



INFORME ANUAL N°5

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

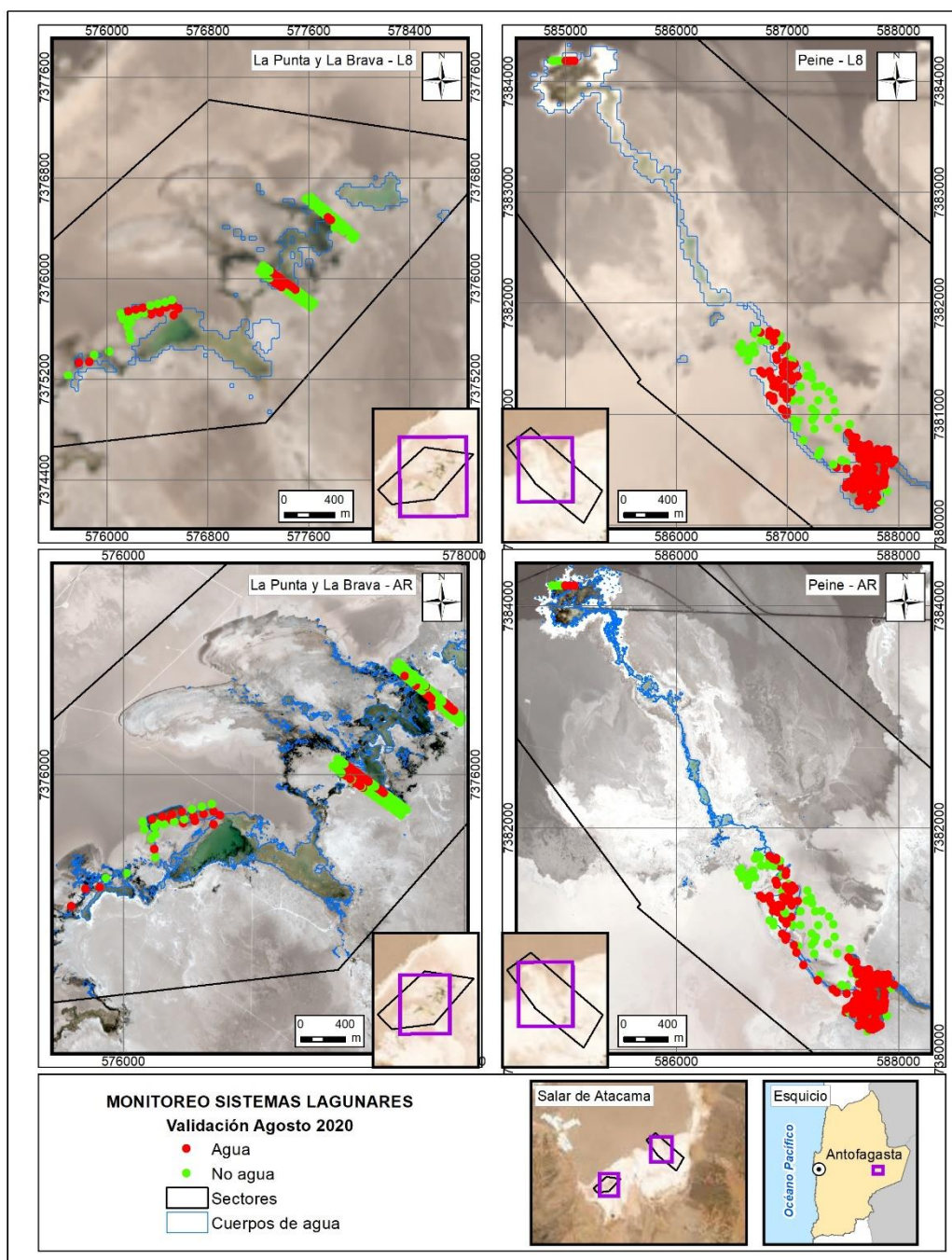
Agosto de 2021

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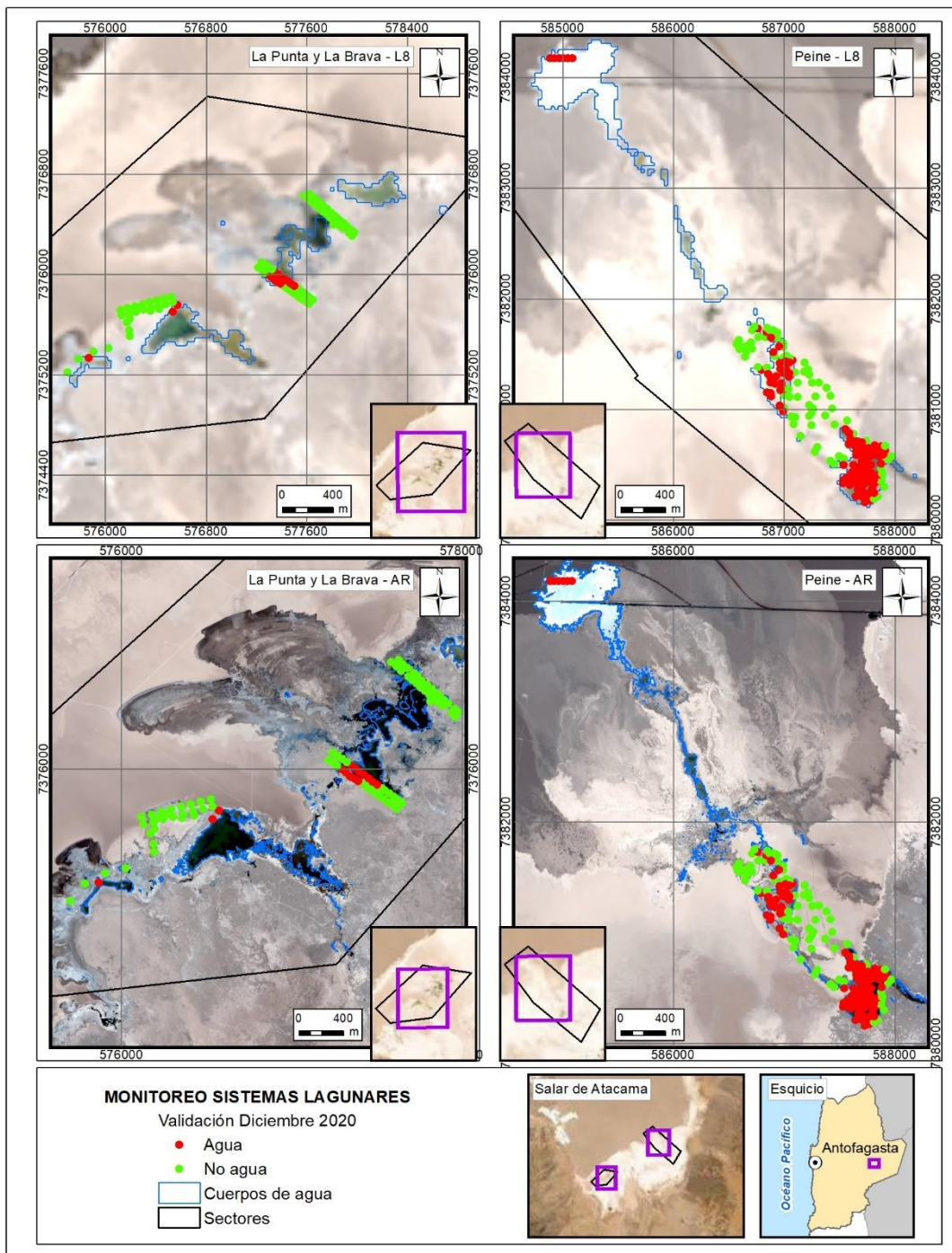
1 ANEXO ÁREA DE LAGUNAS

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 2020.



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 2020.



Fuente: Elaboración propia

1.3 Coordenadas de puntos de validación en terreno

1.3.1 Invierno 2020

1.3.1.1 Alta resolución (Pleiades 1A)

1.3.1.1.1 Sector La Punta y La Brava

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	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	A	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	A	NA
PB-027	577.533	7.375.838	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PB-028	577.611	7.375.838	NA	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	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	A	NA
PB-037	577.500	7.375.861	NA	NA
PB-038	577.578	7.375.862	A	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	NA
PB-043	577.481	7.375.875	NA	NA
PB-044	577.559	7.375.876	A	NA
PB-045	577.474	7.375.879	NA	NA
PB-046	577.552	7.375.881	A	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PB-064	577.494	7.375.923	A	A
PB-065	577.410	7.375.925	A	A
PB-066	577.488	7.375.928	NA	NA
PB-067	577.402	7.375.930	A	NA
PB-068	577.481	7.375.933	NA	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	A	A
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	NA	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	A
PB-091	577.410	7.375.985	A	A
PB-092	577.323	7.375.986	A	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	A	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	NA
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	A	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	A
PB-126	577.301	7.376.065	NA	NA
PB-127	577.294	7.376.070	A	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
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	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	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	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
PB-179	577.832	7.376.427	A	NA
PB-180	577.883	7.376.430	A	NA
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	NA
PB-185	577.871	7.376.439	NA	NA
PB-186	577.818	7.376.442	A	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PB-208	577.757	7.376.494	A	NA
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	A	NA
PB-215	577.786	7.376.515	A	NA
PB-216	577.780	7.376.519	A	A
PB-217	577.727	7.376.520	A	NA
PB-218	577.774	7.376.524	A	NA
PB-219	577.721	7.376.525	A	A
PB-220	577.768	7.376.529	NA	NA
PB-221	577.714	7.376.530	NA	NA
PB-222	577.762	7.376.534	A	NA
PB-223	577.707	7.376.535	NA	NA
PB-224	577.756	7.376.540	A	NA
PB-225	577.702	7.376.540	NA	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	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	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	A	NA
PB-237	577.669	7.376.567	A	A
PB-238	577.663	7.376.570	NA	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
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	A	NA
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	NA	NA
PB-VC-008	576.022	7.375.421	NA	NA
PB-VC-009	576.190	7.375.516	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PB-VC-010	576.184	7.375.563	A	A
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	A	A
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	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	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	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	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	A	A
PE-004	587.817	7.380.200	A	A
PE-005	587.651	7.380.217	A	A
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
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	A
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	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	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
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	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	NA	NA
PE-119	586.877	7.381.154	A	NA
PE-120	586.848	7.381.163	NA	NA
PE-121	587.014	7.381.167	NA	NA
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	NA	NA
PE-127	586.980	7.381.209	A	A
PE-128	586.988	7.381.232	NA	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PE-143	587.099	7.381.340	A	A
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	A	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	A	A
PE-162	586.662	7.381.528	NA	NA
PE-163	586.595	7.381.553	NA	NA
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	NA	NA
PE-177	586.939	7.381.704	NA	NA
PE-178	586.842	7.381.708	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PE-179	586.907	7.381.713	A	A
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	NA	NA
PE-VC-002	584.926	7.384.185	NA	NA
PE-VC-003	584.966	7.384.185	NA	NA
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_M9	MOD_M9
	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	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	A	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	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	NA	NA
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
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	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PB-051	577.733	7.376.507	NA	NA
PB-052	577.761	7.376.527	A	NA
PB-053	577.708	7.376.528	NA	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	NA	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	NA
PB-VC-002	575.517	7.374.971	NA	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	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	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	NA	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	NA	NA
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	NA	A
PB-VC-024	576.273	7.375.741	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	NA
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	NA

1.3.1.2.2 Sector Peine

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
PE-001	587.730	7.380.165	NA	A
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	A	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
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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
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	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	NA
PE-054	587.941	7.380.552	NA	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	A
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	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	NA	A
PE-089	587.150	7.380.764	A	NA
PE-090	587.628	7.380.786	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	A
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	A
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	NA	NA
PE-115	586.877	7.381.154	A	A
PE-116	586.848	7.381.163	NA	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	NA	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	A
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	A	A
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	NA
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	A	A
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
PE-158	586.958	7.381.575	NA	A
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	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M9	MOD_M9
	Este	Norte		
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	A
PE-167	586.768	7.381.659	NA	NA
PE-168	586.829	7.381.661	NA	NA
PE-169	586.939	7.381.704	NA	NA
PE-170	586.842	7.381.708	NA	A
PE-171	586.714	7.381.722	NA	NA
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	NA	A
PE-175	586.848	7.381.745	A	A
PE-176	586.734	7.381.756	NA	NA
PE-VC-001	584.886	7.384.185	NA	NA
PE-VC-002	584.926	7.384.185	NA	NA
PE-VC-003	584.966	7.384.185	NA	NA
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 2020

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_M10	MOD_M10
	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	A	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	NA	NA
PB-029	577.526	7.375.842	NA	NA
PB-030	577.604	7.375.843	NA	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	NA	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	NA	NA
PB-041	577.487	7.375.870	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PB-042	577.565	7.375.871	A	NA
PB-043	577.481	7.375.875	NA	NA
PB-044	577.559	7.375.876	A	NA
PB-045	577.474	7.375.879	NA	NA
PB-046	577.552	7.375.881	A	NA
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	A
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
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	A	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	NA
PB-082	577.355	7.375.962	NA	NA
PB-083	577.348	7.375.966	NA	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	NA	NA
PB-087	577.423	7.375.975	A	A
PB-088	577.337	7.375.977	NA	NA
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	NA
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	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	A
PB-104	577.283	7.376.011	A	NA
PB-105	577.372	7.376.013	A	A
PB-106	577.279	7.376.018	NA	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	NA
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	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
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	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	NA
PB-168	577.861	7.376.402	NA	NA
PB-169	577.913	7.376.404	A	NA
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	NA
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	NA
PB-179	577.832	7.376.427	NA	NA
PB-180	577.883	7.376.430	A	NA
PB-181	577.874	7.376.431	A	NA
PB-182	577.830	7.376.431	NA	NA
PB-183	577.877	7.376.435	NA	NA
PB-184	577.824	7.376.437	A	NA
PB-185	577.871	7.376.439	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PB-186	577.818	7.376.442	A	NA
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	NA
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	NA
PB-209	577.751	7.376.499	NA	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
PB-216	577.780	7.376.519	A	NA
PB-217	577.727	7.376.520	NA	NA
PB-218	577.774	7.376.524	A	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	NA	NA
PB-226	577.749	7.376.545	NA	NA
PB-227	577.697	7.376.545	A	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	A	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	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
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	A	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	NA
PB-VC-005	575.782	7.375.331	A	NA
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
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	NA	NA
PB-VC-023	576.359	7.375.739	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PB-VC-024	576.273	7.375.741	NA	NA
PB-VC-025	576.232	7.375.754	NA	NA
PB-VC-026	576.418	7.375.754	NA	NA
PB-VC-027	576.571	7.375.761	A	NA
PB-VC-028	576.290	7.375.769	NA	NA
PB-VC-029	576.476	7.375.770	NA	NA
PB-VC-030	576.348	7.375.784	NA	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	A	NA

1.3.2.1.2 Sector Peine

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-001	587.730	7.380.165	A	NA
PE-002	587.778	7.380.181	A	A
PE-003	587.747	7.380.183	A	A
PE-004	587.817	7.380.200	A	A
PE-005	587.651	7.380.217	A	A
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
PE-016	587.809	7.380.329	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	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	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-053	587.880	7.380.517	A	A
PE-054	587.452	7.380.517	A	NA
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	A	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	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	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	NA
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	A
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	NA	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-125	587.041	7.381.194	A	A
PE-126	587.382	7.381.200	NA	NA
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	A	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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-161	586.903	7.381.524	A	A
PE-162	586.662	7.381.528	NA	NA
PE-163	586.595	7.381.553	NA	NA
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	A	NA
PE-167	586.668	7.381.581	NA	NA
PE-168	586.604	7.381.584	A	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	A	NA
PE-176	586.829	7.381.661	NA	NA
PE-177	586.939	7.381.704	A	NA
PE-178	586.842	7.381.708	NA	NA
PE-179	586.907	7.381.713	A	A
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	NA	A
PE-VC-002	584.926	7.384.185	NA	A
PE-VC-003	584.966	7.384.185	NA	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_M10	MOD_M10
	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	A	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	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	NA	A
PB-022	577.424	7.375.969	A	A
PB-023	577.319	7.375.985	NA	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	NA
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_M10	MOD_M10
	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	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	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	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	NA	NA
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	A	NA
PB-056	577.717	7.376.570	NA	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	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	NA
PB-VC-005	575.782	7.375.331	A	NA
PB-VC-006	575.864	7.375.339	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	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	A
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
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	NA	NA
PB-VC-023	576.359	7.375.739	NA	NA
PB-VC-024	576.273	7.375.741	NA	NA
PB-VC-025	576.232	7.375.754	NA	NA
PB-VC-026	576.418	7.375.754	NA	NA
PB-VC-027	576.571	7.375.761	A	A
PB-VC-028	576.290	7.375.769	NA	NA
PB-VC-029	576.476	7.375.770	NA	NA
PB-VC-030	576.348	7.375.784	NA	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	A	NA

1.3.2.2.2 Sector Peine

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-001	587.730	7.380.165	A	A
PE-002	587.778	7.380.181	A	A
PE-003	587.817	7.380.200	A	NA
PE-004	587.651	7.380.216	A	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
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	NA
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	NA
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

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
PE-035	587.638	7.380.419	A	A
PE-036	587.887	7.380.429	A	NA
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	NA
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
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	NA	NA
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	A
PE-069	587.748	7.380.629	A	A
PE-070	587.688	7.380.630	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	NA	NA
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	NA
PE-083	587.588	7.380.690	NA	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	NA	NA
PE-088	587.601	7.380.738	NA	A
PE-089	587.150	7.380.764	A	NA
PE-090	587.628	7.380.786	A	NA
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	NA	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	NA	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	NA	NA
PE-106	586.960	7.381.042	A	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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	A
PE-112	587.419	7.381.129	NA	NA
PE-113	587.001	7.381.136	NA	NA
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PE-115	586.877	7.381.154	A	A
PE-116	586.848	7.381.163	NA	A
PE-117	586.966	7.381.179	NA	A
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PE-136	587.179	7.381.345	NA	NA
PE-137	586.793	7.381.363	A	A
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PE-141	586.845	7.381.382	NA	NA
PE-142	586.763	7.381.389	NA	NA

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
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PE-149	587.050	7.381.475	NA	NA
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PE-151	586.913	7.381.488	A	NA
PE-152	587.018	7.381.491	NA	NA
PE-153	586.903	7.381.524	A	A
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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
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PE-165	586.936	7.381.654	NA	NA
PE-166	586.884	7.381.657	A	A
PE-167	586.768	7.381.659	NA	NA
PE-168	586.829	7.381.661	NA	NA
PE-169	586.939	7.381.704	NA	NA
PE-170	586.842	7.381.708	A	A
PE-171	586.714	7.381.722	NA	NA
PE-172	586.873	7.381.722	NA	NA
PE-173	586.905	7.381.725	NA	NA
PE-174	586.763	7.381.736	NA	A
PE-175	586.848	7.381.745	NA	NA
PE-176	586.734	7.381.756	NA	NA
PE-VC-001	584.886	7.384.185	NA	A
PE-VC-002	584.926	7.384.185	NA	A

PUNTOS DE MONITOREO	COORDENADAS DATUM WGS 84, HUSO 19 S		VALID_M10	MOD_M10
	Este	Norte		
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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

