e-12, -5.870775e-12, 1.895726e-18, 2.984702e-18)
BAND09_SUN_X_DEN_COEF = (1.941731e-07, 0.000000e+00, -3.195623e-12, -1.826076e-07, -1.547696e-11,
-5.345861e-12, 9.468786e-12, -4.001276e-17, -6.089050e-18)
BAND09_SUN_Y_NUM_COEF = (2.660690e-05, 4.188934e-06, 9.046965e-07, -7.885520e-14, 5.608078e-08,
7.322849e-13, 1.119267e-11, -8.267505e-12, 1.984891e-18, -1.425816e-18)
BAND09_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, 8.976383e-12, -1.098117e-07, 3.607207e-12,
-3.430539e-12, 2.924135e-11, 7.076315e-16, -8.610108e-16)
BAND09_SUN_Z_NUM_COEF = (7.755487e-05, 2.686480e-07, 2.177059e-06, -1.120709e-14, 1.313324e-07,
-9.809914e-12, 5.469013e-13, -9.855236e-12, -1.309450e-18, -9.094369e-18)
BAND09_SUN_Z_DEN_COEF = (2.587641e-07, 0.000000e+00, -2.377441e-12, 5.357992e-07, 9.295021e-13,
3.881302e-12, 6.739096e-12, 1.590255e-16, 1.484028e-17)
BAND09_SCA_LIST = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
BAND09_SCA01_MEAN_HEIGHT = 3500.000
BAND09_SCA01_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA01_MEAN_L1T_LINE_SAMP = (3578.817, 914.432)
BAND09_SCA01_LINE_NUM_COEF = (-1.102743e-02, 1.019457e+00, -1.955247e-01, 4.093291e-04, -8.710718e-06)
BAND09_SCA01_LINE_DEN_COEF = (2.693029e-08, -8.019471e-06, -1.368126e-09, 2.153440e-12)
BAND09_SCA01_SAMP_NUM_COEF = (2.202130e-01, 2.261859e-01, 9.931587e-01, -4.618851e-03, 4.451528e-07)
BAND09_SCA01_SAMP_DEN_COEF = (-1.323332e-06, -8.198969e-06, -1.534774e-06, -7.606363e-12)
BAND09_SCA02_MEAN_HEIGHT = 3500.000
BAND09_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA02_MEAN_L1T_LINE_SAMP = (3033.905, 1507.540)
BAND09_SCA02_LINE_NUM_COEF = (-2.075389e-02, 1.017190e+00, -2.062864e-01, -6.035447e-04, -9.778928e-06)
BAND09_SCA02_LINE_DEN_COEF = (3.857180e-08, -8.955057e-06, 5.626015e-10, 2.193446e-12)
BAND09_SCA02_SAMP_NUM_COEF = (2.724532e-01, 2.287439e-01, 1.004129e+00, -3.929585e-03, 4.396623e-07)
BAND09_SCA02_SAMP_DEN_COEF = (-8.320148e-07, -5.982692e-06, -1.548358e-06, -6.737172e-12)
BAND09_SCA03_MEAN_HEIGHT = 3500.000
BAND09_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA03_MEAN_L1T_LINE_SAMP = (3772.150, 1806.659)
BAND09_SCA03_LINE_NUM_COEF = (-3.416123e-02, 1.017215e+00, -2.061363e-01, 4.785353e-04, -8.029604e-06)
BAND09_SCA03_LINE_DEN_COEF = (2.001490e-08, -7.387935e-06, -1.423308e-09, 2.193341e-12)
BAND09_SCA03_SAMP_NUM_COEF = (2.987821e-01, 2.287454e-01, 1.004957e+00, -3.194738e-03, 4.546815e-07)
BAND09_SCA03_SAMP_DEN_COEF = (-7.077434e-07, -5.495669e-06, -1.553183e-06, -6.594259e-12)

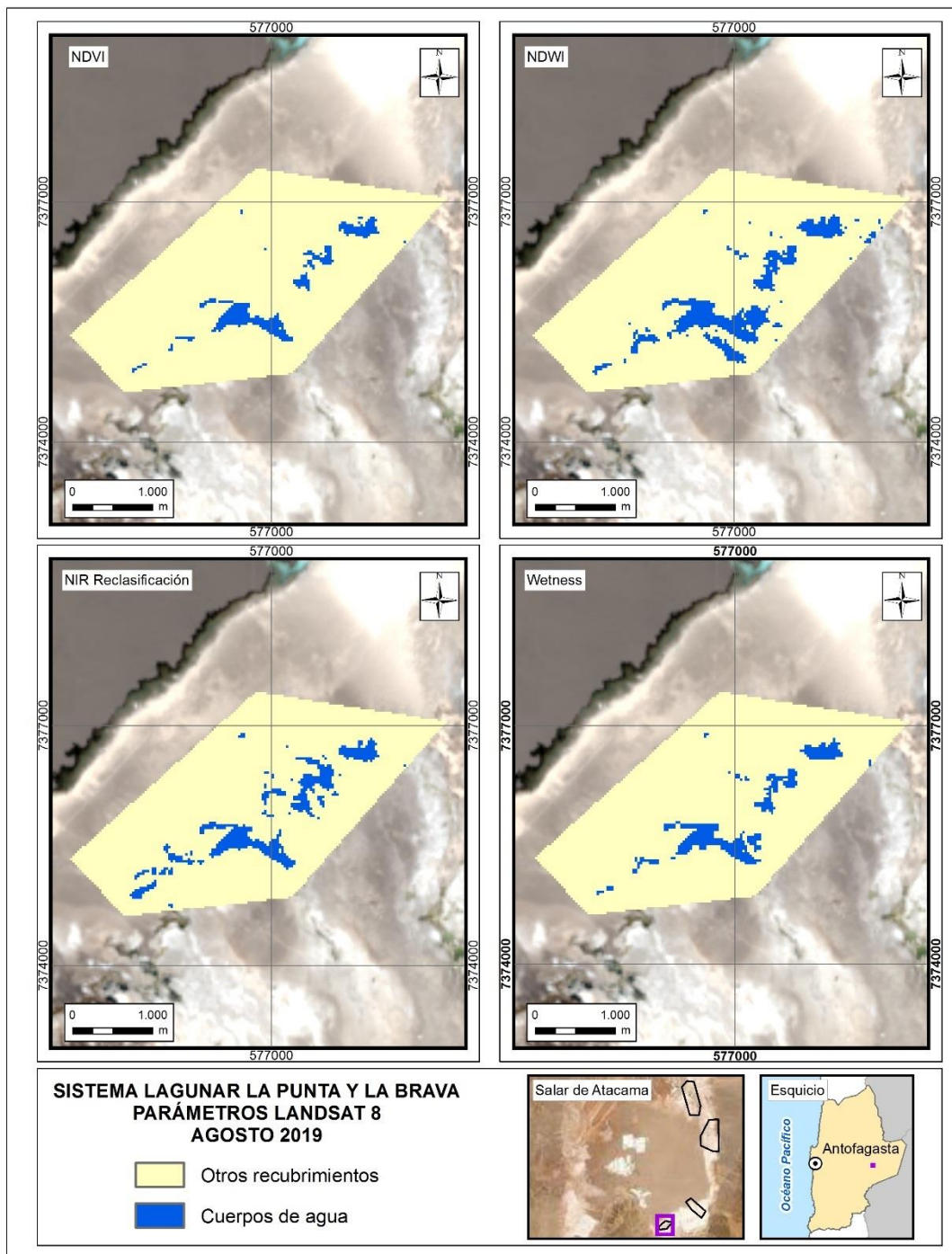
BAND09_SCA04_MEAN_HEIGHT = 3500.000
BAND09_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA04_MEAN_L1T_LINE_SAMP = (3230.074, 2394.164)
BAND09_SCA04_LINE_NUM_COEF = (-6.118444e-02, 1.015300e+00, -2.153400e-01, -5.549836e-04, -5.296403e-06)
BAND09_SCA04_LINE_DEN_COEF = (-6.114534e-09, -4.918547e-06, -3.485083e-11, 2.192989e-12)
BAND09_SCA04_SAMP_NUM_COEF = (3.295659e-01, 2.308275e-01, 1.013825e+00, -2.484229e-03, 4.482468e-07)
BAND09_SCA04_SAMP_DEN_COEF = (-3.912461e-07, -4.047332e-06, -1.560086e-06, -6.058942e-12)
BAND09_SCA05_MEAN_HEIGHT = 3500.000
BAND09_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA05_MEAN_L1T_LINE_SAMP = (3967.099, 2689.492)
BAND09_SCA05_LINE_NUM_COEF = (-2.204282e-02, 1.014951e+00, -2.168544e-01, 5.225576e-04, -1.474771e-05)
BAND09_SCA05_LINE_DEN_COEF = (8.580100e-08, -1.338932e-05, -2.198381e-09, 2.291741e-12)
BAND09_SCA05_SAMP_NUM_COEF = (3.714401e-01, 2.303728e-01, 1.012649e+00, -1.745065e-03, 4.624598e-07)
BAND09_SCA05_SAMP_DEN_COEF = (-1.141351e-07, -2.886551e-06, -1.564356e-06, -5.606232e-12)
BAND09_SCA06_MEAN_HEIGHT = 3500.000
BAND09_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA06_MEAN_L1T_LINE_SAMP = (3427.314, 3273.769)
BAND09_SCA06_LINE_NUM_COEF = (-6.657003e-02, 1.013527e+00, -2.238844e-01, -5.293511e-04, -8.172999e-06)
BAND09_SCA06_LINE_DEN_COEF = (2.092802e-08, -7.481786e-06, 2.426506e-10, 2.243782e-12)
BAND09_SCA06_SAMP_NUM_COEF = (4.047426e-01, 2.319267e-01, 1.019186e+00, -1.018483e-03, 4.549954e-07)
BAND09_SCA06_SAMP_DEN_COEF = (2.434657e-07, -1.258118e-06, -1.567890e-06, -4.974929e-12)
BAND09_SCA07_MEAN_HEIGHT = 3500.000
BAND09_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA07_MEAN_L1T_LINE_SAMP = (4164.410, 3567.003)
BAND09_SCA07_LINE_NUM_COEF = (-4.658726e-02, 1.012643e+00, -2.277708e-01, 5.414082e-04, -1.344809e-05)
BAND09_SCA07_LINE_DEN_COEF = (7.484997e-08, -1.219369e-05, -2.110204e-09, 2.329068e-12)
BAND09_SCA07_SAMP_NUM_COEF = (4.225533e-01, 2.309675e-01, 1.015791e+00, -2.803444e-04, 4.682485e-07)
BAND09_SCA07_SAMP_DEN_COEF = (3.072682e-07, -1.032581e-06, -1.568623e-06, -4.946466e-12)
BAND09_SCA08_MEAN_HEIGHT = 3500.000
BAND09_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA08_MEAN_L1T_LINE_SAMP = (3626.369, 4150.120)
BAND09_SCA08_LINE_NUM_COEF = (-9.338366e-02, 1.011685e+00, -2.327446e-01, -5.245089e-04, -6.542488e-06)
BAND09_SCA08_LINE_DEN_COEF = (2.400383e-09, -6.010840e-06, 6.255074e-11, 2.235141e-12)
BAND09_SCA08_SAMP_NUM_COEF = (4.588877e-01, 2.320031e-01, 1.020038e+00, 4.557146e-04, 4.597927e-07)
BAND09_SCA08_SAMP_DEN_COEF = (7.052786e-07, 7.733034e-07, -1.568823e-06, -4.213035e-12)
BAND09_SCA09_MEAN_HEIGHT = 3500.000
BAND09_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA09_MEAN_L1T_LINE_SAMP = (4365.105, 4442.914)
BAND09_SCA09_LINE_NUM_COEF = (-8.446503e-02, 1.010324e+00, -2.387546e-01, 5.348202e-04, -9.577708e-06)
BAND09_SCA09_LINE_DEN_COEF = (3.468563e-08, -8.712080e-06, -1.673814e-09, 2.301432e-12)
BAND09_SCA09_SAMP_NUM_COEF = (4.960113e-01, 2.305313e-01, 1.014385e+00, 1.186637e-03, 4.720137e-07)
BAND09_SCA09_SAMP_DEN_COEF = (9.536826e-07, 1.812788e-06, -1.567252e-06, -3.809357e-12)
BAND09_SCA10_MEAN_HEIGHT = 3500.000
BAND09_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA10_MEAN_L1T_LINE_SAMP = (3827.910, 5027.173)
BAND09_SCA10_LINE_NUM_COEF = (-1.154148e-01, 1.009884e+00, -2.414353e-01, -5.412857e-04, -5.894787e-06)
BAND09_SCA10_LINE_DEN_COEF = (-6.628120e-09, -5.421593e-06, 1.429416e-11, 2.227268e-12)
BAND09_SCA10_SAMP_NUM_COEF = (5.099958e-01, 2.310620e-01, 1.016401e+00, 1.926168e-03, 4.626049e-07)
BAND09_SCA10_SAMP_DEN_COEF = (1.154220e-06, 2.749620e-06, -1.564859e-06, -3.454521e-12)
BAND09_SCA11_MEAN_HEIGHT = 3500.000
BAND09_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA11_MEAN_L1T_LINE_SAMP = (4569.696, 5321.205)