1.4 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	<p>Cambio efectuado con el fin poder cubrir grandes superficies rápidamente, con poco tiempo de confirmación previa, y con un solo sensor que permite mayor homogeneidad de los datos. Asimismo, mejor coherencia de los datos entre sí (por menor rango temporal en completar la cobertura de cada polígono); en un mayor ancho de franja que permite menor cantidades de escenas a unir y un mayor grado de coregistro de las imágenes (importante para la detección de cambios en estudios multitemporales).</p> <p>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.</p>
2. Validación en terreno	No especificado	Índice <i>Kappa</i> en base a diseño de muestreo estadístico aleatorio – estratificado, por sistema lagunar.	<p>Contribuye a realizar una evaluación numérica, objetiva y con presencia de un indicador, de la certidumbre en el modelo y, por ende, conocer la bondad de ajuste en las coberturas obtenidas.</p> <p>La validación en terreno en categorías "agua", "no agua" permite una evaluación binaria que da certidumbre al modelo.</p>
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)	<p>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.</p> <p>La corrección utilizada (con mejor efecto de remoción del error atmosférico), conllevó a</p>

MATERIALES Y MÉTODOS CON MODIFICACIÓN	LÍNEA DE BASE (Adenda 5 RWL, 2015)	MONITOREO FASE DE OPERACIÓN (CEDREM Consultores)	DESCRIPCIÓN DE MODIFICACIÓN APLICADA
			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, • Transformada <i>Tasseled Cap</i> "Wetness" (en Landsat 8) 	<p>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 durante interpretaciones espectrales.</p> <p>En el modelo de clasificación, la incorporación de más parámetros espectrales, condujo principalmente a una mayor sensibilidad en la detección de cuerpos de agua.</p>
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 píxeles 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 píxeles que tuvieran una alta probabilidad de pertenecer a este tipo de recubrimiento.
7. Fechas de medición	Durante invierno altiplánico: enero- abril.	Durante invierno y verano ~ agosto y diciembre del 2016 al 2020.	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 2020

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- DIM_PHR1B_MS_202008181448423_ORT_5261842101-2

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1.5.2 Verano 2020

1.5.2.1 Metadata de Imágenes Sector Sur del Salar de Atacama

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1.5.2.2 Metadata de Imágenes Sector Norte del Salar de Atacama

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      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
      <COMPONENT_PATH href="MASKS/SNW_PHR1A_MS_202012251455589_ORT_5529562101-2_MSK.GML"/>
    </Component>
  </Quality_Mask>
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  <MEASURE_NAME>Cloud_Cotation (CLD)</MEASURE_NAME>
  <MEASURE_TYPE>AUTOMATIC</MEASURE_TYPE>
  <Quality_Mask>
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      <COMPONENT_TITLE>Cloud_Cotation Mask</COMPONENT_TITLE>
      <COMPONENT_CONTENT>GML MASK</COMPONENT_CONTENT>
      <COMPONENT_TYPE>ENCAPSULATED</COMPONENT_TYPE>
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    </Component>
  </Quality_Mask>
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  <QUALITY_TABLES>PHR</QUALITY_TABLES>
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</Quality_Assessment>
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  <MISSION>PHR</MISSION>
  <MISSION_INDEX>1A</MISSION_INDEX>
  <INSTRUMENT>PHR</INSTRUMENT>
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  <IMAGING_DATE>2020-12-25</IMAGING_DATE>
  <IMAGING_TIME>14:55:58.9Z</IMAGING_TIME>
  <BAND_MODE>PX</BAND_MODE>
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  <COMPONENT_CONTENT>Lineage Information</COMPONENT_CONTENT>
  <COMPONENT_TYPE>DIMAP</COMPONENT_TYPE>
  <COMPONENT_PATH
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  </Component>
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    <COMPONENT_CONTENT>Lineage Information</COMPONENT_CONTENT>
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1.6 Metadata de Imágenes de media resolución – Landsat 8

1.6.1 Invierno 2020

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GROUP = FILE_HEADER
LANDSAT_SCENE_ID = "LC82330762020234LGN00"
SPACECRAFT_ID = "LANDSAT_8"

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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 = ( 473700.000, -2439600.000)
UR_CORNER = ( 705000.000, -2439600.000)
LL_CORNER = ( 473700.000, -2673600.000)
LR_CORNER = ( 705000.000, -2673600.000)
END_GROUP = PROJECTION
GROUP = EPHEMERIS
EPHEMERIS_EPOCH_YEAR = 2020
EPHEMERIS_EPOCH_DAY = 234
EPHEMERIS_EPOCH_SECONDS = 52230.716069
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,
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    50.000000, 51.000000, 52.000000, 53.000000, 54.000000)
EPHEMERIS_ECEF_X = ( 2497059.850453, 2494526.672892, 2491990.869249, 2489452.673684, 2486911.876158,
    2484368.595173, 2481822.680727, 2479274.490612, 2476723.666839, 2474170.513483,
    2471614.896696, 2469056.704008, 2466496.200386, 2463933.101737, 2461367.707335,
    2458799.743671, 2456229.157320, 2453656.214052, 2451080.918228, 2448503.334870,
    2445923.216844, 2443340.614026, 2440755.577785, 2438168.252454, 2435578.427610,
    2432986.110941, 2430391.350578, 2427794.211239, 2425194.759237, 2422592.895756,
    2419988.590305, 2417381.866755, 2414772.830856, 2412161.297407, 2409547.424702,
    2406931.153321, 2404312.485693, 2401691.487170, 2399068.316055, 2396442.753128,
    2393814.609252, 2391184.049510, 2388551.295919, 2385916.288011, 2383278.866385,
    2380638.868451, 2377996.811865, 2375352.400788, 2372705.624949, 2370056.509739,
    2367405.037039, 2364751.313856, 2362095.173370, 2359436.840649, 2356776.117067)
EPHEMERIS_ECEF_Y = (-6106986.184618, -6105102.930838, -6103212.544175, -6101315.090906, -6099410.385090,
    -6097498.670618, -6095579.486060, -6093653.332209, -6091719.845819, -6089779.312033,
    -6087831.595209, -6085876.475417, -6083914.459925, -6081945.179542, -6079968.978952,
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    -6067960.386293, -6065933.877985, -6063900.286699, -6061859.806850, -6059812.017810,
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EPHEMERIS_ECEF_Z = (-2585754.769602, -2592654.641580, -2599551.574551, -2606445.653549, -2613336.750225,
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-2927028.901138, -2933773.652079, -2940515.090840, -2947253.369245, -2953988.177057)
END_GROUP = EPHEMERIS
GROUP = SOLAR_VECTOR
SOLAR_EPOCH_YEAR = 2020
SOLAR_EPOCH_DAY = 234
SOLAR_EPOCH_SECONDS = 52230.716069
EARTH_SUN_DISTANCE = 1.01155580
NUMBER_OF_POINTS = 55
SAMPLE_TIME = ( 0.000000, 1.000000, 2.000000, 3.000000, 4.000000,
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SOLAR_ECEF_X = ( 7.82941352e-01, 7.82898638e-01, 7.82855921e-01, 7.82813199e-01, 7.82770474e-01,
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7.82514033e-01, 7.82471278e-01, 7.82428520e-01, 7.82385757e-01, 7.82342990e-01,
7.82300218e-01, 7.82257443e-01, 7.82214663e-01, 7.82171880e-01, 7.82129092e-01,
7.82086301e-01, 7.82043505e-01, 7.82000705e-01, 7.81957899e-01, 7.81915091e-01,
7.81872279e-01, 7.81829462e-01, 7.81786642e-01, 7.81743817e-01, 7.81700988e-01,
7.81658153e-01, 7.81615316e-01, 7.81572475e-01, 7.81529629e-01, 7.81486780e-01,
7.81443926e-01, 7.81401068e-01, 7.81358206e-01, 7.81315338e-01, 7.81272468e-01,
7.81229594e-01, 7.81186715e-01, 7.81143833e-01, 7.81100946e-01, 7.81058055e-01,
7.81015158e-01, 7.80972259e-01, 7.80929356e-01, 7.80886448e-01, 7.80843537e-01,
7.80800621e-01, 7.80757701e-01, 7.80714775e-01, 7.80671847e-01, 7.80628915e-01)
SOLAR_ECEF_Y = (-5.87370827e-01, -5.87427783e-01, -5.87484733e-01, -5.87541681e-01, -5.87598625e-01,
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SOLAR_ECEF_Z = (2.04934990e-01, 2.04934924e-01, 2.04934857e-01, 2.04934791e-01, 2.04934725e-01,
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2.04933994e-01, 2.04933928e-01, 2.04933861e-01, 2.04933795e-01, 2.04933729e-01,
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2.04932002e-01, 2.04931936e-01, 2.04931869e-01, 2.04931803e-01, 2.04931737e-01,
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END_GROUP = SOLAR_VECTOR
GROUP = RPC_BAND01
BAND01_NUMBER_OF_SCAS = 14
BAND01_NUM_L1T_LINES = 7801
BAND01_NUM_L1T_SAMPS = 7711
BAND01_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND01_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND01_NUM_L1R_LINES = 7501
BAND01_NUM_L1R_SAMPS = 494
BAND01_PIXEL_SIZE = 30.000
BAND01_START_TIME = 10.541992
BAND01_LINE_TIME = 0.004236000
BAND01_MEAN_HEIGHT = 3500.000
BAND01_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND01_MEAN_L1T_LINE_SAMP = (3909.109, 3864.051)
BAND01_MEAN_SAT_VECTOR = (-0.002377377, 0.000745667, 0.996304169)
BAND01_SAT_NUM_COEF = (1.472485e-05, -2.813823e-07, -4.710069e-05, -3.162003e-09, -9.805052e-06,
1.339565e-11, 4.010071e-11, 9.488484e-12, 5.073617e-16, 4.340337e-17)
BAND01_SAT_X_DEN_COEF = (-2.930706e-06, 0.000000e+00, -1.402663e-06, 2.138658e-06, 3.683586e-11,
4.306996e-10, 9.532925e-10, -2.050529e-16, -8.283405e-18)
BAND01_SAT_Y_NUM_COEF = (3.104568e-04, 4.711962e-05, -2.863156e-07, 1.022793e-09, -4.430303e-05,
-9.070290e-13, -2.564713e-11, -9.526851e-11, -1.289936e-16, -1.954363e-17)
BAND01_SAT_Y_DEN_COEF = (1.099242e-07, -3.827482e-07, -1.403615e-06, 0.000000e+00, 3.233169e-11,
5.519042e-10, 9.416132e-10, -9.739869e-17, -2.703614e-17)
BAND01_SAT_Z_NUM_COEF = (3.670620e-03, -5.037309e-08, -1.101987e-07, -1.036272e-08, 2.450184e-08,
-5.441173e-11, -4.779799e-10, -1.049569e-09, 1.742573e-16, 5.688711e-20)
BAND01_SAT_Z_DEN_COEF = (-3.824717e-06, 1.097203e-06, -2.821881e-06, 4.028278e-06, 7.389314e-11,
6.340872e-10, 1.394452e-09, 8.321244e-17, 6.446801e-17)
BAND01_MEAN_SUN_VECTOR = (0.506088162, 0.517357908, 0.689971151)
BAND01_SUN_X_NUM_COEF = (1.973866e-05, -2.566735e-08, -4.283574e-06, -2.301956e-16, -2.581159e-07,
-2.270218e-13, -9.532636e-12, -6.422625e-12, 2.023220e-18, 3.180561e-18)
BAND01_SUN_X_DEN_COEF = (2.027625e-07, 0.000000e+00, -3.523215e-12, -1.887678e-07, -1.545894e-11,
-5.551620e-12, 9.440252e-12, -4.114851e-17, -6.006932e-18)
BAND01_SUN_Y_NUM_COEF = (5.123692e-05, 3.268933e-06, 9.963108e-07, -4.154128e-14, 6.084557e-08,
-4.702180e-11, -4.875457e-12, -9.013471e-12, -3.203065e-17, 3.901627e-18)
BAND01_SUN_Y_DEN_COEF = (-1.266195e-05, -1.450994e-06, -3.967578e-11, 6.564509e-08, -1.657442e-11,
3.328308e-11, 0.000000e+00, 2.340358e-16, -2.445769e-16)
BAND01_SUN_Z_NUM_COEF = (5.970832e-05, -2.432488e-06, 2.394596e-06, -2.302585e-14, 1.438125e-07,

-2.676842e-11, 1.994827e-11, -8.980212e-12, -8.397537e-17, -2.273905e-17)
BAND01_SUN_Z_DEN_COEF = (7.792779e-06, -5.581064e-07, -9.821582e-11, 4.391933e-07, -5.393552e-12,
2.470943e-11, 0.000000e+00, -1.421054e-16, -9.892710e-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 = (3402.903, 962.358)
BAND01_SCA01_LINE_NUM_COEF = (4.438744e-02, 1.019168e+00, -1.970572e-01, 1.070173e-04, -8.778184e-06)
BAND01_SCA01_LINE_DEN_COEF = (3.949692e-08, -8.080964e-06, -8.219191e-10, -4.646267e-12)
BAND01_SCA01_SAMP_NUM_COEF = (2.215077e-01, 2.267151e-01, 9.942897e-01, -4.624304e-03, 4.273373e-07)
BAND01_SCA01_SAMP_DEN_COEF = (-1.181616e-06, -7.496109e-06, -1.537843e-06, -6.962378e-12)
BAND01_SCA02_MEAN_HEIGHT = 3500.000
BAND01_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA02_MEAN_L1T_LINE_SAMP = (3223.638, 1472.057)
BAND01_SCA02_LINE_NUM_COEF = (2.562940e-02, 1.017412e+00, -2.053271e-01, -3.053211e-04, -7.170662e-06)
BAND01_SCA02_LINE_DEN_COEF = (2.526167e-08, -6.619876e-06, -1.859201e-10, -4.560999e-12)
BAND01_SCA02_SAMP_NUM_COEF = (2.534231e-01, 2.286390e-01, 1.002772e+00, -3.924672e-03, 4.280671e-07)
BAND01_SCA02_SAMP_DEN_COEF = (-9.156310e-07, -6.305843e-06, -1.546832e-06, -6.505976e-12)
BAND01_SCA03_MEAN_HEIGHT = 3500.000
BAND01_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA03_MEAN_L1T_LINE_SAMP = (3597.281, 1854.456)
BAND01_SCA03_LINE_NUM_COEF = (2.340313e-02, 1.017041e+00, -2.071599e-01, 1.742153e-04, -8.246756e-06)
BAND01_SCA03_LINE_DEN_COEF = (3.410125e-08, -7.584996e-06, -9.217752e-10, -4.524615e-12)
BAND01_SCA03_SAMP_NUM_COEF = (2.810707e-01, 2.292924e-01, 1.006156e+00, -3.198652e-03, 4.364086e-07)
BAND01_SCA03_SAMP_DEN_COEF = (-7.331694e-07, -5.528237e-06, -1.552882e-06, -6.242939e-12)
BAND01_SCA04_MEAN_HEIGHT = 3500.000
BAND01_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA04_MEAN_L1T_LINE_SAMP = (3419.472, 2358.953)
BAND01_SCA04_LINE_NUM_COEF = (9.599740e-03, 1.015472e+00, -2.146110e-01, -2.555074e-04, -7.649603e-06)
BAND01_SCA04_LINE_DEN_COEF = (2.871941e-08, -7.035061e-06, -2.339765e-10, -4.454695e-12)
BAND01_SCA04_SAMP_NUM_COEF = (3.147254e-01, 2.307313e-01, 1.012503e+00, -2.481278e-03, 4.361881e-07)
BAND01_SCA04_SAMP_DEN_COEF = (-4.335160e-07, -4.189618e-06, -1.559467e-06, -5.713180e-12)
BAND01_SCA05_MEAN_HEIGHT = 3500.000
BAND01_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA05_MEAN_L1T_LINE_SAMP = (3792.761, 2737.263)
BAND01_SCA05_LINE_NUM_COEF = (2.479210e-02, 1.014837e+00, -2.176104e-01, 2.172669e-04, -1.238669e-05)
BAND01_SCA05_LINE_DEN_COEF = (7.487920e-08, -1.127518e-05, -1.173400e-09, -4.400668e-12)
BAND01_SCA05_SAMP_NUM_COEF = (3.403512e-01, 2.309396e-01, 1.013930e+00, -1.747312e-03, 4.437485e-07)
BAND01_SCA05_SAMP_DEN_COEF = (-2.581418e-07, -3.441794e-06, -1.563202e-06, -5.464231e-12)
BAND01_SCA06_MEAN_HEIGHT = 3500.000
BAND01_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA06_MEAN_L1T_LINE_SAMP = (3616.791, 3238.568)
BAND01_SCA06_LINE_NUM_COEF = (-2.438208e-03, 1.013578e+00, -2.236949e-01, -2.280957e-04, -8.843028e-06)
BAND01_SCA06_LINE_DEN_COEF = (3.984531e-08, -8.087749e-06, -2.218014e-10, -4.345847e-12)
BAND01_SCA06_SAMP_NUM_COEF = (3.789535e-01, 2.318353e-01, 1.017885e+00, -1.017611e-03, 4.424709e-07)
BAND01_SCA06_SAMP_DEN_COEF = (1.030926e-07, -1.832180e-06, -1.567038e-06, -4.798109e-12)
BAND01_SCA07_MEAN_HEIGHT = 3500.000
BAND01_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA07_MEAN_L1T_LINE_SAMP = (3990.395, 3614.727)
BAND01_SCA07_LINE_NUM_COEF = (-4.670287e-03, 1.012640e+00, -2.280388e-01, 2.354689e-04, -9.887232e-06)
BAND01_SCA07_LINE_DEN_COEF = (5.027267e-08, -9.014441e-06, -1.098815e-09, -4.278647e-12)
BAND01_SCA07_SAMP_NUM_COEF = (4.143229e-01, 2.315034e-01, 1.016935e+00, -2.807973e-04, 4.490332e-07)