BAND09_SCA11_LINE_NUM_COEF = (-1.035979e-01, 1.007984e+00, -2.498402e-01, 5.016163e-04, -9.449664e-06)
BAND09_SCA11_LINE_DEN_COEF = (3.328515e-08, -8.575601e-06, -1.593746e-09, 2.316590e-12)
BAND09_SCA11_SAMP_NUM_COEF = (5.603123e-01, 2.291012e-01, 1.008589e+00, 2.643915e-03, 4.737830e-07)
BAND09_SCA11_SAMP_DEN_COEF = (1.526911e-06, 4.338204e-06, -1.559351e-06, -2.798762e-12)
BAND09_SCA12_MEAN_HEIGHT = 3500.000
BAND09_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA12_MEAN_L1T_LINE_SAMP = (4033.230, 5908.663)
BAND09_SCA12_LINE_NUM_COEF = (-1.255741e-01, 1.008071e+00, -2.501920e-01, -5.792320e-04, -7.445249e-06)
BAND09_SCA12_LINE_DEN_COEF = (8.858930e-09, -6.788594e-06, 2.393582e-10, 2.260753e-12)
BAND09_SCA12_SAMP_NUM_COEF = (5.687337e-01, 2.291267e-01, 1.008372e+00, 3.380856e-03, 4.634458e-07)
BAND09_SCA12_SAMP_DEN_COEF = (1.682041e-06, 5.074438e-06, -1.554860e-06, -2.518438e-12)
BAND09_SCA13_MEAN_HEIGHT = 3500.000
BAND09_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA13_MEAN_L1T_LINE_SAMP = (4779.561, 6205.601)
BAND09_SCA13_LINE_NUM_COEF = (-1.065779e-01, 1.005713e+00, -2.606432e-01, 4.433893e-04, -1.203206e-05)
BAND09_SCA13_LINE_DEN_COEF = (6.372112e-08, -1.084408e-05, -1.709379e-09, 2.394191e-12)
BAND09_SCA13_SAMP_NUM_COEF = (6.559424e-01, 2.266731e-01, 9.983820e-01, 4.079283e-03, 4.735157e-07)
BAND09_SCA13_SAMP_DEN_COEF = (2.387517e-06, 8.131164e-06, -1.539770e-06, -1.159603e-12)
BAND09_SCA14_MEAN_HEIGHT = 3500.000
BAND09_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA14_MEAN_L1T_LINE_SAMP = (4243.114, 6798.495)
BAND09_SCA14_LINE_NUM_COEF = (-1.256622e-01, 1.006270e+00, -2.589184e-01, -6.387649e-04, -1.052998e-05)
BAND09_SCA14_LINE_DEN_COEF = (4.353616e-08, -9.510884e-06, 7.227800e-10, 2.342003e-12)
BAND09_SCA14_SAMP_NUM_COEF = (6.179051e-01, 2.262132e-01, 9.960199e-01, 4.807941e-03, 4.623037e-07)
BAND09_SCA14_SAMP_DEN_COEF = (2.124453e-06, 7.024824e-06, -1.540695e-06, -1.732267e-12)
END_GROUP = RPC_BAND09
GROUP = RPC_BAND10
BAND10_NUMBER_OF_SCAS = 3
BAND10_NUM_L1T_LINES = 7791
BAND10_NUM_L1T_SAMPS = 7701
BAND10_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND10_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND10_NUM_L1R_LINES = 2701
BAND10_NUM_L1R_SAMPS = 640
BAND10_PIXEL_SIZE = 30.000
BAND10_START_TIME = 7.641929
BAND10_LINE_TIME = 0.014279899
BAND10_MEAN_HEIGHT = 3500.000
BAND10_MEAN_L1R_LINE_SAMP = (1353.971, 959.024)
BAND10_MEAN_L1T_LINE_SAMP = (3562.071, 3906.546)
BAND10_MEAN_SAT_VECTOR = (-0.005474176, -0.019335267, 0.995259000)
BAND10_SAT_X_NUM_COEF = (-4.955813e-05, -3.002864e-07, -4.701300e-05, -7.494950e-09, -3.291948e-05,
1.371574e-11, 4.223219e-11, 1.220122e-11, -1.892596e-14, 1.721134e-15)
BAND10_SAT_X_DEN_COEF = (-3.141756e-06, 0.000000e+00, -1.405304e-06, 7.841030e-06, 3.784664e-11,
4.306254e-10, 9.548697e-10, 2.744164e-14, -7.309280e-17)
BAND10_SAT_Y_NUM_COEF = (1.472339e-04, 4.708515e-05, -2.994541e-07, -2.712403e-08, -1.492563e-04,
-3.245559e-13, -1.873652e-11, -7.641308e-11, -9.486218e-15, -7.266222e-16)
BAND10_SAT_Y_DEN_COEF = (4.148698e-08, -4.986805e-07, -1.408486e-06, 0.000000e+00, 5.448157e-11,
4.591075e-10, 9.645962e-10, 4.284077e-14, -1.640113e-16)
BAND10_SAT_Z_NUM_COEF = (3.525980e-03, 1.645880e-07, -1.021908e-07, -9.690020e-09, -5.907348e-07,
-5.432597e-11, -4.768733e-10, -1.048173e-09, -6.359230e-15, 4.902950e-18)
BAND10_SAT_Z_DEN_COEF = (3.497559e-07, 3.441964e-07, -2.763828e-06, 3.039021e-07, 8.043595e-11,

5.456036e-10, 1.394728e-09, -6.535991e-14, 5.233915e-15)
BAND10_MEAN_SUN_VECTOR = (0.463062496, -0.055417137, 0.884481763)
BAND10_SUN_X_NUM_COEF = (1.285623e-05, -2.487561e-08, -4.049037e-06, -5.975128e-14, -8.227876e-07,
-2.200747e-13, -9.007317e-12, -5.848617e-12, -1.730958e-16, 1.010979e-16)
BAND10_SUN_X_DEN_COEF = (2.122215e-07, 0.000000e+00, -1.286208e-11, -6.200611e-07, -1.607921e-11,
-5.040833e-12, 9.366939e-12, 1.189397e-14, -1.761490e-15)
BAND10_SUN_Y_NUM_COEF = (2.978787e-05, 4.189102e-06, 8.995444e-07, 2.481757e-13, 1.881386e-07,
5.932792e-13, 1.122732e-11, -8.205374e-12, 1.748097e-15, 5.930699e-17)
BAND10_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, -5.180728e-11, -5.163297e-07, 1.807799e-12,
-1.330578e-11, 3.733803e-11, -1.977835e-14, -1.382482e-14)
BAND10_SUN_Z_NUM_COEF = (1.049221e-04, 2.752877e-07, 2.175990e-06, -2.680158e-13, 4.428890e-07,
-9.843460e-12, 3.545564e-13, -9.880835e-12, 2.032973e-16, -3.151454e-16)
BAND10_SUN_Z_DEN_COEF = (1.766221e-07, 0.000000e+00, -3.516089e-11, 1.790462e-06, -3.833271e-13,
6.847417e-12, 5.968022e-12, 4.194429e-14, -1.765662e-15)
BAND10_SCA_LIST = (1, 2, 3)
BAND10_SCA01_MEAN_HEIGHT = 3500.000
BAND10_SCA01_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND10_SCA01_MEAN_L1T_LINE_SAMP = (3350.254, 6059.745)
BAND10_SCA01_LINE_NUM_COEF = (-1.748865e-01, 3.006185e-01, -6.738971e-02, -5.325832e-04, 1.237880e-06)
BAND10_SCA01_LINE_DEN_COEF = (-1.162439e-07, 3.559136e-06, -2.109649e-09, -3.082430e-12)
BAND10_SCA01_SAMP_NUM_COEF = (-7.256454e-01, -6.583314e-02, -2.895515e-01, -9.682259e-04, -1.277283e-07)
BAND10_SCA01_SAMP_DEN_COEF = (1.510573e-06, 4.396023e-06, -1.557569e-06, 5.349809e-12)
BAND10_SCA02_MEAN_HEIGHT = 3500.000
BAND10_SCA02_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND10_SCA02_MEAN_L1T_LINE_SAMP = (4885.635, 3603.890)
BAND10_SCA02_LINE_NUM_COEF = (2.454009e-02, 3.002063e-01, -6.834534e-02, 4.512246e-04, -8.442314e-07)
BAND10_SCA02_LINE_DEN_COEF = (-3.536758e-08, -2.720588e-06, -1.540236e-09, -3.309226e-12)
BAND10_SCA02_SAMP_NUM_COEF = (-2.008582e-01, -6.640389e-02, -2.922512e-01, -1.132623e-05, -1.372497e-07)
BAND10_SCA02_SAMP_DEN_COEF = (5.601162e-07, 4.296406e-08, -1.569017e-06, 4.505937e-13)
BAND10_SCA03_MEAN_HEIGHT = 3500.000
BAND10_SCA03_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND10_SCA03_MEAN_L1T_LINE_SAMP = (2450.324, 2056.004)
BAND10_SCA03_LINE_NUM_COEF = (-1.445533e-01, 2.999831e-01, -6.916288e-02, -5.275084e-04, 1.215764e-06)
BAND10_SCA03_LINE_DEN_COEF = (-1.007891e-07, 3.490348e-06, -2.070090e-09, -3.234222e-12)
BAND10_SCA03_SAMP_NUM_COEF = (3.568759e-01, -6.602408e-02, -2.897371e-01, 9.443237e-04, -1.222380e-07)
BAND10_SCA03_SAMP_DEN_COEF = (-4.677707e-07, -4.303796e-06, -1.557251e-06, 1.560959e-12)
END_GROUP = RPC_BAND10
GROUP = RPC_BAND11
BAND11_NUMBER_OF_SCAS = 3
BAND11_NUM_L1T_LINES = 7791
BAND11_NUM_L1T_SAMPS = 7701
BAND11_L1T_IMAGE_CORNER_LINES = (0.144063, 1419.421206, 7783.886336, 6360.837135)
BAND11_L1T_IMAGE_CORNER_SAMPS = (1453.344570, 7696.027515, 6250.404592, 4.471266)
BAND11_NUM_L1R_LINES = 2701
BAND11_NUM_L1R_SAMPS = 640
BAND11_PIXEL_SIZE = 30.000
BAND11_START_TIME = 7.641929
BAND11_LINE_TIME = 0.014279899
BAND11_MEAN_HEIGHT = 3500.000
BAND11_MEAN_L1R_LINE_SAMP = (1353.971, 959.024)
BAND11_MEAN_L1T_LINE_SAMP = (3685.209, 3878.607)
BAND11_MEAN_SAT_VECTOR = (-0.004226206, -0.013595439, 0.996026489)

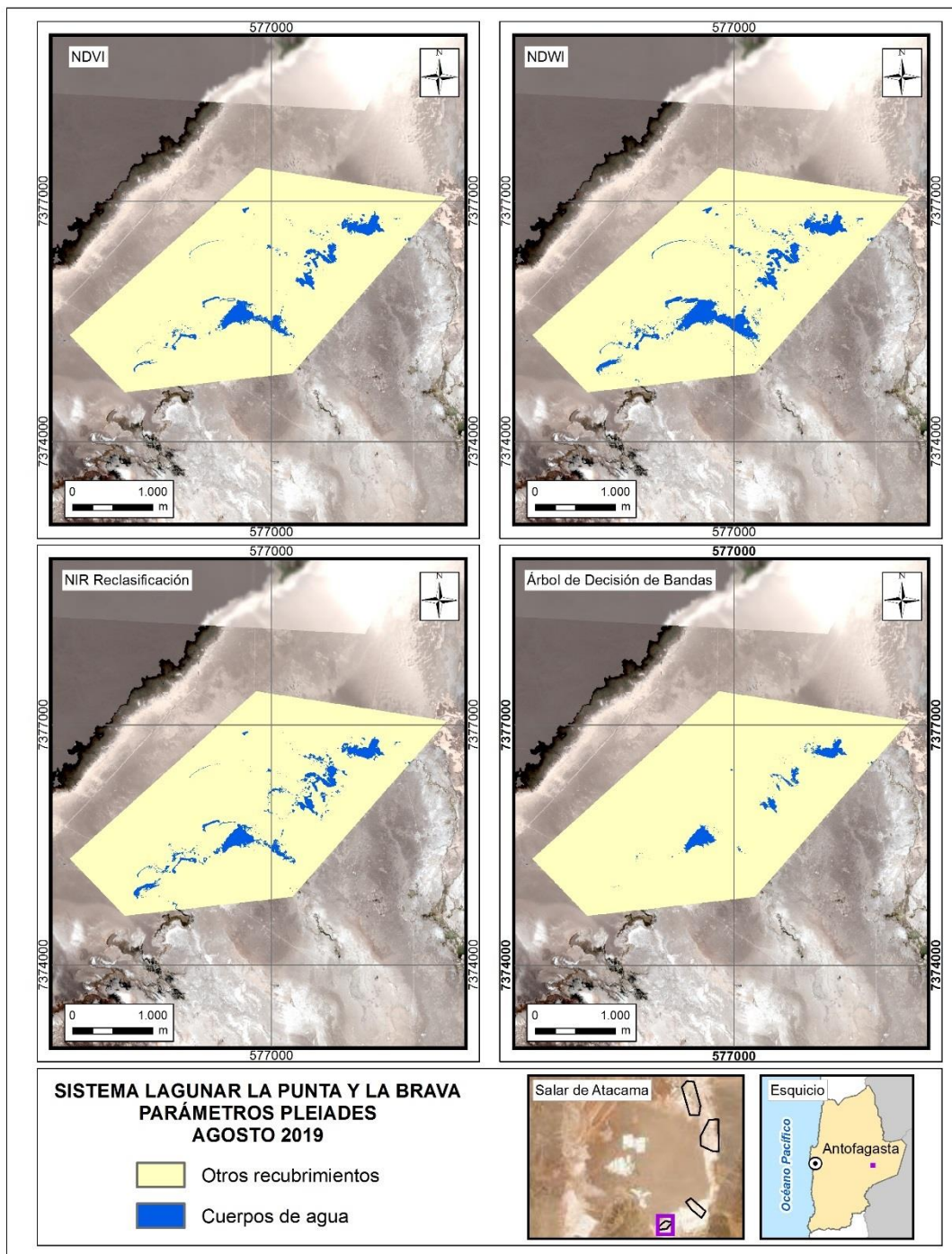
BAND11_SAT_X_NUM_COEF = (-1.319084e-05, -2.936667e-07, -4.705839e-05, -5.754311e-09, -3.296699e-05,
1.368107e-11, 4.182823e-11, 1.110934e-11, -1.760402e-14, 1.722630e-15)
BAND11_SAT_X_DEN_COEF = (-3.182483e-06, 0.000000e+00, -1.404347e-06, 7.958140e-06, 3.857673e-11,
4.299827e-10, 9.545592e-10, 2.016180e-14, -5.688804e-17)
BAND11_SAT_Y_NUM_COEF = (1.981031e-04, 4.711488e-05, -2.955524e-07, -1.909042e-08, -1.493475e-04,
-6.747359e-13, -2.136432e-11, -8.218780e-11, -8.748082e-15, -7.289803e-16)
BAND11_SAT_Y_DEN_COEF = (3.540860e-08, -5.158708e-07, -1.407512e-06, 0.000000e+00, 5.855225e-11,
4.872172e-10, 9.519005e-10, 8.019523e-14, -4.922544e-16)
BAND11_SAT_Z_NUM_COEF = (3.526144e-03, 1.961193e-07, -9.856547e-08, -9.914728e-09, -6.885914e-07,
-5.440574e-11, -4.777864e-10, -1.049595e-09, -7.168880e-15, 4.093030e-18)
BAND11_SAT_Z_DEN_COEF = (-9.864216e-07, 1.199157e-07, -2.782072e-06, 4.224712e-06, 8.651072e-11,
6.256905e-10, 1.357993e-09, 7.280500e-14, 3.110150e-15)
BAND11_MEAN_SUN_VECTOR = (0.463171661, -0.054924919, 0.884460690)
BAND11_SUN_X_NUM_COEF = (1.376409e-05, -2.470148e-08, -4.049716e-06, -1.158866e-14, -8.227010e-07,
-2.169532e-13, -8.980879e-12, -5.858309e-12, -1.728396e-16, 1.007118e-16)
BAND11_SUN_X_DEN_COEF = (2.018929e-07, 0.000000e+00, -1.222050e-11, -6.192409e-07, -1.607709e-11,
-5.000011e-12, 9.391431e-12, 7.650155e-15, -1.115711e-15)
BAND11_SUN_Y_NUM_COEF = (2.824017e-05, 4.188952e-06, 9.015765e-07, 7.120441e-14, 1.884528e-07,
5.726935e-13, 1.118456e-11, -8.208882e-12, 1.385990e-15, 2.980660e-17)
BAND11_SUN_Y_DEN_COEF = (0.000000e+00, 0.000000e+00, -4.084277e-11, -5.325791e-07, 2.073976e-12,
-1.151458e-11, 3.579786e-11, -6.341006e-15, -5.607241e-15)
BAND11_SUN_Z_NUM_COEF = (9.892040e-05, 2.728431e-07, 2.176547e-06, -1.251389e-13, 4.429835e-07,
-9.820840e-12, 5.028015e-13, -9.873937e-12, 1.998938e-16, -3.375975e-16)
BAND11_SUN_Z_DEN_COEF = (2.436699e-07, 0.000000e+00, -3.016158e-11, 1.792406e-06, -3.728621e-13,
6.079544e-12, 6.127909e-12, 3.639651e-14, -9.080824e-16)
BAND11_SCA_LIST = (1, 2, 3)
BAND11_SCA01_MEAN_HEIGHT = 3500.000
BAND11_SCA01_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND11_SCA01_MEAN_L1T_LINE_SAMP = (3760.345, 5965.725)
BAND11_SCA01_LINE_NUM_COEF = (-1.390394e-01, 3.005274e-01, -6.772597e-02, -3.301441e-04, 8.282503e-07)
BAND11_SCA01_LINE_DEN_COEF = (-1.021929e-07, 2.323080e-06, -1.241656e-09, -3.097489e-12)
BAND11_SCA01_SAMP_NUM_COEF = (-7.158537e-01, -6.584889e-02, -2.897242e-01, -9.684272e-04, -1.300799e-07)
BAND11_SCA01_SAMP_DEN_COEF = (1.494711e-06, 4.292894e-06, -1.557708e-06, 5.311284e-12)
BAND11_SCA02_MEAN_HEIGHT = 3500.000
BAND11_SCA02_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND11_SCA02_MEAN_L1T_LINE_SAMP = (4460.084, 3700.653)
BAND11_SCA02_LINE_NUM_COEF = (-3.231712e-03, 3.002254e-01, -6.833637e-02, 2.403574e-04, -5.319497e-07)
BAND11_SCA02_LINE_DEN_COEF = (-4.635343e-08, -1.777941e-06, -9.477578e-10, -3.282254e-12)
BAND11_SCA02_SAMP_NUM_COEF = (-1.925968e-01, -6.644730e-02, -2.923318e-01, -1.137304e-05, -1.348959e-07)
BAND11_SCA02_SAMP_DEN_COEF = (5.426113e-07, 2.305697e-09, -1.569017e-06, 2.003242e-13)
BAND11_SCA03_MEAN_HEIGHT = 3500.000
BAND11_SCA03_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND11_SCA03_MEAN_L1T_LINE_SAMP = (2835.199, 1969.442)
BAND11_SCA03_LINE_NUM_COEF = (-9.715616e-02, 3.000473e-01, -6.881119e-02, -3.380073e-04, 6.969054e-07)
BAND11_SCA03_LINE_DEN_COEF = (-8.191392e-08, 1.927832e-06, -1.154592e-09, -3.287831e-12)
BAND11_SCA03_SAMP_NUM_COEF = (3.388529e-01, -6.604107e-02, -2.899048e-01, 9.442326e-04, -1.244530e-07)
BAND11_SCA03_SAMP_DEN_COEF = (-4.330217e-07, -4.185365e-06, -1.557449e-06, 1.065647e-12)
END_GROUP = RPC_BAND11
END