BAND01_SCA07_SAMP_DEN_COEF = (3.793429e-07, -6.398595e-07, -1.568529e-06, -4.355193e-12)
BAND01_SCA08_MEAN_HEIGHT = 3500.000
BAND01_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA08_MEAN_L1T_LINE_SAMP = (3815.780, 4115.145)
BAND01_SCA08_LINE_NUM_COEF = (-3.133641e-02, 1.011642e+00, -2.329751e-01, -2.232449e-04, -6.535184e-06)
BAND01_SCA08_LINE_DEN_COEF = (1.471724e-08, -6.010609e-06, -3.337420e-10, -4.252648e-12)
BAND01_SCA08_SAMP_NUM_COEF = (4.617151e-01, 2.319089e-01, 1.018728e+00, 4.547929e-04, 4.467887e-07)
BAND01_SCA08_SAMP_DEN_COEF = (8.334693e-07, 1.378591e-06, -1.568268e-06, -3.495486e-12)
BAND01_SCA09_MEAN_HEIGHT = 3500.000
BAND01_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA09_MEAN_L1T_LINE_SAMP = (4191.179, 4490.710)
BAND01_SCA09_LINE_NUM_COEF = (-2.289064e-02, 1.010398e+00, -2.386764e-01, 2.289307e-04, -9.693881e-06)
BAND01_SCA09_LINE_DEN_COEF = (4.852227e-08, -8.819860e-06, -1.075214e-09, -4.155114e-12)
BAND01_SCA09_SAMP_NUM_COEF = (4.829573e-01, 2.310644e-01, 1.015521e+00, 1.187882e-03, 4.523842e-07)
BAND01_SCA09_SAMP_DEN_COEF = (9.857537e-07, 2.027981e-06, -1.566792e-06, -3.289345e-12)
BAND01_SCA10_MEAN_HEIGHT = 3500.000
BAND01_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA10_MEAN_L1T_LINE_SAMP = (4017.866, 4992.114)
BAND01_SCA10_LINE_NUM_COEF = (-3.333707e-02, 1.009668e+00, -2.424350e-01, -2.408144e-04, -9.491171e-06)
BAND01_SCA10_LINE_DEN_COEF = (4.595639e-08, -8.629705e-06, -1.677878e-10, -4.117903e-12)
BAND01_SCA10_SAMP_NUM_COEF = (5.078244e-01, 2.309627e-01, 1.015077e+00, 1.923193e-03, 4.491367e-07)
BAND01_SCA10_SAMP_DEN_COEF = (1.239150e-06, 3.165173e-06, -1.563782e-06, -2.801901e-12)
BAND01_SCA11_MEAN_HEIGHT = 3500.000
BAND01_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA11_MEAN_L1T_LINE_SAMP = (4395.659, 5369.055)
BAND01_SCA11_LINE_NUM_COEF = (-4.476129e-02, 1.008162e+00, -2.493027e-01, 1.967729e-04, -8.777780e-06)
BAND01_SCA11_LINE_DEN_COEF = (3.833979e-08, -7.983545e-06, -9.745837e-10, -4.043947e-12)
BAND01_SCA11_SAMP_NUM_COEF = (5.436004e-01, 2.296318e-01, 1.009724e+00, 2.646754e-03, 4.537790e-07)
BAND01_SCA11_SAMP_DEN_COEF = (1.529243e-06, 4.421408e-06, -1.558915e-06, -2.326980e-12)
BAND01_SCA12_MEAN_HEIGHT = 3500.000
BAND01_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA12_MEAN_L1T_LINE_SAMP = (4223.786, 5873.826)
BAND01_SCA12_LINE_NUM_COEF = (-6.902246e-02, 1.007794e+00, -2.514700e-01, -2.799800e-04, -5.996520e-06)
BAND01_SCA12_LINE_DEN_COEF = (5.466052e-09, -5.506179e-06, -2.889294e-10, -4.062764e-12)
BAND01_SCA12_SAMP_NUM_COEF = (5.526900e-01, 2.290349e-01, 1.007093e+00, 3.376487e-03, 4.495507e-07)
BAND01_SCA12_SAMP_DEN_COEF = (1.642322e-06, 4.942092e-06, -1.555007e-06, -2.092488e-12)
BAND01_SCA13_MEAN_HEIGHT = 3500.000
BAND01_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA13_MEAN_L1T_LINE_SAMP = (4605.111, 6253.918)
BAND01_SCA13_LINE_NUM_COEF = (-4.937083e-02, 1.005960e+00, -2.598014e-01, 1.395941e-04, -1.087420e-05)
BAND01_SCA13_LINE_DEN_COEF = (6.286309e-08, -9.823329e-06, -9.310994e-10, -3.892017e-12)
BAND01_SCA13_SAMP_NUM_COEF = (6.220951e-01, 2.272127e-01, 9.995705e-01, 4.084516e-03, 4.532020e-07)
BAND01_SCA13_SAMP_DEN_COEF = (2.238418e-06, 7.545622e-06, -1.541932e-06, -1.013565e-12)
BAND01_SCA14_MEAN_HEIGHT = 3500.000
BAND01_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND01_SCA14_MEAN_L1T_LINE_SAMP = (4434.898, 6763.569)
BAND01_SCA14_LINE_NUM_COEF = (-6.858232e-02, 1.005902e+00, -2.606045e-01, -3.410973e-04, -9.000935e-06)
BAND01_SCA14_LINE_DEN_COEF = (3.928014e-08, -8.158294e-06, -1.018763e-11, -3.912633e-12)
BAND01_SCA14_SAMP_NUM_COEF = (6.192772e-01, 2.261245e-01, 9.947699e-01, 4.801893e-03, 4.480007e-07)
BAND01_SCA14_SAMP_DEN_COEF = (2.245191e-06, 7.598793e-06, -1.537621e-06, -9.747342e-13)
END_GROUP = RPC_BAND01
GROUP = RPC_BAND02

BAND02_NUMBER_OF_SCAS = 14
 BAND02_NUM_L1T_LINES = 7801
 BAND02_NUM_L1T_SAMPS = 7711
 BAND02_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
 BAND02_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
 BAND02_NUM_L1R_LINES = 7501
 BAND02_NUM_L1R_SAMPS = 494
 BAND02_PIXEL_SIZE = 30.000
 BAND02_START_TIME = 10.541992
 BAND02_LINE_TIME = 0.004236000
 BAND02_MEAN_HEIGHT = 3500.000
 BAND02_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
 BAND02_MEAN_L1T_LINE_SAMP = (3909.081, 3864.059)
 BAND02_MEAN_SAT_VECTOR = (-0.002378426, 0.000744614, 0.996312181)
 BAND02_SAT_X_NUM_COEF = (1.520060e-05, -2.815481e-07, -4.710099e-05, -3.364258e-09, -9.804962e-06,
 1.114182e-11, 2.094204e-11, -3.118543e-11, 5.125025e-16, 4.345684e-17)
 BAND02_SAT_X_DEN_COEF = (-2.515303e-06, 8.709177e-07, -1.402733e-06, 1.948186e-06, 3.683278e-11,
 4.308013e-10, 9.531090e-10, -2.062164e-16, -7.302242e-18)
 BAND02_SAT_Y_NUM_COEF = (3.101780e-04, 4.712000e-05, -2.863077e-07, 1.021128e-09, -4.430321e-05,
 -9.056115e-13, -2.564596e-11, -9.526171e-11, -1.367047e-16, -1.954787e-17)
 BAND02_SAT_Y_DEN_COEF = (1.099205e-07, -3.823703e-07, -1.403358e-06, 0.000000e+00, 3.270382e-11,
 5.558421e-10, 9.411312e-10, -8.226886e-17, -2.938159e-17)
 BAND02_SAT_Z_NUM_COEF = (3.670683e-03, -5.031272e-08, -1.102088e-07, -1.036551e-08, 2.444611e-08,
 -5.440785e-11, -4.779787e-10, -1.049568e-09, 1.743792e-16, 5.894627e-20)
 BAND02_SAT_Z_DEN_COEF = (-3.826109e-06, 1.097349e-06, -2.821881e-06, 4.031409e-06, 7.348509e-11,
 6.323147e-10, 1.392614e-09, 3.995864e-17, 6.446101e-17)
 BAND02_MEAN_SUN_VECTOR = (0.506088087, 0.517357972, 0.689971292)
 BAND02_SUN_X_NUM_COEF = (1.978288e-05, -2.566730e-08, -4.283574e-06, 4.021780e-16, -2.581160e-07,
 -2.273228e-13, -9.537041e-12, -6.422592e-12, 1.997690e-18, 3.187419e-18)
 BAND02_SUN_X_DEN_COEF = (2.037807e-07, 0.000000e+00, -3.524667e-12, -1.887435e-07, -1.545008e-11,
 -5.556573e-12, 9.436126e-12, -4.121494e-17, -6.022096e-18)
 BAND02_SUN_Y_NUM_COEF = (5.108083e-05, 3.268907e-06, 9.963117e-07, -3.523028e-14, 6.085272e-08,
 -4.844668e-11, -6.152372e-12, -9.262851e-12, -3.266541e-17, 3.712595e-18)
 BAND02_SUN_Y_DEN_COEF = (-1.309738e-05, -1.705806e-06, -3.738681e-11, 7.230326e-08, -1.733046e-11,
 3.460024e-11, 0.000000e+00, 1.843495e-16, -1.691034e-16)
 BAND02_SUN_Z_NUM_COEF = (5.965204e-05, -2.432504e-06, 2.394603e-06, -1.141100e-14, 1.438446e-07,
 -2.698326e-11, 2.087734e-11, -9.709973e-12, -8.804038e-17, -2.428390e-17)
 BAND02_SUN_Z_DEN_COEF = (7.875190e-06, -8.651952e-07, -9.955649e-11, 4.497847e-07, -4.644937e-12,
 2.716240e-11, 0.000000e+00, -1.197556e-16, -5.339350e-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 = (3374.487, 968.820)
 BAND02_SCA01_LINE_NUM_COEF = (4.507685e-02, 1.019128e+00, -1.972524e-01, 6.042561e-05, -8.970295e-06)
 BAND02_SCA01_LINE_DEN_COEF = (4.130465e-08, -8.253333e-06, -7.412141e-10, -4.647430e-12)
 BAND02_SCA01_SAMP_NUM_COEF = (2.206062e-01, 2.267634e-01, 9.944775e-01, -4.625209e-03, 4.269197e-07)
 BAND02_SCA01_SAMP_DEN_COEF = (-1.187081e-06, -7.517649e-06, -1.537746e-06, -6.967986e-12)
 BAND02_SCA02_MEAN_HEIGHT = 3500.000
 BAND02_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
 BAND02_SCA02_MEAN_L1T_LINE_SAMP = (3251.930, 1465.574)
 BAND02_SCA02_LINE_NUM_COEF = (2.717439e-02, 1.017436e+00, -2.052039e-01, -2.585091e-04, -7.470393e-06)
 BAND02_SCA02_LINE_DEN_COEF = (2.804780e-08, -6.889504e-06, -2.385184e-10, -4.561825e-12)

BAND02_SCA02_SAMP_NUM_COEF = (2.525716e-01, 2.285900e-01, 1.002581e+00, -3.923961e-03, 4.284873e-07)
BAND02_SCA02_SAMP_DEN_COEF = (-9.262094e-07, -6.354631e-06, -1.546634e-06, -6.530969e-12)
BAND02_SCA03_MEAN_HEIGHT = 3500.000
BAND02_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA03_MEAN_L1T_LINE_SAMP = (3568.973, 1860.902)
BAND02_SCA03_LINE_NUM_COEF = (2.217313e-02, 1.017016e+00, -2.072888e-01, 1.273255e-04, -8.015335e-06)
BAND02_SCA03_LINE_DEN_COEF = (3.194649e-08, -7.376792e-06, -8.374286e-10, -4.524113e-12)
BAND02_SCA03_SAMP_NUM_COEF = (2.819163e-01, 2.293395e-01, 1.006338e+00, -3.199247e-03, 4.359823e-07)
BAND02_SCA03_SAMP_DEN_COEF = (-7.225121e-07, -5.479089e-06, -1.553042e-06, -6.217988e-12)
BAND02_SCA04_MEAN_HEIGHT = 3500.000
BAND02_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA04_MEAN_L1T_LINE_SAMP = (3447.668, 2352.495)
BAND02_SCA04_LINE_NUM_COEF = (8.924530e-03, 1.015489e+00, -2.145160e-01, -2.086113e-04, -7.473700e-06)
BAND02_SCA04_LINE_DEN_COEF = (2.695750e-08, -6.877713e-06, -3.140351e-10, -4.454045e-12)
BAND02_SCA04_SAMP_NUM_COEF = (3.139446e-01, 2.306806e-01, 1.012305e+00, -2.480832e-03, 4.366104e-07)
BAND02_SCA04_SAMP_DEN_COEF = (-4.436590e-07, -4.236473e-06, -1.559346e-06, -5.736849e-12)
BAND02_SCA05_MEAN_HEIGHT = 3500.000
BAND02_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA05_MEAN_L1T_LINE_SAMP = (3764.538, 2743.696)
BAND02_SCA05_LINE_NUM_COEF = (2.382701e-02, 1.014819e+00, -2.177064e-01, 1.702791e-04, -1.221556e-05)
BAND02_SCA05_LINE_DEN_COEF = (7.322918e-08, -1.112144e-05, -1.050007e-09, -4.400930e-12)
BAND02_SCA05_SAMP_NUM_COEF = (3.396614e-01, 2.309901e-01, 1.014126e+00, -1.747648e-03, 4.433242e-07)
BAND02_SCA05_SAMP_DEN_COEF = (-2.614990e-07, -3.454198e-06, -1.563185e-06, -5.466624e-12)
BAND02_SCA06_MEAN_HEIGHT = 3500.000
BAND02_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA06_MEAN_L1T_LINE_SAMP = (3644.935, 3232.144)
BAND02_SCA06_LINE_NUM_COEF = (-2.092940e-04, 1.013577e+00, -2.236815e-01, -1.810851e-04, -9.275815e-06)
BAND02_SCA06_LINE_DEN_COEF = (4.426270e-08, -8.475065e-06, -2.900727e-10, -4.343305e-12)
BAND02_SCA06_SAMP_NUM_COEF = (3.785694e-01, 2.317805e-01, 1.017669e+00, -1.017407e-03, 4.428891e-07)
BAND02_SCA06_SAMP_DEN_COEF = (9.649942e-08, -1.863421e-06, -1.567000e-06, -4.815169e-12)
BAND02_SCA07_MEAN_HEIGHT = 3500.000
BAND02_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA07_MEAN_L1T_LINE_SAMP = (3962.206, 3621.155)
BAND02_SCA07_LINE_NUM_COEF = (-3.335728e-03, 1.012632e+00, -2.280890e-01, 1.883762e-04, -1.018614e-05)
BAND02_SCA07_LINE_DEN_COEF = (5.341785e-08, -9.281244e-06, -1.016197e-09, -4.277521e-12)
BAND02_SCA07_SAMP_NUM_COEF = (4.162440e-01, 2.315516e-01, 1.017121e+00, -2.808385e-04, 4.486013e-07)
BAND02_SCA07_SAMP_DEN_COEF = (4.003219e-07, -5.454331e-07, -1.568560e-06, -4.311239e-12)
BAND02_SCA08_MEAN_HEIGHT = 3500.000
BAND02_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA08_MEAN_L1T_LINE_SAMP = (3843.909, 4108.732)
BAND02_SCA08_LINE_NUM_COEF = (-3.076516e-02, 1.011626e+00, -2.330298e-01, -1.762591e-04, -6.627792e-06)
BAND02_SCA08_LINE_DEN_COEF = (1.570645e-08, -6.093357e-06, -3.924870e-10, -4.250391e-12)
BAND02_SCA08_SAMP_NUM_COEF = (4.631066e-01, 2.318596e-01, 1.018537e+00, 4.546957e-04, 4.472197e-07)
BAND02_SCA08_SAMP_DEN_COEF = (8.430399e-07, 1.418412e-06, -1.568243e-06, -3.480885e-12)
BAND02_SCA09_MEAN_HEIGHT = 3500.000
BAND02_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA09_MEAN_L1T_LINE_SAMP = (4162.964, 4497.155)
BAND02_SCA09_LINE_NUM_COEF = (-2.302853e-02, 1.010406e+00, -2.386556e-01, 1.817922e-04, -9.691398e-06)
BAND02_SCA09_LINE_DEN_COEF = (4.849839e-08, -8.817500e-06, -9.830807e-10, -4.156002e-12)
BAND02_SCA09_SAMP_NUM_COEF = (4.827362e-01, 2.311165e-01, 1.015724e+00, 1.188156e-03, 4.519584e-07)
BAND02_SCA09_SAMP_DEN_COEF = (9.869974e-07, 2.035665e-06, -1.566788e-06, -3.283916e-12)
BAND02_SCA10_MEAN_HEIGHT = 3500.000

BAND02_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA10_MEAN_L1T_LINE_SAMP = (4046.047, 4985.691)
BAND02_SCA10_LINE_NUM_COEF = (-3.267410e-02, 1.009646e+00, -2.425158e-01, -1.938552e-04, -9.596581e-06)
BAND02_SCA10_LINE_DEN_COEF = (4.714023e-08, -8.723598e-06, -2.534004e-10, -4.115256e-12)
BAND02_SCA10_SAMP_NUM_COEF = (5.073331e-01, 2.309118e-01, 1.014879e+00, 1.922803e-03, 4.495657e-07)
BAND02_SCA10_SAMP_DEN_COEF = (1.231257e-06, 3.128292e-06, -1.563844e-06, -2.820564e-12)
BAND02_SCA11_MEAN_HEIGHT = 3500.000
BAND02_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA11_MEAN_L1T_LINE_SAMP = (4367.397, 5375.517)
BAND02_SCA11_LINE_NUM_COEF = (-4.486665e-02, 1.008180e+00, -2.492409e-01, 1.496688e-04, -8.778569e-06)
BAND02_SCA11_LINE_DEN_COEF = (3.834069e-08, -7.984175e-06, -8.914543e-10, -4.044975e-12)
BAND02_SCA11_SAMP_NUM_COEF = (5.435366e-01, 2.296807e-01, 1.009913e+00, 2.647304e-03, 4.533468e-07)
BAND02_SCA11_SAMP_DEN_COEF = (1.532076e-06, 4.436033e-06, -1.558882e-06, -2.319029e-12)
BAND02_SCA12_MEAN_HEIGHT = 3500.000
BAND02_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA12_MEAN_L1T_LINE_SAMP = (4252.059, 5867.396)
BAND02_SCA12_LINE_NUM_COEF = (-6.725679e-02, 1.007757e+00, -2.516173e-01, -2.331911e-04, -6.302456e-06)
BAND02_SCA12_LINE_DEN_COEF = (8.992724e-09, -5.778003e-06, -3.310790e-10, -4.056248e-12)
BAND02_SCA12_SAMP_NUM_COEF = (5.541104e-01, 2.289827e-01, 1.006889e+00, 3.375800e-03, 4.499766e-07)
BAND02_SCA12_SAMP_DEN_COEF = (1.651917e-06, 4.982122e-06, -1.554866e-06, -2.077051e-12)
BAND02_SCA13_MEAN_HEIGHT = 3500.000
BAND02_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA13_MEAN_L1T_LINE_SAMP = (4576.745, 6260.413)
BAND02_SCA13_LINE_NUM_COEF = (-4.830000e-02, 1.005992e+00, -2.596730e-01, 9.264039e-05, -1.107713e-05)
BAND02_SCA13_LINE_DEN_COEF = (6.522437e-08, -1.000340e-05, -8.324408e-10, -3.890007e-12)
BAND02_SCA13_SAMP_NUM_COEF = (6.208002e-01, 2.272621e-01, 9.997622e-01, 4.085376e-03, 4.527724e-07)
BAND02_SCA13_SAMP_DEN_COEF = (2.230174e-06, 7.511461e-06, -1.542076e-06, -1.028161e-12)
BAND02_SCA14_MEAN_HEIGHT = 3500.000
BAND02_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND02_SCA14_MEAN_L1T_LINE_SAMP = (4463.275, 6757.129)
BAND02_SCA14_LINE_NUM_COEF = (-6.765277e-02, 1.005847e+00, -2.608323e-01, -2.947063e-04, -9.147178e-06)
BAND02_SCA14_LINE_DEN_COEF = (4.107751e-08, -8.287716e-06, -8.531780e-11, -3.907448e-12)
BAND02_SCA14_SAMP_NUM_COEF = (6.178162e-01, 2.260743e-01, 9.945750e-01, 4.800966e-03, 4.484281e-07)
BAND02_SCA14_SAMP_DEN_COEF = (2.228520e-06, 7.523343e-06, -1.537979e-06, -1.010957e-12)
END_GROUP = RPC_BAND02
GROUP = RPC_BAND03
BAND03_NUMBER_OF_SCAS = 14
BAND03_NUM_L1T_LINES = 7801
BAND03_NUM_L1T_SAMPS = 7711
BAND03_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND03_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND03_NUM_L1R_LINES = 7501
BAND03_NUM_L1R_SAMPS = 494
BAND03_PIXEL_SIZE = 30.000
BAND03_START_TIME = 10.541992
BAND03_LINE_TIME = 0.004236000
BAND03_MEAN_HEIGHT = 3500.000
BAND03_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND03_MEAN_L1T_LINE_SAMP = (3909.464, 3863.967)
BAND03_MEAN_SAT_VECTOR = (-0.002371158, 0.000761568, 0.996268752)
BAND03_SAT_X_NUM_COEF = (1.197533e-05, -2.814906e-07, -4.709918e-05, -3.155257e-09, -9.804620e-06,
1.364296e-11, 4.119527e-11, 9.524206e-12, 4.979795e-16, 4.330927e-17)