1.7 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes LANDSAT 8, invierno 2019.



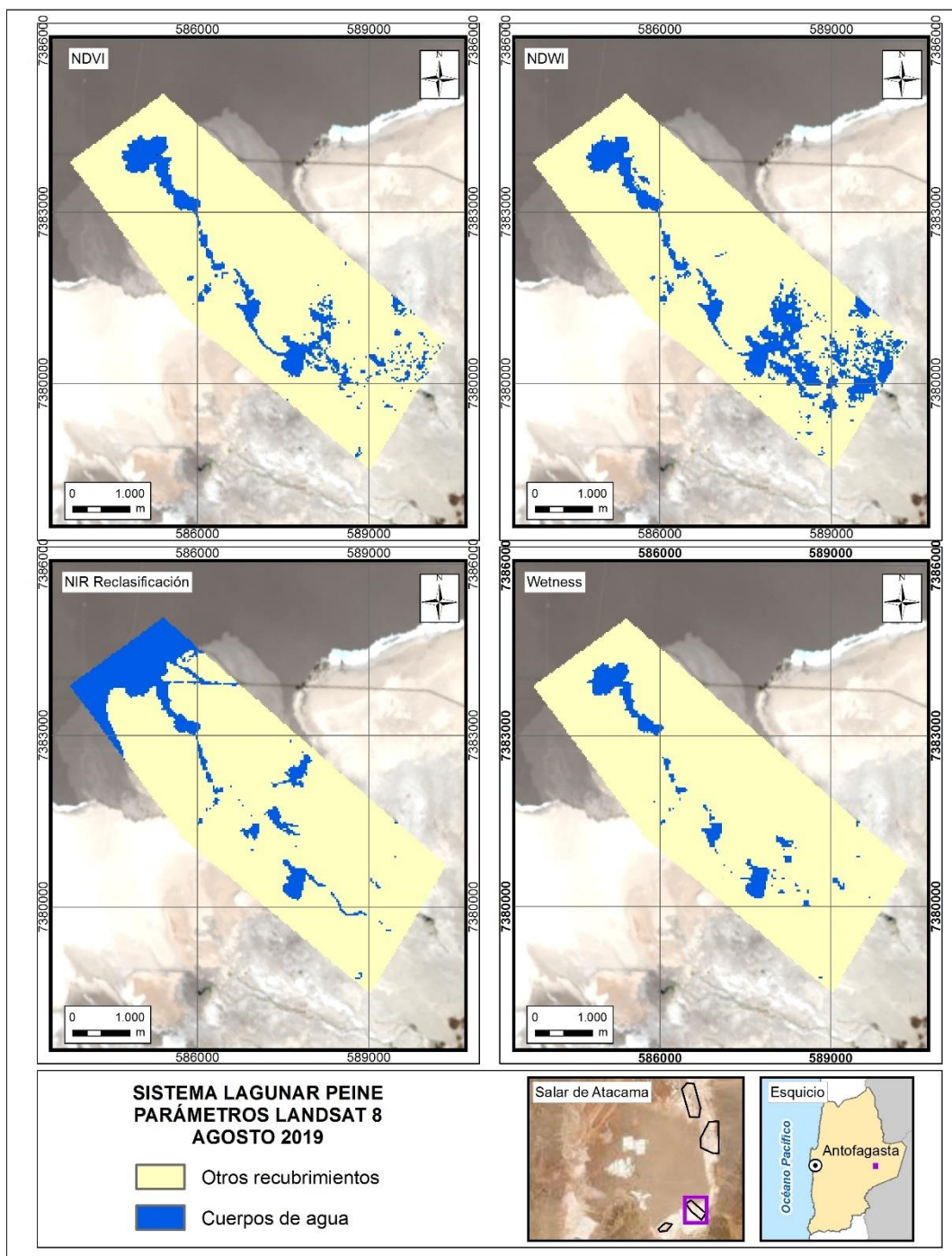
Fuente: Elaboración propia

1.8 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes PLEIADES 1A, invierno 2019.



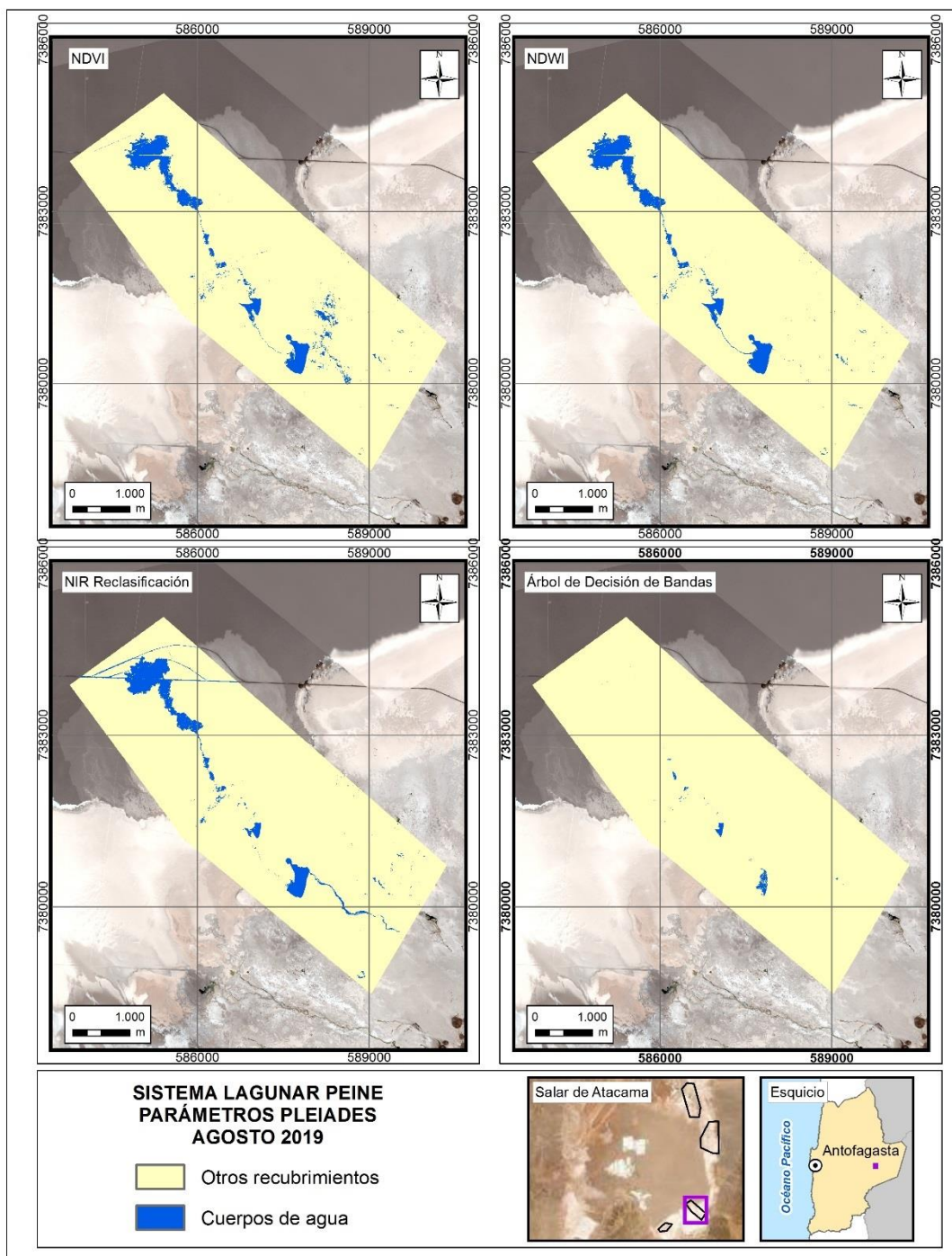
Fuente: Elaboración propia

1.9 Parámetros espectrales para el sistema lagunar Peine, imágenes LANDSAT 8, invierno 2019.



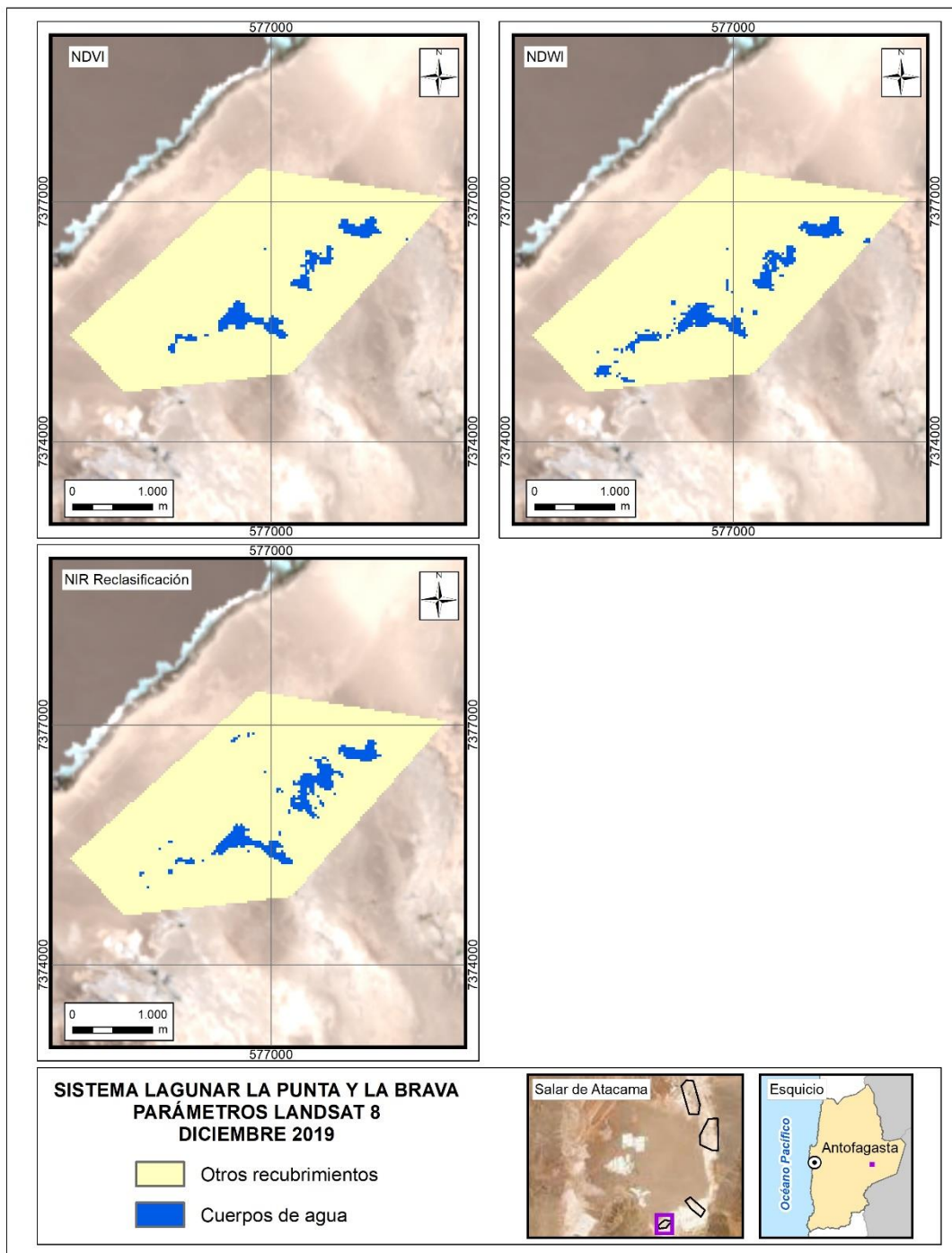
Fuente: Elaboración propia