BAND03_SAT_X_DEN_COEF = (-2.959780e-06, 0.000000e+00, -1.402655e-06, 2.143259e-06, 3.705079e-11,
4.306148e-10, 9.533016e-10, -2.050793e-16, -8.285411e-18)
BAND03_SAT_Y_NUM_COEF = (3.114578e-04, 4.711810e-05, -2.863606e-07, 1.045724e-09, -4.430236e-05,
-9.127634e-13, -2.565418e-11, -9.529433e-11, -8.579545e-17, -1.949834e-17)
BAND03_SAT_Y_DEN_COEF = (1.099270e-07, -3.829421e-07, -1.404446e-06, 0.000000e+00, 3.224191e-11,
5.328499e-10, 9.436880e-10, -1.477107e-16, -1.968360e-17)
BAND03_SAT_Z_NUM_COEF = (3.670688e-03, -5.116586e-08, -1.100283e-07, -1.035152e-08, 2.527317e-08,
-5.442710e-11, -4.779781e-10, -1.049561e-09, 1.737540e-16, 4.831439e-20)
BAND03_SAT_Z_DEN_COEF = (-3.822228e-06, 1.096767e-06, -2.821880e-06, 4.020523e-06, 7.522456e-11,
6.391868e-10, 1.399546e-09, 2.563496e-16, 6.454852e-17)
BAND03_MEAN_SUN_VECTOR = (0.506088660, 0.517358456, 0.689969835)
BAND03_SUN_X_NUM_COEF = (1.959437e-05, -2.566681e-08, -4.283576e-06, -2.959935e-15, -2.581155e-07,
-2.265619e-13, -9.526034e-12, -6.422701e-12, 2.035508e-18, 3.171074e-18)
BAND03_SUN_X_DEN_COEF = (2.012255e-07, 0.000000e+00, -3.399321e-12, -1.888015e-07, -1.547208e-11,
-5.548270e-12, 9.453392e-12, -4.094481e-17, -6.006124e-18)
BAND03_SUN_Y_NUM_COEF = (5.181546e-05, 3.269409e-06, 9.964288e-07, -4.068592e-14, 6.082273e-08,
-1.686352e-11, 1.485788e-11, -5.832809e-12, -3.055478e-17, 6.444384e-18)
BAND03_SUN_Y_DEN_COEF = (-3.439846e-06, 1.761618e-06, -4.918927e-11, -9.599815e-08, -1.910151e-12,
0.000000e+00, 1.704914e-11, 3.374708e-16, -5.194843e-16)
BAND03_SUN_Z_NUM_COEF = (5.995257e-05, -2.432427e-06, 2.394546e-06, -5.237837e-14, 1.437219e-07,
-2.699492e-11, 1.890437e-11, -7.659559e-12, -6.976874e-17, -1.808942e-17)
BAND03_SUN_Z_DEN_COEF = (7.903442e-06, 0.000000e+00, -9.696062e-11, 4.302324e-07, -9.201080e-12,
1.595424e-11, -1.802019e-12, -2.135207e-16, -2.376358e-16)
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 = (3488.440, 942.790)
BAND03_SCA01_LINE_NUM_COEF = (5.306496e-02, 1.019278e+00, -1.965168e-01, 2.474892e-04, -1.058723e-05)
BAND03_SCA01_LINE_DEN_COEF = (5.562611e-08, -9.711052e-06, -1.162553e-09, -4.659982e-12)
BAND03_SCA01_SAMP_NUM_COEF = (2.243860e-01, 2.265625e-01, 9.936933e-01, -4.621623e-03, 4.285796e-07)
BAND03_SCA01_SAMP_DEN_COEF = (-1.163507e-06, -7.424002e-06, -1.538170e-06, -6.942946e-12)
BAND03_SCA02_MEAN_HEIGHT = 3500.000
BAND03_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA02_MEAN_L1T_LINE_SAMP = (3138.995, 1491.344)
BAND03_SCA02_LINE_NUM_COEF = (2.233039e-02, 1.017322e+00, -2.057779e-01, -4.450249e-04, -6.565406e-06)
BAND03_SCA02_LINE_DEN_COEF = (1.967488e-08, -6.075018e-06, -3.664904e-11, -4.559179e-12)
BAND03_SCA02_SAMP_NUM_COEF = (2.507764e-01, 2.287803e-01, 1.003319e+00, -3.926881e-03, 4.267995e-07)
BAND03_SCA02_SAMP_DEN_COEF = (-9.312778e-07, -6.367311e-06, -1.546611e-06, -6.521171e-12)
BAND03_SCA03_MEAN_HEIGHT = 3500.000
BAND03_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA03_MEAN_L1T_LINE_SAMP = (3682.455, 1834.988)
BAND03_SCA03_LINE_NUM_COEF = (2.393772e-02, 1.017113e+00, -2.067892e-01, 3.153835e-04, -8.255777e-06)
BAND03_SCA03_LINE_DEN_COEF = (3.405848e-08, -7.594282e-06, -1.158415e-09, -4.523891e-12)
BAND03_SCA03_SAMP_NUM_COEF = (2.813223e-01, 2.291329e-01, 1.005530e+00, -3.196741e-03, 4.376560e-07)
BAND03_SCA03_SAMP_DEN_COEF = (-7.392220e-07, -5.561973e-06, -1.552764e-06, -6.268830e-12)
BAND03_SCA04_MEAN_HEIGHT = 3500.000
BAND03_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA04_MEAN_L1T_LINE_SAMP = (3335.134, 2378.200)
BAND03_SCA04_LINE_NUM_COEF = (8.734703e-03, 1.015425e+00, -2.148674e-01, -3.958190e-04, -7.560448e-06)
BAND03_SCA04_LINE_DEN_COEF = (2.793208e-08, -6.954210e-06, -2.360888e-11, -4.456658e-12)
BAND03_SCA04_SAMP_NUM_COEF = (3.113720e-01, 2.308704e-01, 1.013039e+00, -2.482589e-03, 4.349004e-07)
BAND03_SCA04_SAMP_DEN_COEF = (-4.553233e-07, -4.278300e-06, -1.559272e-06, -5.740611e-12)

BAND03_SCA05_MEAN_HEIGHT = 3500.000
BAND03_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA05_MEAN_L1T_LINE_SAMP = (3877.728, 2717.858)
BAND03_SCA05_LINE_NUM_COEF = (2.547623e-02, 1.014865e+00, -2.174355e-01, 3.589419e-04, -1.243694e-05)
BAND03_SCA05_LINE_DEN_COEF = (7.526711e-08, -1.132125e-05, -1.531368e-09, -4.399186e-12)
BAND03_SCA05_SAMP_NUM_COEF = (3.431716e-01, 2.307769e-01, 1.013291e+00, -1.746283e-03, 4.450043e-07)
BAND03_SCA05_SAMP_DEN_COEF = (-2.409658e-07, -3.373413e-06, -1.563306e-06, -5.445102e-12)
BAND03_SCA06_MEAN_HEIGHT = 3500.000
BAND03_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA06_MEAN_L1T_LINE_SAMP = (3532.592, 3257.772)
BAND03_SCA06_LINE_NUM_COEF = (-5.095299e-03, 1.013560e+00, -2.238233e-01, -3.686608e-04, -8.378703e-06)
BAND03_SCA06_LINE_DEN_COEF = (3.515585e-08, -7.671670e-06, -5.031357e-12, -4.349822e-12)
BAND03_SCA06_SAMP_NUM_COEF = (3.794973e-01, 2.319777e-01, 1.018435e+00, -1.018153e-03, 4.411772e-07)
BAND03_SCA06_SAMP_DEN_COEF = (1.176445e-07, -1.761439e-06, -1.567132e-06, -4.758461e-12)
BAND03_SCA07_MEAN_HEIGHT = 3500.000
BAND03_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA07_MEAN_L1T_LINE_SAMP = (4075.290, 3595.360)
BAND03_SCA07_LINE_NUM_COEF = (-3.745407e-03, 1.012632e+00, -2.280251e-01, 3.773236e-04, -9.992705e-06)
BAND03_SCA07_LINE_DEN_COEF = (5.133853e-08, -9.109292e-06, -1.389817e-09, -4.275532e-12)
BAND03_SCA07_SAMP_NUM_COEF = (4.162211e-01, 2.313365e-01, 1.016278e+00, -2.806723e-04, 4.502901e-07)
BAND03_SCA07_SAMP_DEN_COEF = (3.875990e-07, -6.104378e-07, -1.568523e-06, -4.351208e-12)
BAND03_SCA08_MEAN_HEIGHT = 3500.000
BAND03_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA08_MEAN_L1T_LINE_SAMP = (3731.608, 4134.339)
BAND03_SCA08_LINE_NUM_COEF = (-3.399177e-02, 1.011665e+00, -2.329248e-01, -3.638909e-04, -6.074400e-06)
BAND03_SCA08_LINE_DEN_COEF = (9.826477e-09, -5.598925e-06, -1.817518e-10, -4.259656e-12)
BAND03_SCA08_SAMP_NUM_COEF = (4.561162e-01, 2.320416e-01, 1.019236e+00, 4.550578e-04, 4.454695e-07)
BAND03_SCA08_SAMP_DEN_COEF = (7.917476e-07, 1.201975e-06, -1.568371e-06, -3.565836e-12)
BAND03_SCA09_MEAN_HEIGHT = 3500.000
BAND03_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA09_MEAN_L1T_LINE_SAMP = (4276.112, 4471.342)
BAND03_SCA09_LINE_NUM_COEF = (-1.908289e-02, 1.010356e+00, -2.388115e-01, 3.707196e-04, -1.035939e-05)
BAND03_SCA09_LINE_DEN_COEF = (5.579453e-08, -9.413343e-06, -1.401643e-09, -4.145860e-12)
BAND03_SCA09_SAMP_NUM_COEF = (4.834067e-01, 2.309062e-01, 1.014903e+00, 1.187098e-03, 4.536627e-07)
BAND03_SCA09_SAMP_DEN_COEF = (9.800490e-07, 1.996231e-06, -1.566815e-06, -3.310722e-12)
BAND03_SCA10_MEAN_HEIGHT = 3500.000
BAND03_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA10_MEAN_L1T_LINE_SAMP = (3933.574, 5011.357)
BAND03_SCA10_LINE_NUM_COEF = (-3.606975e-02, 1.009730e+00, -2.422082e-01, -3.813123e-04, -9.031608e-06)
BAND03_SCA10_LINE_DEN_COEF = (4.082888e-08, -8.220341e-06, 6.547382e-11, -4.127390e-12)
BAND03_SCA10_SAMP_NUM_COEF = (5.040706e-01, 2.311036e-01, 1.015620e+00, 1.924318e-03, 4.478304e-07)
BAND03_SCA10_SAMP_DEN_COEF = (1.214744e-06, 3.064463e-06, -1.563996e-06, -2.839505e-12)
BAND03_SCA11_MEAN_HEIGHT = 3500.000
BAND03_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA11_MEAN_L1T_LINE_SAMP = (4480.779, 5349.652)
BAND03_SCA11_LINE_NUM_COEF = (-4.326421e-02, 1.008079e+00, -2.496211e-01, 3.382667e-04, -8.996233e-06)
BAND03_SCA11_LINE_DEN_COEF = (4.089161e-08, -8.177740e-06, -1.239192e-09, -4.036666e-12)
BAND03_SCA11_SAMP_NUM_COEF = (5.434567e-01, 2.294712e-01, 1.009095e+00, 2.645039e-03, 4.550528e-07)
BAND03_SCA11_SAMP_DEN_COEF = (1.517822e-06, 4.364648e-06, -1.559051e-06, -2.358828e-12)
BAND03_SCA12_MEAN_HEIGHT = 3500.000
BAND03_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA12_MEAN_L1T_LINE_SAMP = (4139.258, 5893.126)

BAND03_SCA12_LINE_NUM_COEF = (-6.895020e-02, 1.007887e+00, -2.511085e-01, -4.201817e-04, -6.052922e-06)
BAND03_SCA12_LINE_DEN_COEF = (6.075590e-09, -5.556248e-06, -1.150852e-10, -4.067045e-12)
BAND03_SCA12_SAMP_NUM_COEF = (5.533856e-01, 2.291749e-01, 1.007632e+00, 3.378418e-03, 4.482447e-07)
BAND03_SCA12_SAMP_DEN_COEF = (1.659052e-06, 5.022112e-06, -1.554761e-06, -2.050902e-12)
BAND03_SCA13_MEAN_HEIGHT = 3500.000
BAND03_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA13_MEAN_L1T_LINE_SAMP = (4690.549, 6234.443)
BAND03_SCA13_LINE_NUM_COEF = (-4.583166e-02, 1.005844e+00, -2.602674e-01, 2.806403e-04, -1.143057e-05)
BAND03_SCA13_LINE_DEN_COEF = (6.960614e-08, -1.031628e-05, -1.270207e-09, -3.877717e-12)
BAND03_SCA13_SAMP_NUM_COEF = (6.178940e-01, 2.270517e-01, 9.989399e-01, 4.081861e-03, 4.544706e-07)
BAND03_SCA13_SAMP_DEN_COEF = (2.189893e-06, 7.325788e-06, -1.542819e-06, -1.116923e-12)
BAND03_SCA14_MEAN_HEIGHT = 3500.000
BAND03_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND03_SCA14_MEAN_L1T_LINE_SAMP = (4349.976, 6782.962)
BAND03_SCA14_LINE_NUM_COEF = (-6.898183e-02, 1.006033e+00, -2.600711e-01, -4.807050e-04, -8.973716e-06)
BAND03_SCA14_LINE_DEN_COEF = (3.882410e-08, -8.134596e-06, 2.392358e-10, -3.918978e-12)
BAND03_SCA14_SAMP_NUM_COEF = (6.158237e-01, 2.262575e-01, 9.952788e-01, 4.804513e-03, 4.466873e-07)
BAND03_SCA14_SAMP_DEN_COEF = (2.224573e-06, 7.514407e-06, -1.538049e-06, -1.007976e-12)
END_GROUP = RPC_BAND03
GROUP = RPC_BAND04
BAND04_NUMBER_OF_SCAS = 14
BAND04_NUM_L1T_LINES = 7801
BAND04_NUM_L1T_SAMPS = 7711
BAND04_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND04_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND04_NUM_L1R_LINES = 7501
BAND04_NUM_L1R_SAMPS = 494
BAND04_PIXEL_SIZE = 30.000
BAND04_START_TIME = 10.541992
BAND04_LINE_TIME = 0.004236000
BAND04_MEAN_HEIGHT = 3500.000
BAND04_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND04_MEAN_L1T_LINE_SAMP = (3909.393, 3863.984)
BAND04_MEAN_SAT_VECTOR = (-0.002372773, 0.000758533, 0.996282362)
BAND04_SAT_X_NUM_COEF = (1.295131e-05, -2.814658e-07, -4.709976e-05, -3.156670e-09, -9.804770e-06,
1.359868e-11, 4.099889e-11, 9.516883e-12, 4.998704e-16, 4.332676e-17)
BAND04_SAT_X_DEN_COEF = (-2.954341e-06, 0.000000e+00, -1.402657e-06, 2.142216e-06, 3.700887e-11,
4.306295e-10, 9.533008e-10, -2.051512e-16, -8.287586e-18)
BAND04_SAT_Y_NUM_COEF = (3.111190e-04, 4.711865e-05, -2.863414e-07, 1.041269e-09, -4.430261e-05,
-9.109017e-13, -2.565284e-11, -9.528814e-11, -1.028643e-16, -1.951798e-17)
BAND04_SAT_Y_DEN_COEF = (1.099299e-07, -3.829278e-07, -1.404166e-06, 0.000000e+00, 3.210336e-11,
5.400778e-10, 9.428433e-10, -1.313321e-16, -2.209043e-17)
BAND04_SAT_Z_NUM_COEF = (3.670707e-03, -5.100712e-08, -1.100611e-07, -1.035597e-08, 2.512029e-08,
-5.442140e-11, -4.779796e-10, -1.049566e-09, 1.739455e-16, 5.157944e-20)
BAND04_SAT_Z_DEN_COEF = (-3.822341e-06, 1.096772e-06, -2.821881e-06, 4.022394e-06, 7.476986e-11,
6.375341e-10, 1.397915e-09, 1.916432e-16, 6.450808e-17)
BAND04_MEAN_SUN_VECTOR = (0.506088537, 0.517358434, 0.689970144)
BAND04_SUN_X_NUM_COEF = (1.964504e-05, -2.566693e-08, -4.283575e-06, -1.908871e-15, -2.581156e-07,
-2.266721e-13, -9.527615e-12, -6.422681e-12, 2.036347e-18, 3.173394e-18)
BAND04_SUN_X_DEN_COEF = (2.015935e-07, 0.000000e+00, -3.449525e-12, -1.887940e-07, -1.546862e-11,
-5.548327e-12, 9.448975e-12, -4.101671e-17, -6.002537e-18)
BAND04_SUN_Y_NUM_COEF = (5.161550e-05, 3.269401e-06, 9.964343e-07, -4.150888e-14, 6.082506e-08,