1.10 Parámetros espectrales para el sistema lagunar Peine, imágenes PLEIADES 1A, invierno 2019.



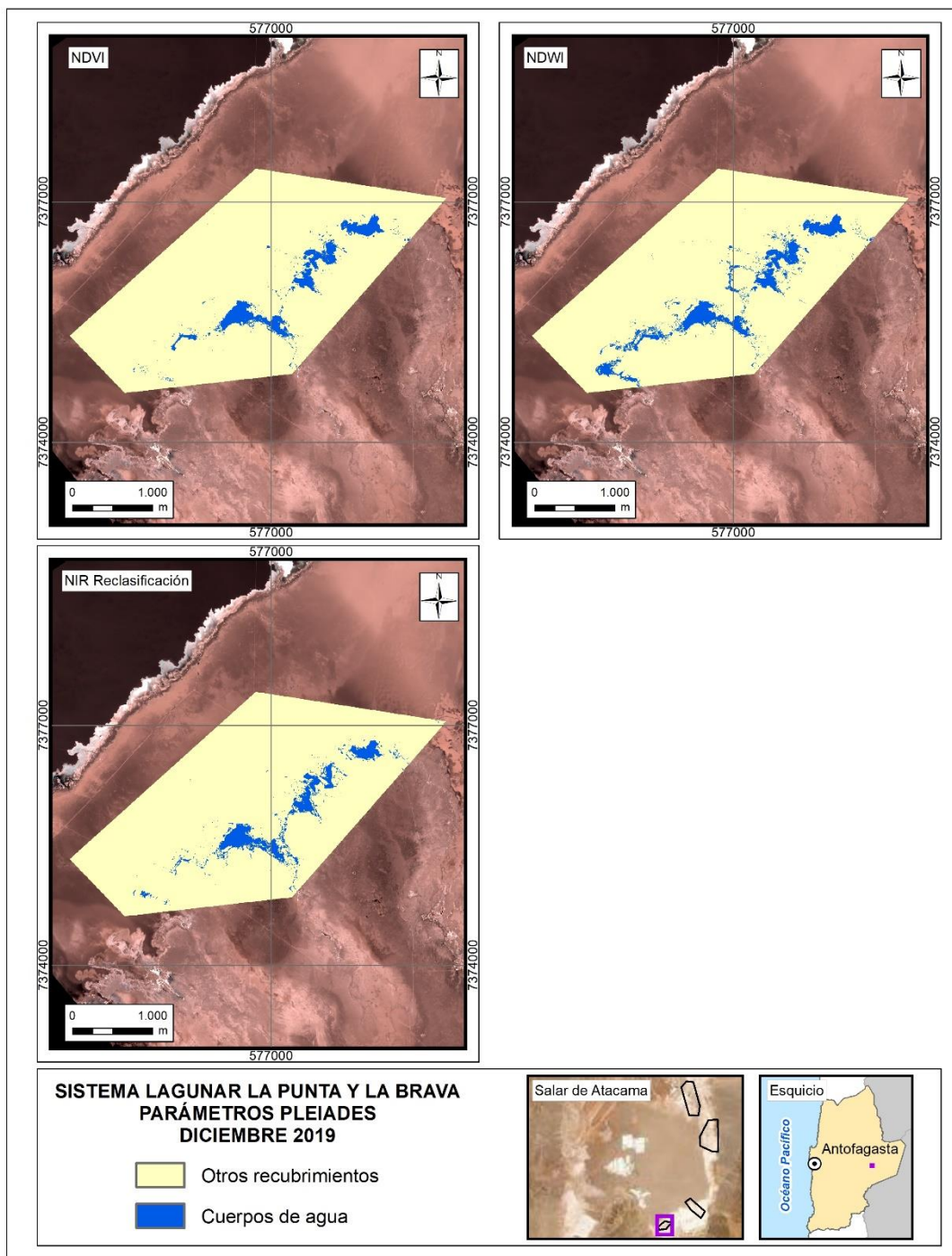
Fuente: Elaboración propia

1.11 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes LANDSAT 8, verano 2019.