-1.743615e-11, 1.390925e-11, -6.059737e-12, -3.186930e-17, 6.611345e-18)
BAND04_SUN_Y_DEN_COEF = (-3.614855e-06, 1.529263e-06, -4.646981e-11, -9.418754e-08, -2.217419e-12,
0.000000e+00, 1.815236e-11, 2.626669e-16, -4.114884e-16)
BAND04_SUN_Z_NUM_COEF = (5.985912e-05, -2.432454e-06, 2.394572e-06, -4.304460e-14, 1.437473e-07,
-2.652869e-11, 1.841744e-11, -7.654712e-12, -7.439848e-17, -1.947577e-17)
BAND04_SUN_Z_DEN_COEF = (7.706825e-06, 0.000000e+00, -9.760088e-11, 4.222447e-07, -7.421167e-12,
1.885629e-11, -6.659214e-13, -1.885183e-16, -1.931904e-16)
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 = (3459.976, 949.284)
BAND04_SCA01_LINE_NUM_COEF = (5.240737e-02, 1.019242e+00, -1.966916e-01, 2.007209e-04, -1.047935e-05)
BAND04_SCA01_LINE_DEN_COEF = (5.472855e-08, -9.613362e-06, -1.057781e-09, -4.659055e-12)
BAND04_SCA01_SAMP_NUM_COEF = (2.243309e-01, 2.266158e-01, 9.939031e-01, -4.622595e-03, 4.281712e-07)
BAND04_SCA01_SAMP_DEN_COEF = (-1.161426e-06, -7.412440e-06, -1.538227e-06, -6.934005e-12)
BAND04_SCA02_MEAN_HEIGHT = 3500.000
BAND04_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA02_MEAN_L1T_LINE_SAMP = (3167.247, 1484.894)
BAND04_SCA02_LINE_NUM_COEF = (2.200205e-02, 1.017345e+00, -2.056609e-01, -3.982555e-04, -6.459663e-06)
BAND04_SCA02_LINE_DEN_COEF = (1.864504e-08, -5.980369e-06, -1.075404e-10, -4.558005e-12)
BAND04_SCA02_SAMP_NUM_COEF = (2.514441e-01, 2.287321e-01, 1.003132e+00, -3.926143e-03, 4.272207e-07)
BAND04_SCA02_SAMP_DEN_COEF = (-9.280008e-07, -6.355328e-06, -1.546651e-06, -6.520284e-12)
BAND04_SCA03_MEAN_HEIGHT = 3500.000
BAND04_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA03_MEAN_L1T_LINE_SAMP = (3654.115, 1841.453)
BAND04_SCA03_LINE_NUM_COEF = (2.115496e-02, 1.017087e+00, -2.069238e-01, 2.684592e-04, -7.688004e-06)
BAND04_SCA03_LINE_DEN_COEF = (2.871895e-08, -7.083995e-06, -1.049165e-09, -4.522176e-12)
BAND04_SCA03_SAMP_NUM_COEF = (2.800714e-01, 2.291836e-01, 1.005728e+00, -3.197362e-03, 4.372367e-07)
BAND04_SCA03_SAMP_DEN_COEF = (-7.478417e-07, -5.597411e-06, -1.552654e-06, -6.280703e-12)
BAND04_SCA04_MEAN_HEIGHT = 3500.000
BAND04_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA04_MEAN_L1T_LINE_SAMP = (3363.274, 2371.767)
BAND04_SCA04_LINE_NUM_COEF = (8.668035e-03, 1.015437e+00, -2.147972e-01, -3.489608e-04, -7.515602e-06)
BAND04_SCA04_LINE_DEN_COEF = (2.746471e-08, -6.914302e-06, -9.853561e-11, -4.455789e-12)
BAND04_SCA04_SAMP_NUM_COEF = (3.127542e-01, 2.308240e-01, 1.012860e+00, -2.482168e-03, 4.353302e-07)
BAND04_SCA04_SAMP_DEN_COEF = (-4.456195e-07, -4.238059e-06, -1.559363e-06, -5.727147e-12)
BAND04_SCA05_MEAN_HEIGHT = 3500.000
BAND04_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA05_MEAN_L1T_LINE_SAMP = (3849.462, 2724.308)
BAND04_SCA05_LINE_NUM_COEF = (2.356305e-02, 1.014850e+00, -2.175165e-01, 3.118579e-04, -1.206614e-05)
BAND04_SCA05_LINE_DEN_COEF = (7.162355e-08, -1.098868e-05, -1.389856e-09, -4.399746e-12)
BAND04_SCA05_SAMP_NUM_COEF = (3.441785e-01, 2.308283e-01, 1.013491e+00, -1.746616e-03, 4.445815e-07)
BAND04_SCA05_SAMP_DEN_COEF = (-2.286960e-07, -3.317202e-06, -1.563408e-06, -5.417175e-12)
BAND04_SCA06_MEAN_HEIGHT = 3500.000
BAND04_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA06_MEAN_L1T_LINE_SAMP = (3560.698, 3251.358)
BAND04_SCA06_LINE_NUM_COEF = (-4.355410e-03, 1.013563e+00, -2.237952e-01, -3.217219e-04, -8.504045e-06)
BAND04_SCA06_LINE_DEN_COEF = (3.642269e-08, -7.784008e-06, -7.641712e-11, -4.348416e-12)
BAND04_SCA06_SAMP_NUM_COEF = (3.819162e-01, 2.319292e-01, 1.018247e+00, -1.017978e-03, 4.416075e-07)
BAND04_SCA06_SAMP_DEN_COEF = (1.368827e-07, -1.679263e-06, -1.567206e-06, -4.725997e-12)
BAND04_SCA07_MEAN_HEIGHT = 3500.000
BAND04_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND04_SCA07_MEAN_L1T_LINE_SAMP = (4047.044, 3601.804)
BAND04_SCA07_LINE_NUM_COEF = (-1.465031e-03, 1.012632e+00, -2.280404e-01, 3.301207e-04, -1.048145e-05)
BAND04_SCA07_LINE_DEN_COEF = (5.644903e-08, -9.545803e-06, -1.327094e-09, -4.273844e-12)
BAND04_SCA07_SAMP_NUM_COEF = (4.181505e-01, 2.313861e-01, 1.016471e+00, -2.807090e-04, 4.498606e-07)
BAND04_SCA07_SAMP_DEN_COEF = (4.086188e-07, -5.158206e-07, -1.568554e-06, -4.306481e-12)
BAND04_SCA08_MEAN_HEIGHT = 3500.000
BAND04_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA08_MEAN_L1T_LINE_SAMP = (3759.705, 4127.934)
BAND04_SCA08_LINE_NUM_COEF = (-3.429303e-02, 1.011653e+00, -2.329582e-01, -3.169467e-04, -5.992418e-06)
BAND04_SCA08_LINE_DEN_COEF = (8.951102e-09, -5.525885e-06, -2.445809e-10, -4.258855e-12)
BAND04_SCA08_SAMP_NUM_COEF = (4.539849e-01, 2.319952e-01, 1.019057e+00, 4.549751e-04, 4.459060e-07)
BAND04_SCA08_SAMP_DEN_COEF = (7.686511e-07, 1.098299e-06, -1.568409e-06, -3.613816e-12)
BAND04_SCA09_MEAN_HEIGHT = 3500.000
BAND04_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA09_MEAN_L1T_LINE_SAMP = (4247.860, 4477.791)
BAND04_SCA09_LINE_NUM_COEF = (-2.119966e-02, 1.010370e+00, -2.387669e-01, 3.235544e-04, -9.974297e-06)
BAND04_SCA09_LINE_DEN_COEF = (5.159015e-08, -9.070003e-06, -1.278208e-09, -4.150370e-12)
BAND04_SCA09_SAMP_NUM_COEF = (4.837273e-01, 2.309608e-01, 1.015117e+00, 1.187379e-03, 4.532416e-07)
BAND04_SCA09_SAMP_DEN_COEF = (9.862480e-07, 2.025698e-06, -1.566785e-06, -3.295174e-12)
BAND04_SCA10_MEAN_HEIGHT = 3500.000
BAND04_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA10_MEAN_L1T_LINE_SAMP = (3961.720, 5004.940)
BAND04_SCA10_LINE_NUM_COEF = (-3.520383e-02, 1.009710e+00, -2.422816e-01, -3.343976e-04, -9.176393e-06)
BAND04_SCA10_LINE_DEN_COEF = (4.244338e-08, -8.349320e-06, -1.011535e-11, -4.124325e-12)
BAND04_SCA10_SAMP_NUM_COEF = (5.031716e-01, 2.310575e-01, 1.015442e+00, 1.923967e-03, 4.482685e-07)
BAND04_SCA10_SAMP_DEN_COEF = (1.203022e-06, 3.010760e-06, -1.564090e-06, -2.865461e-12)
BAND04_SCA11_MEAN_HEIGHT = 3500.000
BAND04_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA11_MEAN_L1T_LINE_SAMP = (4452.473, 5356.113)
BAND04_SCA11_LINE_NUM_COEF = (-4.338268e-02, 1.008099e+00, -2.495516e-01, 2.911136e-04, -8.994554e-06)
BAND04_SCA11_LINE_DEN_COEF = (4.086151e-08, -8.176191e-06, -1.153790e-09, -4.037769e-12)
BAND04_SCA11_SAMP_NUM_COEF = (5.445114e-01, 2.295215e-01, 1.009290e+00, 2.645586e-03, 4.546232e-07)
BAND04_SCA11_SAMP_DEN_COEF = (1.530884e-06, 4.424263e-06, -1.558899e-06, -2.330464e-12)
BAND04_SCA12_MEAN_HEIGHT = 3500.000
BAND04_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA12_MEAN_L1T_LINE_SAMP = (4167.481, 5886.694)
BAND04_SCA12_LINE_NUM_COEF = (-6.780060e-02, 1.007853e+00, -2.512404e-01, -3.734162e-04, -6.247380e-06)
BAND04_SCA12_LINE_DEN_COEF = (8.317839e-09, -5.729047e-06, -1.574713e-10, -4.062302e-12)
BAND04_SCA12_SAMP_NUM_COEF = (5.546569e-01, 2.291269e-01, 1.007447e+00, 3.377771e-03, 4.486784e-07)
BAND04_SCA12_SAMP_DEN_COEF = (1.667235e-06, 5.055937e-06, -1.554640e-06, -2.038004e-12)
BAND04_SCA13_MEAN_HEIGHT = 3500.000
BAND04_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA13_MEAN_L1T_LINE_SAMP = (4662.122, 6240.934)
BAND04_SCA13_LINE_NUM_COEF = (-4.646234e-02, 1.005881e+00, -2.601174e-01, 2.336849e-04, -1.134006e-05)
BAND04_SCA13_LINE_DEN_COEF = (6.848299e-08, -1.023616e-05, -1.158272e-09, -3.880818e-12)
BAND04_SCA13_SAMP_NUM_COEF = (6.186491e-01, 2.271039e-01, 9.991438e-01, 4.082740e-03, 4.540461e-07)
BAND04_SCA13_SAMP_DEN_COEF = (2.200213e-06, 7.373306e-06, -1.542628e-06, -1.094135e-12)
BAND04_SCA14_MEAN_HEIGHT = 3500.000
BAND04_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND04_SCA14_MEAN_L1T_LINE_SAMP = (4378.331, 6776.501)
BAND04_SCA14_LINE_NUM_COEF = (-6.689786e-02, 1.005985e+00, -2.602699e-01, -4.342032e-04, -9.316819e-06)
BAND04_SCA14_LINE_DEN_COEF = (4.294189e-08, -8.438644e-06, 1.853458e-10, -3.910385e-12)

BAND04_SCA14_SAMP_NUM_COEF = (6.127791e-01, 2.262127e-01, 9.951070e-01, 4.803659e-03, 4.471252e-07)
 BAND04_SCA14_SAMP_DEN_COEF = (2.193538e-06, 7.375777e-06, -1.538711e-06, -1.071969e-12)
 END_GROUP = RPC_BAND04
 GROUP = RPC_BAND05
 BAND05_NUMBER_OF_SCAS = 14
 BAND05_NUM_L1T_LINES = 7801
 BAND05_NUM_L1T_SAMPS = 7711
 BAND05_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
 BAND05_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
 BAND05_NUM_L1R_LINES = 7501
 BAND05_NUM_L1R_SAMPS = 494
 BAND05_PIXEL_SIZE = 30.000
 BAND05_START_TIME = 10.541992
 BAND05_LINE_TIME = 0.004236000
 BAND05_MEAN_HEIGHT = 3500.000
 BAND05_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
 BAND05_MEAN_L1T_LINE_SAMP = (3909.356, 3863.992)
 BAND05_MEAN_SAT_VECTOR = (-0.002373931, 0.000757034, 0.996294069)
 BAND05_SAT_X_NUM_COEF = (1.387401e-05, -2.814295e-07, -4.710027e-05, -3.157590e-09, -9.804914e-06,
 1.352510e-11, 4.067242e-11, 9.503251e-12, 5.027324e-16, 4.335484e-17)
 BAND05_SAT_X_DEN_COEF = (-2.945455e-06, 0.000000e+00, -1.402660e-06, 2.140612e-06, 3.694378e-11,
 4.306550e-10, 9.532985e-10, -2.051728e-16, -8.287521e-18)
 BAND05_SAT_Y_NUM_COEF = (3.108070e-04, 4.711916e-05, -2.863222e-07, 1.038973e-09, -4.430283e-05,
 -9.091136e-13, -2.565197e-11, -9.528298e-11, -1.175330e-16, -1.953339e-17)
 BAND05_SAT_Y_DEN_COEF = (1.099343e-07, -3.828445e-07, -1.403886e-06, 0.000000e+00, 3.212888e-11,
 5.465493e-10, 9.421690e-10, -1.138027e-16, -2.455951e-17)
 BAND05_SAT_Z_NUM_COEF = (3.670786e-03, -5.092454e-08, -1.100732e-07, -1.035999e-08, 2.504335e-08,
 -5.441622e-11, -4.779798e-10, -1.049568e-09, 1.741168e-16, 5.447203e-20)
 BAND05_SAT_Z_DEN_COEF = (-3.828127e-06, 1.097786e-06, -2.821882e-06, 4.029824e-06, 7.431302e-11,
 6.357668e-10, 1.396117e-09, 1.336682e-16, 6.447464e-17)
 BAND05_MEAN_SUN_VECTOR = (0.506088453, 0.517358496, 0.689970336)
 BAND05_SUN_X_NUM_COEF = (1.969392e-05, -2.566697e-08, -4.283575e-06, -9.990640e-16, -2.581157e-07,
 -2.268170e-13, -9.529719e-12, -6.422661e-12, 2.033341e-18, 3.176376e-18)
 BAND05_SUN_X_DEN_COEF = (2.020813e-07, 0.000000e+00, -3.492832e-12, -1.887834e-07, -1.546447e-11,
 -5.549292e-12, 9.444580e-12, -4.108284e-17, -6.001787e-18)
 BAND05_SUN_Y_NUM_COEF = (5.143035e-05, 3.269392e-06, 9.964402e-07, -3.995309e-14, 6.082814e-08,
 -1.796870e-11, 1.304203e-11, -6.266098e-12, -3.313186e-17, 6.758894e-18)
 BAND05_SUN_Y_DEN_COEF = (-3.777599e-06, 1.317628e-06, -4.393480e-11, -9.250850e-08, -2.508527e-12,
 0.000000e+00, 1.917096e-11, 1.940069e-16, -3.121462e-16)
 BAND05_SUN_Z_NUM_COEF = (5.979026e-05, -2.432647e-06, 2.394634e-06, -2.474332e-13, 1.435313e-07,
 -8.268463e-12, -5.765582e-13, -7.530582e-12, 1.478980e-17, 2.640950e-18)
 BAND05_SUN_Z_DEN_COEF = (0.000000e+00, 0.000000e+00, 1.707518e-11, 1.567859e-07, 5.746118e-14,
 -5.474664e-12, 7.455500e-12, -3.411533e-16, -6.955080e-16)
 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 = (3431.525, 955.746)
 BAND05_SCA01_LINE_NUM_COEF = (5.013244e-02, 1.019208e+00, -1.968616e-01, 1.539650e-04, -1.001207e-05)
 BAND05_SCA01_LINE_DEN_COEF = (5.057967e-08, -9.192180e-06, -9.439110e-10, -4.655564e-12)
 BAND05_SCA01_SAMP_NUM_COEF = (2.237989e-01, 2.266644e-01, 9.940917e-01, -4.623515e-03, 4.277538e-07)
 BAND05_SCA01_SAMP_DEN_COEF = (-1.163544e-06, -7.419299e-06, -1.538197e-06, -6.932955e-12)
 BAND05_SCA02_MEAN_HEIGHT = 3500.000

BAND05_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA02_MEAN_L1T_LINE_SAMP = (3195.551, 1478.405)
BAND05_SCA02_LINE_NUM_COEF = (2.381356e-02, 1.017374e+00, -2.055121e-01, -3.515207e-04, -6.814759e-06)
BAND05_SCA02_LINE_DEN_COEF = (2.195664e-08, -6.299721e-06, -1.438016e-10, -4.559275e-12)
BAND05_SCA02_SAMP_NUM_COEF = (2.507325e-01, 2.286768e-01, 1.002914e+00, -3.925327e-03, 4.276297e-07)
BAND05_SCA02_SAMP_DEN_COEF = (-9.371657e-07, -6.397916e-06, -1.546477e-06, -6.542204e-12)
BAND05_SCA03_MEAN_HEIGHT = 3500.000
BAND05_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA03_MEAN_L1T_LINE_SAMP = (3625.773, 1847.900)
BAND05_SCA03_LINE_NUM_COEF = (1.954085e-02, 1.017061e+00, -2.070551e-01, 2.215255e-04, -7.373494e-06)
BAND05_SCA03_LINE_DEN_COEF = (2.577524e-08, -6.801178e-06, -9.619247e-10, -4.521365e-12)
BAND05_SCA03_SAMP_NUM_COEF = (2.791429e-01, 2.292293e-01, 1.005904e+00, -3.197942e-03, 4.368076e-07)
BAND05_SCA03_SAMP_DEN_COEF = (-7.533979e-07, -5.619404e-06, -1.552588e-06, -6.286639e-12)
BAND05_SCA04_MEAN_HEIGHT = 3500.000
BAND05_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA04_MEAN_L1T_LINE_SAMP = (3391.486, 2365.302)
BAND05_SCA04_LINE_NUM_COEF = (9.058515e-03, 1.015462e+00, -2.146701e-01, -3.021178e-04, -7.564136e-06)
BAND05_SCA04_LINE_DEN_COEF = (2.790183e-08, -6.958181e-06, -1.669260e-10, -4.455586e-12)
BAND05_SCA04_SAMP_NUM_COEF = (3.103232e-01, 2.307715e-01, 1.012654e+00, -2.481702e-03, 4.357496e-07)
BAND05_SCA04_SAMP_DEN_COEF = (-4.709356e-07, -4.351495e-06, -1.559078e-06, -5.778973e-12)
BAND05_SCA05_MEAN_HEIGHT = 3500.000
BAND05_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA05_MEAN_L1T_LINE_SAMP = (3821.216, 2730.744)
BAND05_SCA05_LINE_NUM_COEF = (1.959324e-02, 1.014838e+00, -2.175891e-01, 2.647996e-04, -1.126216e-05)
BAND05_SCA05_LINE_DEN_COEF = (6.365839e-08, -1.026811e-05, -1.232333e-09, -4.400864e-12)
BAND05_SCA05_SAMP_NUM_COEF = (3.446036e-01, 2.308782e-01, 1.013685e+00, -1.746951e-03, 4.441559e-07)
BAND05_SCA05_SAMP_DEN_COEF = (-2.217535e-07, -3.284385e-06, -1.563468e-06, -5.399450e-12)
BAND05_SCA06_MEAN_HEIGHT = 3500.000
BAND05_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA06_MEAN_L1T_LINE_SAMP = (3588.857, 3244.926)
BAND05_SCA06_LINE_NUM_COEF = (-5.866642e-03, 1.013573e+00, -2.237343e-01, -2.747197e-04, -8.162258e-06)
BAND05_SCA06_LINE_DEN_COEF = (3.289536e-08, -7.478593e-06, -1.760450e-10, -4.349001e-12)
BAND05_SCA06_SAMP_NUM_COEF = (3.805989e-01, 2.318776e-01, 1.018045e+00, -1.017791e-03, 4.420325e-07)
BAND05_SCA06_SAMP_DEN_COEF = (1.215728e-07, -1.748769e-06, -1.567129e-06, -4.758854e-12)
BAND05_SCA07_MEAN_HEIGHT = 3500.000
BAND05_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA07_MEAN_L1T_LINE_SAMP = (4018.817, 3608.242)
BAND05_SCA07_LINE_NUM_COEF = (-2.954826e-03, 1.012633e+00, -2.280535e-01, 2.829624e-04, -1.020711e-05)
BAND05_SCA07_LINE_DEN_COEF = (5.360356e-08, -9.300435e-06, -1.211769e-09, -4.275964e-12)
BAND05_SCA07_SAMP_NUM_COEF = (4.170384e-01, 2.314363e-01, 1.016666e+00, -2.807461e-04, 4.494323e-07)
BAND05_SCA07_SAMP_DEN_COEF = (4.015284e-07, -5.446944e-07, -1.568550e-06, -4.316434e-12)
BAND05_SCA08_MEAN_HEIGHT = 3500.000
BAND05_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA08_MEAN_L1T_LINE_SAMP = (3787.850, 4121.523)
BAND05_SCA08_LINE_NUM_COEF = (-3.547652e-02, 1.011642e+00, -2.329931e-01, -2.699217e-04, -5.734502e-06)
BAND05_SCA08_LINE_DEN_COEF = (6.202000e-09, -5.295828e-06, -3.154892e-10, -4.259330e-12)
BAND05_SCA08_SAMP_NUM_COEF = (4.548560e-01, 2.319430e-01, 1.018853e+00, 4.548841e-04, 4.463319e-07)
BAND05_SCA08_SAMP_DEN_COEF = (7.734616e-07, 1.117201e-06, -1.568392e-06, -3.608252e-12)
BAND05_SCA09_MEAN_HEIGHT = 3500.000
BAND05_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA09_MEAN_L1T_LINE_SAMP = (4219.601, 4484.244)
BAND05_SCA09_LINE_NUM_COEF = (-2.171980e-02, 1.010386e+00, -2.387124e-01, 2.763844e-04, -9.896594e-06)