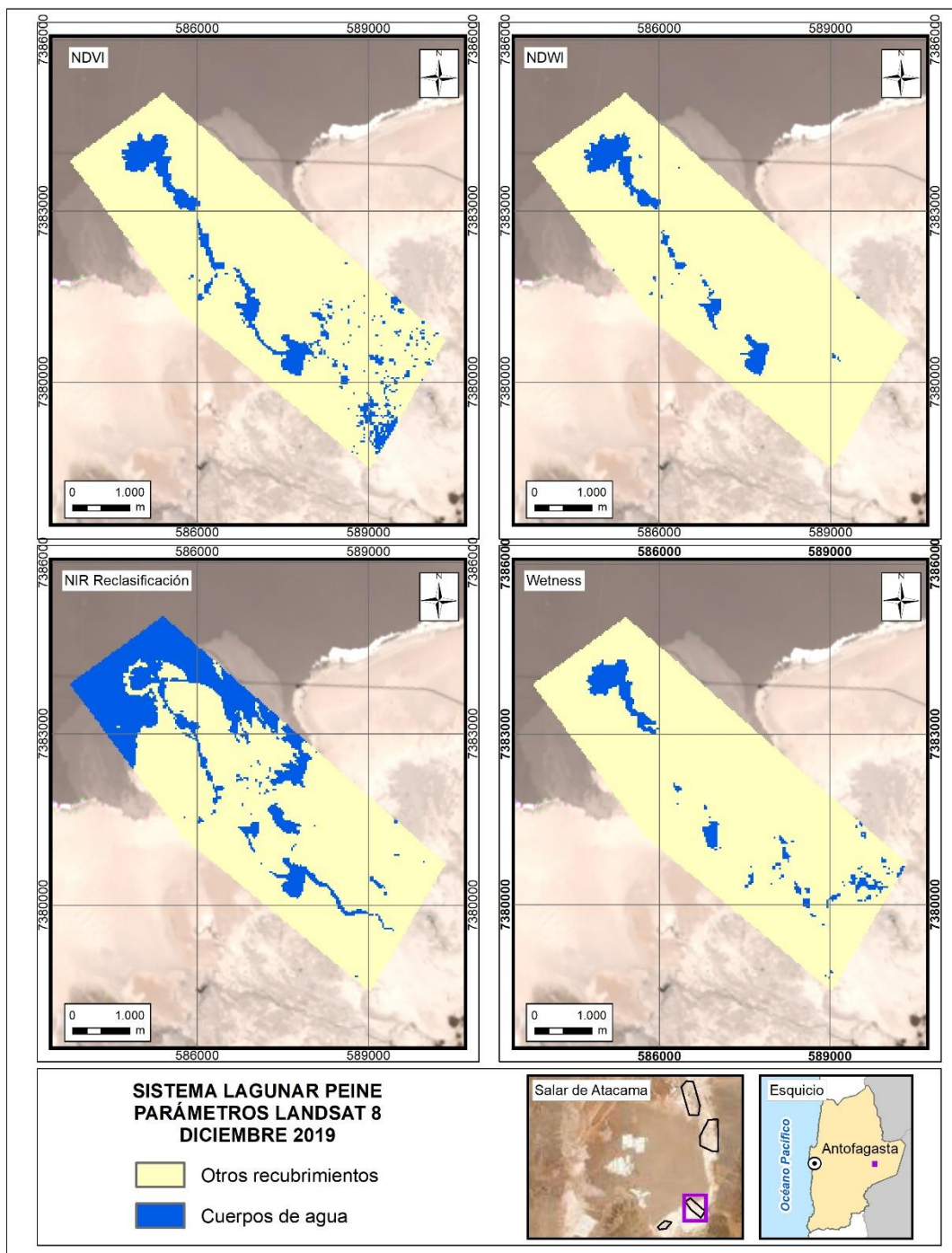
Fuente: Elaboración propia

1.12 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes PLEIADES 1A, verano 2019.



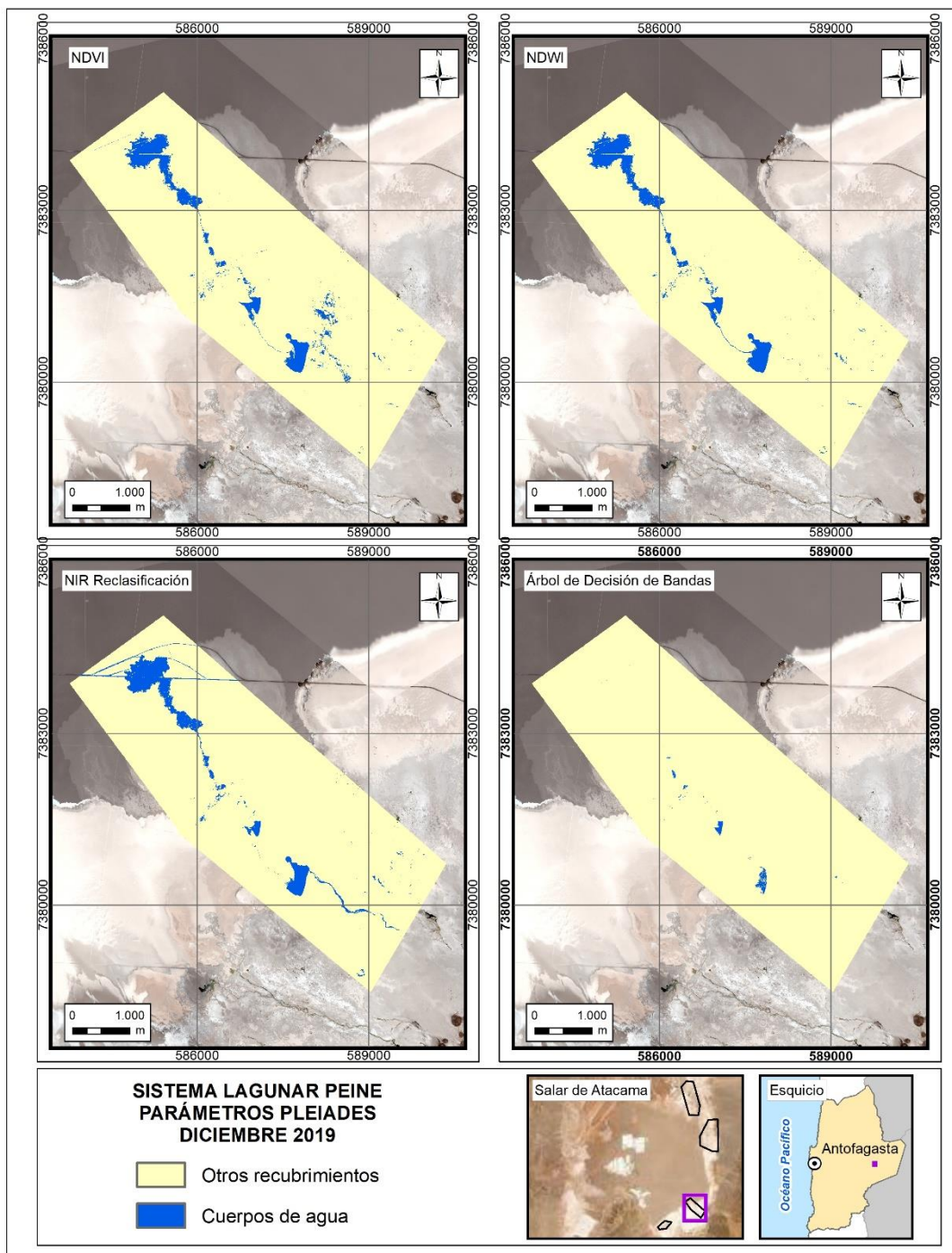
Fuente: Elaboración propia

1.13 Parámetros espectrales para el sistema lagunar Peine, imágenes LANDSAT 8, verano 2019.



Fuente: Elaboración propia

1.14 Parámetros espectrales para el sistema lagunar Peine, imágenes PLEIADES 1A, verano 2019.



Fuente: Elaboración propia