BAND05_SCA09_LINE_DEN_COEF = (5.073383e-08, -9.000664e-06, -1.179134e-09, -4.152271e-12)
BAND05_SCA09_SAMP_NUM_COEF = (4.825480e-01, 2.310121e-01, 1.015317e+00, 1.187648e-03, 4.528135e-07)
BAND05_SCA09_SAMP_DEN_COEF = (9.786694e-07, 1.994611e-06, -1.566826e-06, -3.306478e-12)
BAND05_SCA10_MEAN_HEIGHT = 3500.000
BAND05_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA10_MEAN_L1T_LINE_SAMP = (3989.898, 4998.517)
BAND05_SCA10_LINE_NUM_COEF = (-3.350915e-02, 1.009688e+00, -2.423607e-01, -2.874413e-04, -9.478953e-06)
BAND05_SCA10_LINE_DEN_COEF = (4.580634e-08, -8.618784e-06, -7.942248e-11, -4.119450e-12)
BAND05_SCA10_SAMP_NUM_COEF = (4.995838e-01, 2.310091e-01, 1.015255e+00, 1.923603e-03, 4.487028e-07)
BAND05_SCA10_SAMP_DEN_COEF = (1.166528e-06, 2.848182e-06, -1.564390e-06, -2.939633e-12)
BAND05_SCA11_MEAN_HEIGHT = 3500.000
BAND05_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA11_MEAN_L1T_LINE_SAMP = (4424.154, 5362.590)
BAND05_SCA11_LINE_NUM_COEF = (-4.487066e-02, 1.008123e+00, -2.494584e-01, 2.440013e-04, -8.741049e-06)
BAND05_SCA11_LINE_DEN_COEF = (3.795900e-08, -7.950792e-06, -1.056148e-09, -4.042380e-12)
BAND05_SCA11_SAMP_NUM_COEF = (5.442754e-01, 2.295711e-01, 1.009483e+00, 2.646147e-03, 4.541919e-07)
BAND05_SCA11_SAMP_DEN_COEF = (1.532133e-06, 4.431928e-06, -1.558883e-06, -2.325130e-12)
BAND05_SCA12_MEAN_HEIGHT = 3500.000
BAND05_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA12_MEAN_L1T_LINE_SAMP = (4195.762, 5880.266)
BAND05_SCA12_LINE_NUM_COEF = (-6.943150e-02, 1.007827e+00, -2.513406e-01, -3.264438e-04, -5.936218e-06)
BAND05_SCA12_LINE_DEN_COEF = (4.761012e-09, -5.452589e-06, -2.368326e-10, -4.065453e-12)
BAND05_SCA12_SAMP_NUM_COEF = (5.532224e-01, 2.290782e-01, 1.007259e+00, 3.377147e-03, 4.491118e-07)
BAND05_SCA12_SAMP_DEN_COEF = (1.650663e-06, 4.980911e-06, -1.554884e-06, -2.073048e-12)
BAND05_SCA13_MEAN_HEIGHT = 3500.000
BAND05_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA13_MEAN_L1T_LINE_SAMP = (4633.745, 6247.434)
BAND05_SCA13_LINE_NUM_COEF = (-5.062349e-02, 1.005906e+00, -2.600219e-01, 1.865925e-04, -1.064268e-05)
BAND05_SCA13_LINE_DEN_COEF = (6.019715e-08, -9.617703e-06, -1.024954e-09, -3.893502e-12)
BAND05_SCA13_SAMP_NUM_COEF = (6.185144e-01, 2.271523e-01, 9.993308e-01, 4.083581e-03, 4.536145e-07)
BAND05_SCA13_SAMP_DEN_COEF = (2.202497e-06, 7.385465e-06, -1.542582e-06, -1.088292e-12)
BAND05_SCA14_MEAN_HEIGHT = 3500.000
BAND05_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND05_SCA14_MEAN_L1T_LINE_SAMP = (4406.747, 6770.051)
BAND05_SCA14_LINE_NUM_COEF = (-6.356267e-02, 1.005946e+00, -2.604281e-01, -3.874166e-04, -9.870229e-06)
BAND05_SCA14_LINE_DEN_COEF = (4.954524e-08, -8.929221e-06, 1.408078e-10, -3.898337e-12)
BAND05_SCA14_SAMP_NUM_COEF = (6.138333e-01, 2.261581e-01, 9.948926e-01, 4.802629e-03, 4.475448e-07)
BAND05_SCA14_SAMP_DEN_COEF = (2.199626e-06, 7.400441e-06, -1.538585e-06, -1.062166e-12)
END_GROUP = RPC_BAND05
GROUP = RPC_BAND06
BAND06_NUMBER_OF_SCAS = 14
BAND06_NUM_L1T_LINES = 7801
BAND06_NUM_L1T_SAMPS = 7711
BAND06_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND06_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND06_NUM_L1R_LINES = 7501
BAND06_NUM_L1R_SAMPS = 494
BAND06_PIXEL_SIZE = 30.000
BAND06_START_TIME = 10.541992
BAND06_LINE_TIME = 0.004236000
BAND06_MEAN_HEIGHT = 3500.000
BAND06_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)

BAND06_MEAN_L1T_LINE_SAMP = (3909.970, 3863.877)
BAND06_MEAN_SAT_VECTOR = (-0.002364951, 0.000784642, 0.996227557)
BAND06_SAT_X_NUM_COEF = (9.376425e-06, -2.815164e-07, -4.709746e-05, -3.148919e-09, -9.804217e-06,
1.369496e-11, 4.142407e-11, 9.524788e-12, 4.953172e-16, 4.328656e-17)
BAND06_SAT_X_DEN_COEF = (-2.965800e-06, 0.000000e+00, -1.402653e-06, 2.144083e-06, 3.710606e-11,
4.305982e-10, 9.532970e-10, -2.050583e-16, -8.275335e-18)
BAND06_SAT_Y_NUM_COEF = (3.124072e-04, 4.711658e-05, -2.863950e-07, 1.078642e-09, -4.430164e-05,
-9.177020e-13, -2.566328e-11, -9.532298e-11, -3.872060e-17, -1.943937e-17)
BAND06_SAT_Y_DEN_COEF = (1.099846e-07, -3.826755e-07, -1.405090e-06, 0.000000e+00, 3.314518e-11,
5.140162e-10, 9.466357e-10, -1.809752e-16, -1.451511e-17)
BAND06_SAT_Z_NUM_COEF = (3.670642e-03, -5.229791e-08, -1.098352e-07, -1.033816e-08, 2.636938e-08,
-5.444219e-11, -4.779617e-10, -1.049519e-09, 1.732044e-16, 3.923663e-20)
BAND06_SAT_Z_DEN_COEF = (-3.823066e-06, 1.095228e-06, -2.821880e-06, 4.016706e-06, 7.629130e-11,
6.422585e-10, 1.401116e-09, 4.388367e-16, 6.457306e-17)
BAND06_MEAN_SUN_VECTOR = (0.506089167, 0.517359493, 0.689968100)
BAND06_SUN_X_NUM_COEF = (1.946156e-05, -2.566618e-08, -4.283579e-06, -6.138723e-15, -2.581153e-07,
-2.263751e-13, -9.523464e-12, -6.422758e-12, 2.026148e-18, 3.166642e-18)
BAND06_SUN_X_DEN_COEF = (2.006153e-07, 0.000000e+00, -3.264454e-12, -1.888126e-07, -1.547964e-11,
-5.550657e-12, 9.464154e-12, -4.075816e-17, -6.024067e-18)
BAND06_SUN_Y_NUM_COEF = (5.236541e-05, 3.269422e-06, 9.964201e-07, -2.953728e-14, 6.082015e-08,
-1.537233e-11, 1.739860e-11, -5.220249e-12, -2.727814e-17, 5.981428e-18)
BAND06_SUN_Y_DEN_COEF = (-2.984013e-06, 2.387636e-06, -5.634177e-11, -1.007250e-07, -1.130186e-12,
0.000000e+00, 1.410786e-11, 5.369273e-16, -8.065273e-16)
BAND06_SUN_Z_NUM_COEF = (6.023582e-05, -2.432377e-06, 2.394490e-06, -7.156585e-14, 1.436705e-07,
-2.800796e-11, 1.996266e-11, -7.669590e-12, -5.928775e-17, -1.507629e-17)
BAND06_SUN_Z_DEN_COEF = (8.330690e-06, 0.000000e+00, -9.579849e-11, 4.475557e-07, -1.311929e-11,
9.402503e-12, -4.378526e-12, -2.654451e-16, -3.322854e-16)
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 = (3558.358, 926.748)
BAND06_SCA01_LINE_NUM_COEF = (5.120108e-02, 1.019391e+00, -1.959706e-01, 3.618622e-04, -1.007345e-05)
BAND06_SCA01_LINE_DEN_COEF = (5.077120e-08, -9.250151e-06, -1.370659e-09, -4.657748e-12)
BAND06_SCA01_SAMP_NUM_COEF = (2.257857e-01, 2.264324e-01, 9.931825e-01, -4.619404e-03, 4.295836e-07)
BAND06_SCA01_SAMP_DEN_COEF = (-1.157193e-06, -7.402288e-06, -1.538266e-06, -6.941459e-12)
BAND06_SCA02_MEAN_HEIGHT = 3500.000
BAND06_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA02_MEAN_L1T_LINE_SAMP = (3070.219, 1507.100)
BAND06_SCA02_LINE_NUM_COEF = (1.923362e-02, 1.017238e+00, -2.061945e-01, -5.583721e-04, -5.986981e-06)
BAND06_SCA02_LINE_DEN_COEF = (1.430585e-08, -5.554528e-06, 4.960263e-11, -4.556981e-12)
BAND06_SCA02_SAMP_NUM_COEF = (2.547872e-01, 2.288758e-01, 1.003679e+00, -3.928230e-03, 4.257324e-07)
BAND06_SCA02_SAMP_DEN_COEF = (-8.872490e-07, -6.168420e-06, -1.547407e-06, -6.428413e-12)
BAND06_SCA03_MEAN_HEIGHT = 3500.000
BAND06_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA03_MEAN_L1T_LINE_SAMP = (3752.055, 1819.045)
BAND06_SCA03_LINE_NUM_COEF = (2.365296e-02, 1.017154e+00, -2.065654e-01, 4.310023e-04, -8.108819e-06)
BAND06_SCA03_LINE_DEN_COEF = (3.258575e-08, -7.463132e-06, -1.339224e-09, -4.521995e-12)
BAND06_SCA03_SAMP_NUM_COEF = (2.777817e-01, 2.289825e-01, 1.004931e+00, -3.194957e-03, 4.386358e-07)
BAND06_SCA03_SAMP_DEN_COEF = (-7.779546e-07, -5.737826e-06, -1.552197e-06, -6.356119e-12)
BAND06_SCA04_MEAN_HEIGHT = 3500.000
BAND06_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA04_MEAN_L1T_LINE_SAMP = (3266.554, 2393.833)

BAND06_SCA04_LINE_NUM_COEF = (3.751199e-03, 1.015357e+00, -2.152106e-01, -5.095705e-04, -6.587106e-06)
BAND06_SCA04_LINE_DEN_COEF = (1.843823e-08, -6.080916e-06, 5.090466e-11, -4.456610e-12)
BAND06_SCA04_SAMP_NUM_COEF = (3.133310e-01, 2.309793e-01, 1.013457e+00, -2.483651e-03, 4.338442e-07)
BAND06_SCA04_SAMP_DEN_COEF = (-4.297604e-07, -4.160438e-06, -1.559581e-06, -5.683430e-12)
BAND06_SCA05_MEAN_HEIGHT = 3500.000
BAND06_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA05_MEAN_L1T_LINE_SAMP = (3947.271, 2701.968)
BAND06_SCA05_LINE_NUM_COEF = (2.111891e-02, 1.014886e+00, -2.172972e-01, 4.749229e-04, -1.144166e-05)
BAND06_SCA05_LINE_DEN_COEF = (6.527888e-08, -1.043048e-05, -1.727523e-09, -4.398836e-12)
BAND06_SCA05_SAMP_NUM_COEF = (3.491283e-01, 2.306218e-01, 1.012672e+00, -1.745303e-03, 4.459883e-07)
BAND06_SCA05_SAMP_DEN_COEF = (-1.928690e-07, -3.167973e-06, -1.563651e-06, -5.363482e-12)
BAND06_SCA06_MEAN_HEIGHT = 3500.000
BAND06_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA06_MEAN_L1T_LINE_SAMP = (3463.947, 3273.563)
BAND06_SCA06_LINE_NUM_COEF = (-9.447084e-03, 1.013526e+00, -2.240173e-01, -4.832149e-04, -7.551803e-06)
BAND06_SCA06_LINE_DEN_COEF = (2.675466e-08, -6.931354e-06, 1.086761e-10, -4.353881e-12)
BAND06_SCA06_SAMP_NUM_COEF = (3.853650e-01, 2.320742e-01, 1.018798e+00, -1.018308e-03, 4.400844e-07)
BAND06_SCA06_SAMP_DEN_COEF = (1.801583e-07, -1.481420e-06, -1.567433e-06, -4.631606e-12)
BAND06_SCA07_MEAN_HEIGHT = 3500.000
BAND06_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA07_MEAN_L1T_LINE_SAMP = (4144.823, 3579.546)
BAND06_SCA07_LINE_NUM_COEF = (-4.240034e-03, 1.012615e+00, -2.280579e-01, 4.935053e-04, -9.827574e-06)
BAND06_SCA07_LINE_DEN_COEF = (4.960570e-08, -8.962135e-06, -1.607676e-09, -4.273807e-12)
BAND06_SCA07_SAMP_NUM_COEF = (4.207443e-01, 2.311964e-01, 1.015725e+00, -2.804975e-04, 4.513117e-07)
BAND06_SCA07_SAMP_DEN_COEF = (4.218305e-07, -4.656544e-07, -1.568554e-06, -4.294945e-12)
BAND06_SCA08_MEAN_HEIGHT = 3500.000
BAND06_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA08_MEAN_L1T_LINE_SAMP = (3663.203, 4150.029)
BAND06_SCA08_LINE_NUM_COEF = (-3.232316e-02, 1.011651e+00, -2.330255e-01, -4.783046e-04, -6.470754e-06)
BAND06_SCA08_LINE_DEN_COEF = (1.408951e-08, -5.952110e-06, -3.279741e-12, -4.258222e-12)
BAND06_SCA08_SAMP_NUM_COEF = (4.505866e-01, 2.321373e-01, 1.019595e+00, 4.553925e-04, 4.443732e-07)
BAND06_SCA08_SAMP_DEN_COEF = (7.489281e-07, 1.019314e-06, -1.568473e-06, -3.641859e-12)
BAND06_SCA09_MEAN_HEIGHT = 3500.000
BAND06_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA09_MEAN_L1T_LINE_SAMP = (4345.738, 4455.552)
BAND06_SCA09_LINE_NUM_COEF = (-1.601095e-02, 1.010324e+00, -2.389125e-01, 4.869319e-04, -1.089249e-05)
BAND06_SCA09_LINE_DEN_COEF = (6.162078e-08, -9.888771e-06, -1.696225e-09, -4.138665e-12)
BAND06_SCA09_SAMP_NUM_COEF = (4.866595e-01, 2.307669e-01, 1.014354e+00, 1.186538e-03, 4.546906e-07)
BAND06_SCA09_SAMP_DEN_COEF = (1.002120e-06, 2.087769e-06, -1.566698e-06, -3.275494e-12)
BAND06_SCA10_MEAN_HEIGHT = 3500.000
BAND06_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA10_MEAN_L1T_LINE_SAMP = (3865.017, 5027.145)
BAND06_SCA10_LINE_NUM_COEF = (-3.329825e-02, 1.009799e+00, -2.419416e-01, -4.954999e-04, -9.607296e-06)
BAND06_SCA10_LINE_DEN_COEF = (4.712779e-08, -8.733070e-06, 3.302656e-10, -4.125379e-12)
BAND06_SCA10_SAMP_NUM_COEF = (4.970511e-01, 2.312082e-01, 1.016017e+00, 1.925375e-03, 4.467477e-07)
BAND06_SCA10_SAMP_DEN_COEF = (1.158403e-06, 2.822216e-06, -1.564475e-06, -2.938953e-12)
BAND06_SCA11_MEAN_HEIGHT = 3500.000
BAND06_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA11_MEAN_L1T_LINE_SAMP = (4550.454, 5333.961)
BAND06_SCA11_LINE_NUM_COEF = (-4.317999e-02, 1.008000e+00, -2.499312e-01, 4.538852e-04, -8.967680e-06)
BAND06_SCA11_LINE_DEN_COEF = (4.063726e-08, -8.152238e-06, -1.445739e-09, -4.032924e-12)
BAND06_SCA11_SAMP_NUM_COEF = (5.470953e-01, 2.293247e-01, 1.008514e+00, 2.643759e-03, 4.560645e-07)

BAND06_SCA11_SAMP_DEN_COEF = (1.543091e-06, 4.470428e-06, -1.558764e-06, -2.317048e-12)
BAND06_SCA12_MEAN_HEIGHT = 3500.000
BAND06_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA12_MEAN_L1T_LINE_SAMP = (4070.620, 5908.709)
BAND06_SCA12_LINE_NUM_COEF = (-7.178161e-02, 1.007955e+00, -2.508424e-01, -5.340795e-04, -5.574248e-06)
BAND06_SCA12_LINE_DEN_COEF = (5.749806e-10, -5.130789e-06, -2.765817e-11, -4.078178e-12)
BAND06_SCA12_SAMP_NUM_COEF = (5.575291e-01, 2.292794e-01, 1.008030e+00, 3.379704e-03, 4.471652e-07)
BAND06_SCA12_SAMP_DEN_COEF = (1.705540e-06, 5.231736e-06, -1.554078e-06, -1.953728e-12)
BAND06_SCA13_MEAN_HEIGHT = 3500.000
BAND06_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA13_MEAN_L1T_LINE_SAMP = (4760.428, 6218.463)
BAND06_SCA13_LINE_NUM_COEF = (-4.318533e-02, 1.005767e+00, -2.605702e-01, 3.963412e-04, -1.183635e-05)
BAND06_SCA13_LINE_DEN_COEF = (7.451761e-08, -1.067589e-05, -1.567829e-09, -3.867851e-12)
BAND06_SCA13_SAMP_NUM_COEF = (6.179500e-01, 2.269071e-01, 9.983676e-01, 4.079372e-03, 4.554811e-07)
BAND06_SCA13_SAMP_DEN_COEF = (2.182045e-06, 7.286059e-06, -1.542974e-06, -1.137005e-12)
BAND06_SCA14_MEAN_HEIGHT = 3500.000
BAND06_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND06_SCA14_MEAN_L1T_LINE_SAMP = (4280.892, 6798.612)
BAND06_SCA14_LINE_NUM_COEF = (-6.018379e-02, 1.006144e+00, -2.596174e-01, -5.941632e-04, -1.051330e-05)
BAND06_SCA14_LINE_DEN_COEF = (5.691518e-08, -9.500313e-06, 6.265688e-10, -3.895155e-12)
BAND06_SCA14_SAMP_NUM_COEF = (6.118411e-01, 2.263474e-01, 9.956117e-01, 4.806059e-03, 4.455815e-07)
BAND06_SCA14_SAMP_DEN_COEF = (2.197363e-06, 7.399858e-06, -1.538621e-06, -1.054908e-12)
END_GROUP = RPC_BAND06
GROUP = RPC_BAND07
BAND07_NUMBER_OF_SCAS = 14
BAND07_NUM_L1T_LINES = 7801
BAND07_NUM_L1T_SAMPS = 7711
BAND07_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND07_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND07_NUM_L1R_LINES = 7501
BAND07_NUM_L1R_SAMPS = 494
BAND07_PIXEL_SIZE = 30.000
BAND07_START_TIME = 10.541992
BAND07_LINE_TIME = 0.004236000
BAND07_MEAN_HEIGHT = 3500.000
BAND07_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND07_MEAN_L1T_LINE_SAMP = (3909.947, 3863.883)
BAND07_MEAN_SAT_VECTOR = (-0.002366170, 0.000783877, 0.996245629)
BAND07_SAT_X_NUM_COEF = (1.049322e-05, -2.815053e-07, -4.709824e-05, -3.149642e-09, -9.804395e-06,
1.367970e-11, 4.135600e-11, 9.521981e-12, 4.962101e-16, 4.329370e-17)
BAND07_SAT_X_DEN_COEF = (-2.963679e-06, 0.000000e+00, -1.402653e-06, 2.143502e-06, 3.708838e-11,
4.306028e-10, 9.532991e-10, -2.051511e-16, -8.279800e-18)
BAND07_SAT_Y_NUM_COEF = (3.120441e-04, 4.711722e-05, -2.863787e-07, 1.077386e-09, -4.430196e-05,
-9.161324e-13, -2.566293e-11, -9.531892e-11, -5.845052e-17, -1.946461e-17)
BAND07_SAT_Y_DEN_COEF = (1.099790e-07, -3.826893e-07, -1.404835e-06, 0.000000e+00, 3.269480e-11,
5.217386e-10, 9.452722e-10, -1.684815e-16, -1.648712e-17)
BAND07_SAT_Z_NUM_COEF = (3.670740e-03, -5.224760e-08, -1.098461e-07, -1.034429e-08, 2.632312e-08,
-5.443537e-11, -4.779658e-10, -1.049530e-09, 1.734443e-16, 4.329301e-20)
BAND07_SAT_Z_DEN_COEF = (-3.825693e-06, 1.095806e-06, -2.821883e-06, 4.021038e-06, 7.582058e-11,
6.406907e-10, 1.399673e-09, 3.595384e-16, 6.452769e-17)
BAND07_MEAN_SUN_VECTOR = (0.506089081, 0.517359652, 0.689968298)
BAND07_SUN_X_NUM_COEF = (1.951829e-05, -2.566625e-08, -4.283579e-06, -4.737156e-15, -2.581154e-07,

-2.264388e-13, -9.524376e-12, -6.422744e-12, 2.030988e-18, 3.168305e-18)
BAND07_SUN_X_DEN_COEF = (2.008275e-07, 0.000000e+00, -3.320976e-12, -1.888091e-07, -1.547667e-11,
-5.549346e-12, 9.459783e-12, -4.084166e-17, -6.016089e-18)
BAND07_SUN_Y_NUM_COEF = (5.213056e-05, 3.269415e-06, 9.964265e-07, -3.556200e-14, 6.082085e-08,
-1.599161e-11, 1.633313e-11, -5.477818e-12, -2.862055e-17, 6.176962e-18)
BAND07_SUN_Y_DEN_COEF = (-3.173320e-06, 2.124584e-06, -5.337032e-11, -9.876911e-08, -1.451555e-12,
0.000000e+00, 1.534082e-11, 4.533546e-16, -6.864915e-16)
BAND07_SUN_Z_NUM_COEF = (6.011133e-05, -2.432398e-06, 2.394512e-06, -6.423454e-14, 1.436896e-07,
-2.761772e-11, 1.955493e-11, -7.665793e-12, -6.339049e-17, -1.623420e-17)
BAND07_SUN_Z_DEN_COEF = (8.166098e-06, 0.000000e+00, -9.621477e-11, 4.408851e-07, -1.160348e-11,
1.196328e-11, -3.369958e-12, -2.461107e-16, -2.964192e-16)
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 = (3529.927, 933.208)
BAND07_SCA01_LINE_NUM_COEF = (5.312783e-02, 1.019350e+00, -1.961718e-01, 3.152741e-04, -1.054090e-05)
BAND07_SCA01_LINE_DEN_COEF = (5.506205e-08, -9.670380e-06, -1.305147e-09, -4.660842e-12)
BAND07_SCA01_SAMP_NUM_COEF = (2.297954e-01, 2.264788e-01, 9.933616e-01, -4.620278e-03, 4.291631e-07)
BAND07_SCA01_SAMP_DEN_COEF = (-1.118199e-06, -7.228826e-06, -1.539074e-06, -6.862829e-12)
BAND07_SCA02_MEAN_HEIGHT = 3500.000
BAND07_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA02_MEAN_L1T_LINE_SAMP = (3098.534, 1500.611)
BAND07_SCA02_LINE_NUM_COEF = (2.219895e-02, 1.017265e+00, -2.060584e-01, -5.115725e-04, -6.591844e-06)
BAND07_SCA02_LINE_DEN_COEF = (1.999480e-08, -6.098132e-06, 5.488057e-11, -4.559094e-12)
BAND07_SCA02_SAMP_NUM_COEF = (2.502381e-01, 2.288266e-01, 1.003488e+00, -3.927503e-03, 4.261534e-07)
BAND07_SCA02_SAMP_DEN_COEF = (-9.316366e-07, -6.365464e-06, -1.546628e-06, -6.516067e-12)
BAND07_SCA03_MEAN_HEIGHT = 3500.000
BAND07_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA03_MEAN_L1T_LINE_SAMP = (3723.739, 1825.489)
BAND07_SCA03_LINE_NUM_COEF = (2.183076e-02, 1.017127e+00, -2.067016e-01, 3.841279e-04, -7.749512e-06)
BAND07_SCA03_LINE_DEN_COEF = (2.922701e-08, -7.140034e-06, -1.234347e-09, -4.520874e-12)
BAND07_SCA03_SAMP_NUM_COEF = (2.752283e-01, 2.290327e-01, 1.005126e+00, -3.195590e-03, 4.382163e-07)
BAND07_SCA03_SAMP_DEN_COEF = (-7.984837e-07, -5.825528e-06, -1.551921e-06, -6.390796e-12)
BAND07_SCA04_MEAN_HEIGHT = 3500.000
BAND07_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA04_MEAN_L1T_LINE_SAMP = (3294.758, 2387.373)
BAND07_SCA04_LINE_NUM_COEF = (4.917519e-03, 1.015368e+00, -2.151466e-01, -4.625868e-04, -6.803671e-06)
BAND07_SCA04_LINE_DEN_COEF = (2.055288e-08, -6.275270e-06, 8.280616e-12, -4.455701e-12)
BAND07_SCA04_SAMP_NUM_COEF = (3.165892e-01, 2.309259e-01, 1.013247e+00, -2.483177e-03, 4.342625e-07)
BAND07_SCA04_SAMP_DEN_COEF = (-4.026287e-07, -4.043733e-06, -1.559858e-06, -5.637235e-12)
BAND07_SCA05_MEAN_HEIGHT = 3500.000
BAND07_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA05_MEAN_L1T_LINE_SAMP = (3919.032, 2708.406)
BAND07_SCA05_LINE_NUM_COEF = (2.101703e-02, 1.014870e+00, -2.173888e-01, 4.278991e-04, -1.145245e-05)
BAND07_SCA05_LINE_DEN_COEF = (6.543518e-08, -1.043973e-05, -1.619771e-09, -4.398934e-12)
BAND07_SCA05_SAMP_NUM_COEF = (3.484529e-01, 2.306743e-01, 1.012877e+00, -1.745645e-03, 4.455686e-07)
BAND07_SCA05_SAMP_DEN_COEF = (-1.961241e-07, -3.179933e-06, -1.563634e-06, -5.365771e-12)
BAND07_SCA06_MEAN_HEIGHT = 3500.000
BAND07_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA06_MEAN_L1T_LINE_SAMP = (3492.106, 3267.130)
BAND07_SCA06_LINE_NUM_COEF = (-9.263305e-03, 1.013526e+00, -2.240000e-01, -4.361714e-04, -7.563090e-06)
BAND07_SCA06_LINE_DEN_COEF = (2.685741e-08, -6.941655e-06, 3.782808e-11, -4.352696e-12)

BAND07_SCA06_SAMP_NUM_COEF = (3.871500e-01, 2.320273e-01, 1.018617e+00, -1.018148e-03, 4.405190e-07)
BAND07_SCA06_SAMP_DEN_COEF = (1.934778e-07, -1.425230e-06, -1.567480e-06, -4.610526e-12)
BAND07_SCA07_MEAN_HEIGHT = 3500.000
BAND07_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA07_MEAN_L1T_LINE_SAMP = (4116.618, 3585.979)
BAND07_SCA07_LINE_NUM_COEF = (-7.133413e-03, 1.012607e+00, -2.281065e-01, 4.463967e-04, -9.271502e-06)
BAND07_SCA07_LINE_DEN_COEF = (4.383436e-08, -8.464951e-06, -1.464352e-09, -4.276856e-12)
BAND07_SCA07_SAMP_NUM_COEF = (4.187106e-01, 2.312476e-01, 1.015925e+00, -2.805313e-04, 4.508864e-07)
BAND07_SCA07_SAMP_DEN_COEF = (4.062102e-07, -5.320069e-07, -1.568539e-06, -4.322172e-12)
BAND07_SCA08_MEAN_HEIGHT = 3500.000
BAND07_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA08_MEAN_L1T_LINE_SAMP = (3691.362, 4143.604)
BAND07_SCA08_LINE_NUM_COEF = (-3.036006e-02, 1.011641e+00, -2.330502e-01, -4.312544e-04, -6.839386e-06)
BAND07_SCA08_LINE_DEN_COEF = (1.801343e-08, -6.281231e-06, -3.286155e-11, -4.254145e-12)
BAND07_SCA08_SAMP_NUM_COEF = (4.517463e-01, 2.320861e-01, 1.019395e+00, 4.552869e-04, 4.448019e-07)
BAND07_SCA08_SAMP_DEN_COEF = (7.563963e-07, 1.049885e-06, -1.568451e-06, -3.631089e-12)
BAND07_SCA09_MEAN_HEIGHT = 3500.000
BAND07_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA09_MEAN_L1T_LINE_SAMP = (4317.513, 4461.997)
BAND07_SCA09_LINE_NUM_COEF = (-1.529365e-02, 1.010335e+00, -2.388805e-01, 4.397892e-04, -1.105521e-05)
BAND07_SCA09_LINE_DEN_COEF = (6.339326e-08, -1.003369e-05, -1.607215e-09, -4.138110e-12)
BAND07_SCA09_SAMP_NUM_COEF = (4.857415e-01, 2.308193e-01, 1.014558e+00, 1.186814e-03, 4.542661e-07)
BAND07_SCA09_SAMP_DEN_COEF = (9.969286e-07, 2.067170e-06, -1.566726e-06, -3.282540e-12)
BAND07_SCA10_MEAN_HEIGHT = 3500.000
BAND07_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA10_MEAN_L1T_LINE_SAMP = (3893.216, 5020.727)
BAND07_SCA10_LINE_NUM_COEF = (-3.011512e-02, 1.009771e+00, -2.420524e-01, -4.485760e-04, -1.019597e-05)
BAND07_SCA10_LINE_DEN_COEF = (5.366152e-08, -9.257279e-06, 2.924728e-10, -4.116868e-12)
BAND07_SCA10_SAMP_NUM_COEF = (4.982261e-01, 2.311578e-01, 1.015821e+00, 1.925004e-03, 4.471789e-07)
BAND07_SCA10_SAMP_DEN_COEF = (1.165881e-06, 2.852878e-06, -1.564408e-06, -2.928428e-12)
BAND07_SCA11_MEAN_HEIGHT = 3500.000
BAND07_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA11_MEAN_L1T_LINE_SAMP = (4522.184, 5340.430)
BAND07_SCA11_LINE_NUM_COEF = (-4.266350e-02, 1.008020e+00, -2.498603e-01, 4.067881e-04, -9.081970e-06)
BAND07_SCA11_LINE_DEN_COEF = (4.192785e-08, -8.253791e-06, -1.370142e-09, -4.032531e-12)
BAND07_SCA11_SAMP_NUM_COEF = (5.478984e-01, 2.293770e-01, 1.008718e+00, 2.644356e-03, 4.556399e-07)
BAND07_SCA11_SAMP_DEN_COEF = (1.553812e-06, 4.519744e-06, -1.558638e-06, -2.293281e-12)
BAND07_SCA12_MEAN_HEIGHT = 3500.000
BAND07_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA12_MEAN_L1T_LINE_SAMP = (4098.909, 5902.279)
BAND07_SCA12_LINE_NUM_COEF = (-6.777368e-02, 1.007920e+00, -2.509834e-01, -4.872477e-04, -6.289039e-06)
BAND07_SCA12_LINE_DEN_COEF = (8.769579e-09, -5.765990e-06, -1.038616e-11, -4.065485e-12)
BAND07_SCA12_SAMP_NUM_COEF = (5.562154e-01, 2.292279e-01, 1.007829e+00, 3.379037e-03, 4.475936e-07)
BAND07_SCA12_SAMP_DEN_COEF = (1.690081e-06, 5.161613e-06, -1.554305e-06, -1.986961e-12)
BAND07_SCA13_MEAN_HEIGHT = 3500.000
BAND07_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA13_MEAN_L1T_LINE_SAMP = (4732.062, 6224.966)
BAND07_SCA13_LINE_NUM_COEF = (-4.282921e-02, 1.005798e+00, -2.604506e-01, 3.493496e-04, -1.191696e-05)
BAND07_SCA13_LINE_DEN_COEF = (7.543377e-08, -1.074747e-05, -1.461898e-09, -3.867720e-12)
BAND07_SCA13_SAMP_NUM_COEF = (6.152940e-01, 2.269600e-01, 9.985747e-01, 4.080308e-03, 4.550596e-07)
BAND07_SCA13_SAMP_DEN_COEF = (2.161417e-06, 7.197412e-06, -1.543339e-06, -1.176504e-12)
BAND07_SCA14_MEAN_HEIGHT = 3500.000

BAND07_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND07_SCA14_MEAN_L1T_LINE_SAMP = (4309.301, 6792.170)
BAND07_SCA14_LINE_NUM_COEF = (-5.827977e-02, 1.006085e+00, -2.598642e-01, -5.478124e-04, -1.082617e-05)
BAND07_SCA14_LINE_DEN_COEF = (6.070120e-08, -9.777426e-06, 5.631385e-10, -3.886579e-12)
BAND07_SCA14_SAMP_NUM_COEF = (6.111093e-01, 2.263012e-01, 9.954343e-01, 4.805222e-03, 4.460182e-07)
BAND07_SCA14_SAMP_DEN_COEF = (2.187224e-06, 7.353145e-06, -1.538839e-06, -1.078467e-12)
END_GROUP = RPC_BAND07
GROUP = RPC_BAND08
BAND08_NUMBER_OF_SCAS = 14
BAND08_NUM_L1T_LINES = 15601
BAND08_NUM_L1T_SAMPS = 15421
BAND08_L1T_IMAGE_CORNER_LINES = (16.885647, 2858.679368, 15586.407673, 12737.299597)
BAND08_L1T_IMAGE_CORNER_SAMPS = (2919.697466, 15406.378349, 12512.630570, 19.340181)
BAND08_NUM_L1R_LINES = 15002
BAND08_NUM_L1R_SAMPS = 988
BAND08_PIXEL_SIZE = 15.000
BAND08_START_TIME = 10.541992
BAND08_LINE_TIME = 0.002118000
BAND08_MEAN_HEIGHT = 3500.000
BAND08_MEAN_L1R_LINE_SAMP = (7528.774, 6937.357)
BAND08_MEAN_L1T_LINE_SAMP = (7820.847, 7727.935)
BAND08_MEAN_SAT_VECTOR = (-0.002380009, 0.000785918, 0.996318244)
BAND08_SAT_X_NUM_COEF = (1.588187e-05, -1.406953e-07, -2.355068e-05, -3.365455e-09, -4.902587e-06,
2.674056e-12, 4.768505e-12, -7.698640e-12, 6.624526e-17, 5.453444e-18)
BAND08_SAT_X_DEN_COEF = (-1.234788e-06, 4.310966e-07, -1.402737e-06, 9.732219e-07, 9.103960e-12,
1.077465e-10, 2.382692e-10, -2.562640e-17, -9.091630e-19)
BAND08_SAT_Y_NUM_COEF = (3.100805e-04, 2.356014e-05, -1.431541e-07, 1.079055e-09, -2.215168e-05,
-2.265993e-13, -6.415182e-12, -2.382240e-11, -1.753892e-17, -2.443145e-18)
BAND08_SAT_Y_DEN_COEF = (5.504730e-08, -1.904106e-07, -1.403122e-06, 0.000000e+00, 8.307202e-12,
1.395374e-10, 2.351741e-10, -8.750049e-18, -3.938885e-18)
BAND08_SAT_Z_NUM_COEF = (3.670805e-03, -2.612323e-08, -5.511835e-08, -1.036800e-08, 1.312946e-08,
-1.360116e-11, -1.194942e-10, -2.623913e-10, 2.180980e-17, 7.669503e-21)
BAND08_SAT_Z_DEN_COEF = (-1.913009e-06, 5.489807e-07, -2.821879e-06, -2.016628e-06, 1.827873e-11,
1.576565e-10, 3.477400e-10, 5.874632e-19, 8.098614e-18)
BAND08_MEAN_SUN_VECTOR = (0.506088272, 0.517362432, 0.689967922)
BAND08_SUN_X_NUM_COEF = (1.982543e-05, -1.283339e-08, -2.141792e-06, 9.070112e-16, -1.290581e-07,
-5.695446e-14, -2.386135e-12, -1.605647e-12, 2.414862e-19, 4.001530e-19)
BAND08_SUN_X_DEN_COEF = (1.027358e-07, 0.000000e+00, -3.450872e-12, -9.435083e-08, -3.858015e-12,
-1.391929e-12, 2.358145e-12, -5.161069e-18, -7.576859e-19)
BAND08_SUN_Y_NUM_COEF = (5.094083e-05, 1.634434e-06, 4.981662e-07, -2.658604e-14, 3.043222e-08,
-1.236796e-11, -1.785683e-12, -2.365684e-12, -4.088063e-18, 4.107114e-19)
BAND08_SUN_Y_DEN_COEF = (-6.705263e-06, -9.553188e-07, -3.498425e-11, 3.841988e-08, -4.483430e-12,
8.932170e-12, 0.000000e+00, 1.808008e-17, -1.359535e-17)
BAND08_SUN_Z_NUM_COEF = (5.960807e-05, -1.216273e-06, 1.197306e-06, 9.644061e-16, 7.193873e-08,
-6.776609e-12, 5.401569e-12, -2.582599e-12, -1.140839e-17, -3.225574e-18)
BAND08_SUN_Z_DEN_COEF = (3.960178e-06, -5.633537e-07, -1.007434e-10, 2.288148e-07, -9.643900e-13,
7.298417e-12, 0.000000e+00, -1.241836e-17, -1.687885e-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 = (6694.818, 1950.352)
BAND08_SCA01_LINE_NUM_COEF = (8.993696e-02, 1.019105e+00, -1.973720e-01, 2.866877e-05, -4.486432e-06)

BAND08_SCA01_LINE_DEN_COEF = (2.068677e-08, -4.127623e-06, -6.572955e-10, -1.160245e-12)
BAND08_SCA01_SAMP_NUM_COEF = (4.471943e-01, 2.268136e-01, 9.946744e-01, -9.251707e-03, 2.132733e-07)
BAND08_SCA01_SAMP_DEN_COEF = (-5.782153e-07, -3.690491e-06, -1.538387e-06, -1.726098e-12)
BAND08_SCA02_MEAN_HEIGHT = 3500.000
BAND08_SCA02_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA02_MEAN_L1T_LINE_SAMP = (6563.188, 2917.968)
BAND08_SCA02_LINE_NUM_COEF = (5.168686e-02, 1.017463e+00, -2.050665e-01, -4.216862e-04, -3.569018e-06)
BAND08_SCA02_LINE_DEN_COEF = (1.243936e-08, -3.295659e-06, -3.249329e-10, -1.138167e-12)
BAND08_SCA02_SAMP_NUM_COEF = (5.043481e-01, 2.285407e-01, 1.002391e+00, -7.845851e-03, 2.144744e-07)
BAND08_SCA02_SAMP_DEN_COEF = (-4.659511e-07, -3.191087e-06, -1.546522e-06, -1.636657e-12)
BAND08_SCA03_MEAN_HEIGHT = 3500.000
BAND08_SCA03_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA03_MEAN_L1T_LINE_SAMP = (7084.021, 3734.478)
BAND08_SCA03_LINE_NUM_COEF = (4.050602e-02, 1.016999e+00, -2.073813e-01, 1.623607e-04, -3.812061e-06)
BAND08_SCA03_LINE_DEN_COEF = (1.413008e-08, -3.512596e-06, -7.560219e-10, -1.129070e-12)
BAND08_SCA03_SAMP_NUM_COEF = (5.609802e-01, 2.293839e-01, 1.006509e+00, -6.398985e-03, 2.177962e-07)
BAND08_SCA03_SAMP_DEN_COEF = (-3.660039e-07, -2.759275e-06, -1.552922e-06, -1.557709e-12)
BAND08_SCA04_MEAN_HEIGHT = 3500.000
BAND08_SCA04_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA04_MEAN_L1T_LINE_SAMP = (6954.502, 4691.851)
BAND08_SCA04_LINE_NUM_COEF = (1.993887e-02, 1.015514e+00, -2.143903e-01, -3.217455e-04, -3.826647e-06)
BAND08_SCA04_LINE_DEN_COEF = (1.434135e-08, -3.519545e-06, -3.805491e-10, -1.111641e-12)
BAND08_SCA04_SAMP_NUM_COEF = (6.252500e-01, 2.306311e-01, 1.012113e+00, -4.960148e-03, 2.185386e-07)
BAND08_SCA04_SAMP_DEN_COEF = (-2.292038e-07, -2.151860e-06, -1.559175e-06, -1.442190e-12)
BAND08_SCA05_MEAN_HEIGHT = 3500.000
BAND08_SCA05_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA05_MEAN_L1T_LINE_SAMP = (7475.314, 5500.052)
BAND08_SCA05_LINE_NUM_COEF = (4.140901e-02, 1.014812e+00, -2.177546e-01, 2.481230e-04, -5.788704e-06)
BAND08_SCA05_LINE_DEN_COEF = (3.344975e-08, -5.274760e-06, -9.200522e-10, -1.098712e-12)
BAND08_SCA05_SAMP_NUM_COEF = (6.837509e-01, 2.310366e-01, 1.014307e+00, -3.495276e-03, 2.214669e-07)
BAND08_SCA05_SAMP_DEN_COEF = (-1.188823e-07, -1.673917e-06, -1.563374e-06, -1.354047e-12)
BAND08_SCA06_MEAN_HEIGHT = 3500.000
BAND08_SCA06_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA06_MEAN_L1T_LINE_SAMP = (7348.926, 6451.220)
BAND08_SCA06_LINE_NUM_COEF = (8.983754e-04, 1.013585e+00, -2.236302e-01, -2.663862e-04, -4.686740e-06)
BAND08_SCA06_LINE_DEN_COEF = (2.261805e-08, -4.281360e-06, -3.772152e-10, -1.083698e-12)
BAND08_SCA06_SAMP_NUM_COEF = (7.610042e-01, 2.317312e-01, 1.017479e+00, -2.033808e-03, 2.216803e-07)
BAND08_SCA06_SAMP_DEN_COEF = (5.559792e-08, -9.006793e-07, -1.567055e-06, -1.197698e-12)
BAND08_SCA07_MEAN_HEIGHT = 3500.000
BAND08_SCA07_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA07_MEAN_L1T_LINE_SAMP = (7870.706, 7254.981)
BAND08_SCA07_LINE_NUM_COEF = (-7.833567e-03, 1.012641e+00, -2.280700e-01, 2.841988e-04, -5.041997e-06)
BAND08_SCA07_LINE_DEN_COEF = (2.617763e-08, -4.594913e-06, -9.181872e-10, -1.067894e-12)
BAND08_SCA07_SAMP_NUM_COEF = (8.286006e-01, 2.315972e-01, 1.017298e+00, -5.610701e-04, 2.241032e-07)
BAND08_SCA07_SAMP_DEN_COEF = (1.926867e-07, -3.044956e-07, -1.568548e-06, -1.083914e-12)
BAND08_SCA08_MEAN_HEIGHT = 3500.000
BAND08_SCA08_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA08_MEAN_L1T_LINE_SAMP = (7746.894, 8204.426)
BAND08_SCA08_LINE_NUM_COEF = (-5.449123e-02, 1.011623e+00, -2.330270e-01, -2.566175e-04, -3.647674e-06)
BAND08_SCA08_LINE_DEN_COEF = (1.140367e-08, -3.344662e-06, -4.395270e-10, -1.059215e-12)
BAND08_SCA08_SAMP_NUM_COEF = (9.154344e-01, 2.317980e-01, 1.018293e+00, 9.098590e-04, 2.238351e-07)
BAND08_SCA08_SAMP_DEN_COEF = (3.947411e-07, 5.903705e-07, -1.568341e-06, -8.967327e-13)

BAND08_SCA09_MEAN_HEIGHT = 3500.000
BAND08_SCA09_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA09_MEAN_L1T_LINE_SAMP = (8272.209, 9007.012)
BAND08_SCA09_LINE_NUM_COEF = (-4.475366e-02, 1.010428e+00, -2.385775e-01, 2.711549e-04, -4.914745e-06)
BAND08_SCA09_LINE_DEN_COEF = (2.499292e-08, -4.470283e-06, -8.966523e-10, -1.037117e-12)
BAND08_SCA09_SAMP_NUM_COEF = (9.664130e-01, 2.311638e-01, 1.015908e+00, 2.377498e-03, 2.257826e-07)
BAND08_SCA09_SAMP_DEN_COEF = (4.970047e-07, 1.034266e-06, -1.566754e-06, -8.165134e-13)
BAND08_SCA10_MEAN_HEIGHT = 3500.000
BAND08_SCA10_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA10_MEAN_L1T_LINE_SAMP = (8151.219, 9958.360)
BAND08_SCA10_LINE_NUM_COEF = (-6.449582e-02, 1.009632e+00, -2.425596e-01, -2.918585e-04, -4.822976e-06)
BAND08_SCA10_LINE_DEN_COEF = (2.384559e-08, -4.383837e-06, -3.445395e-10, -1.026439e-12)
BAND08_SCA10_SAMP_NUM_COEF = (1.013745e+00, 2.308603e-01, 1.014679e+00, 3.845541e-03, 2.250180e-07)
BAND08_SCA10_SAMP_DEN_COEF = (6.113997e-07, 1.544381e-06, -1.563911e-06, -7.098710e-13)
BAND08_SCA11_MEAN_HEIGHT = 3500.000
BAND08_SCA11_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA11_MEAN_L1T_LINE_SAMP = (8680.988, 10763.788)
BAND08_SCA11_LINE_NUM_COEF = (-8.644747e-02, 1.008207e+00, -2.491371e-01, 2.070531e-04, -4.544678e-06)
BAND08_SCA11_LINE_DEN_COEF = (2.092548e-08, -4.130260e-06, -8.164921e-10, -1.008622e-12)
BAND08_SCA11_SAMP_NUM_COEF = (1.086772e+00, 2.297250e-01, 1.010083e+00, 5.296317e-03, 2.264738e-07)
BAND08_SCA11_SAMP_DEN_COEF = (7.665466e-07, 2.221256e-06, -1.558868e-06, -5.784109e-13)
BAND08_SCA12_MEAN_HEIGHT = 3500.000
BAND08_SCA12_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA12_MEAN_L1T_LINE_SAMP = (8563.437, 11721.755)
BAND08_SCA12_LINE_NUM_COEF = (-1.268430e-01, 1.007727e+00, -2.517379e-01, -3.708330e-04, -3.486523e-06)
BAND08_SCA12_LINE_DEN_COEF = (8.351419e-09, -3.186932e-06, -3.667696e-10, -1.009133e-12)
BAND08_SCA12_SAMP_NUM_COEF = (1.112151e+00, 2.289329e-01, 1.006698e+00, 6.751020e-03, 2.252249e-07)
BAND08_SCA12_SAMP_DEN_COEF = (8.326363e-07, 2.519265e-06, -1.554668e-06, -5.133502e-13)
BAND08_SCA13_MEAN_HEIGHT = 3500.000
BAND08_SCA13_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA13_MEAN_L1T_LINE_SAMP = (9099.473, 12533.656)
BAND08_SCA13_LINE_NUM_COEF = (-9.745719e-02, 1.006032e+00, -2.595136e-01, 9.333291e-05, -5.504984e-06)
BAND08_SCA13_LINE_DEN_COEF = (3.218879e-08, -4.972005e-06, -7.296388e-10, -9.711921e-13)
BAND08_SCA13_SAMP_NUM_COEF = (1.233103e+00, 2.273084e-01, 9.999412e-01, 8.173096e-03, 2.261891e-07)
BAND08_SCA13_SAMP_DEN_COEF = (1.096793e-06, 3.676226e-06, -1.542727e-06, -2.745225e-13)
BAND08_SCA14_MEAN_HEIGHT = 3500.000
BAND08_SCA14_MEAN_L1R_LINE_SAMP = (7528.774, 515.357)
BAND08_SCA14_MEAN_L1T_LINE_SAMP = (8986.166, 13501.184)
BAND08_SCA14_LINE_NUM_COEF = (-1.287009e-01, 1.005808e+00, -2.609914e-01, -4.940363e-04, -4.842577e-06)
BAND08_SCA14_LINE_DEN_COEF = (2.375496e-08, -4.382285e-06, -1.462649e-10, -9.718759e-13)
BAND08_SCA14_SAMP_NUM_COEF = (1.229522e+00, 2.260295e-01, 9.944051e-01, 9.601036e-03, 2.244545e-07)
BAND08_SCA14_SAMP_DEN_COEF = (1.097923e-06, 3.688659e-06, -1.538675e-06, -2.693574e-13)
END_GROUP = RPC_BAND08
GROUP = RPC_BAND09
BAND09_NUMBER_OF_SCAS = 14
BAND09_NUM_L1T_LINES = 7801
BAND09_NUM_L1T_SAMPS = 7711
BAND09_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND09_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND09_NUM_L1R_LINES = 7501
BAND09_NUM_L1R_SAMPS = 494
BAND09_PIXEL_SIZE = 30.000

BAND09_START_TIME = 10.541992
BAND09_LINE_TIME = 0.004236000
BAND09_MEAN_HEIGHT = 3500.000
BAND09_MEAN_L1R_LINE_SAMP = (3763.889, 3468.214)
BAND09_MEAN_L1T_LINE_SAMP = (3910.103, 3863.870)
BAND09_MEAN_SAT_VECTOR = (-0.002363734, 0.000790561, 0.996207514)
BAND09_SAT_X_NUM_COEF = (8.195833e-06, -2.815230e-07, -4.709662e-05, -3.148198e-09, -9.804026e-06,
1.370527e-11, 4.147003e-11, 9.526462e-12, 4.946132e-16, 4.328113e-17)
BAND09_SAT_X_DEN_COEF = (-2.967083e-06, 0.000000e+00, -1.402652e-06, 2.144328e-06, 3.711941e-11,
4.305963e-10, 9.532967e-10, -2.049764e-16, -8.270538e-18)
BAND09_SAT_Y_NUM_COEF = (3.122297e-04, 4.711593e-05, -2.864116e-07, 1.089411e-09, -4.430131e-05,
-9.055412e-13, -2.554911e-11, -9.507890e-11, -1.895485e-17, -1.941317e-17)
BAND09_SAT_Y_DEN_COEF = (0.000000e+00, -3.304021e-07, -1.405329e-06, 1.148508e-07, 3.369042e-11,
5.065833e-10, 9.484149e-10, -1.897146e-16, -3.827816e-17)
BAND09_SAT_Z_NUM_COEF = (3.670651e-03, -5.260010e-08, -1.098242e-07, -1.033176e-08, 2.665218e-08,
-5.444945e-11, -4.779570e-10, -1.049506e-09, 1.729488e-16, 3.506147e-20)
BAND09_SAT_Z_DEN_COEF = (-3.825297e-06, 1.094531e-06, -2.821877e-06, 4.016920e-06, 7.675646e-11,
6.437046e-10, 1.402235e-09, 5.239602e-16, 6.466020e-17)
BAND09_MEAN_SUN_VECTOR = (0.506089250, 0.517359679, 0.689967621)
BAND09_SUN_X_NUM_COEF = (1.940334e-05, -2.566615e-08, -4.283580e-06, -7.683917e-15, -2.581152e-07,
-2.263221e-13, -9.522719e-12, -6.422775e-12, 2.020558e-18, 3.165101e-18)
BAND09_SUN_X_DEN_COEF = (2.004383e-07, 0.000000e+00, -3.206913e-12, -1.888151e-07, -1.548259e-11,
-5.552393e-12, 9.468498e-12, -4.067025e-17, -6.033211e-18)
BAND09_SUN_Y_NUM_COEF = (5.262211e-05, 3.269574e-06, 9.964582e-07, -1.919990e-14, 6.081867e-08,
-5.614525e-12, 2.394918e-11, -4.141943e-12, -2.615477e-17, 6.475645e-18)
BAND09_SUN_Y_DEN_COEF = (0.000000e+00, 3.476456e-06, -5.972733e-11, -1.528951e-07, 3.560129e-12,
-1.042569e-11, 1.914185e-11, 5.838672e-16, -9.175596e-16)
BAND09_SUN_Z_NUM_COEF = (6.037410e-05, -2.432360e-06, 2.394470e-06, -7.825760e-14, 1.436536e-07,
-2.836409e-11, 2.033478e-11, -7.672967e-12, -5.547731e-17, -1.401942e-17)
BAND09_SUN_Z_DEN_COEF = (8.480885e-06, 0.000000e+00, -9.544156e-11, 4.536413e-07, -1.451067e-11,
7.026598e-12, -5.315380e-12, -2.821405e-16, -3.640041e-16)
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 = (3586.903, 920.240)
BAND09_SCA01_LINE_NUM_COEF = (4.527894e-02, 1.019431e+00, -1.957738e-01, 4.086810e-04, -8.714258e-06)
BAND09_SCA01_LINE_DEN_COEF = (3.847847e-08, -8.026946e-06, -1.354435e-09, -4.647742e-12)
BAND09_SCA01_SAMP_NUM_COEF = (2.060398e-01, 2.263729e-01, 9.929461e-01, -4.618276e-03, 4.299813e-07)
BAND09_SCA01_SAMP_DEN_COEF = (-1.338101e-06, -8.198250e-06, -1.534563e-06, -7.290531e-12)
BAND09_SCA02_MEAN_HEIGHT = 3500.000
BAND09_SCA02_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA02_MEAN_L1T_LINE_SAMP = (3042.029, 1513.559)
BAND09_SCA02_LINE_NUM_COEF = (3.658821e-02, 1.017164e+00, -2.065361e-01, -6.042181e-04, -9.780565e-06)
BAND09_SCA02_LINE_DEN_COEF = (5.034341e-08, -8.960774e-06, 5.667815e-10, -4.571555e-12)
BAND09_SCA02_SAMP_NUM_COEF = (2.590847e-01, 2.289347e-01, 1.003913e+00, -3.929127e-03, 4.253315e-07)
BAND09_SCA02_SAMP_DEN_COEF = (-8.453786e-07, -5.982435e-06, -1.548143e-06, -6.348717e-12)
BAND09_SCA03_MEAN_HEIGHT = 3500.000
BAND09_SCA03_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA03_MEAN_L1T_LINE_SAMP = (3780.457, 1812.571)
BAND09_SCA03_LINE_NUM_COEF = (2.348587e-02, 1.017190e+00, -2.063850e-01, 4.778911e-04, -8.033987e-06)
BAND09_SCA03_LINE_DEN_COEF = (3.181998e-08, -7.396407e-06, -1.409148e-09, -4.522145e-12)
BAND09_SCA03_SAMP_NUM_COEF = (2.841950e-01, 2.289340e-01, 1.004743e+00, -3.194373e-03, 4.390598e-07)

BAND09_SCA03_SAMP_DEN_COEF = (-7.221965e-07, -5.495515e-06, -1.552965e-06, -6.253026e-12)
BAND09_SCA04_MEAN_HEIGHT = 3500.000
BAND09_SCA04_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA04_MEAN_L1T_LINE_SAMP = (3238.419, 2400.285)
BAND09_SCA04_LINE_NUM_COEF = (-2.539365e-03, 1.015275e+00, -2.155891e-01, -5.556558e-04, -5.303195e-06)
BAND09_SCA04_LINE_DEN_COEF = (5.838550e-09, -4.929672e-06, -3.099688e-11, -4.453894e-12)
BAND09_SCA04_SAMP_NUM_COEF = (3.157208e-01, 2.310196e-01, 1.013609e+00, -2.483983e-03, 4.334025e-07)
BAND09_SCA04_SAMP_DEN_COEF = (-4.045478e-07, -4.047482e-06, -1.559866e-06, -5.636130e-12)
BAND09_SCA05_MEAN_HEIGHT = 3500.000
BAND09_SCA05_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA05_MEAN_L1T_LINE_SAMP = (3975.625, 2695.505)
BAND09_SCA05_LINE_NUM_COEF = (3.699369e-02, 1.014927e+00, -2.171029e-01, 5.219168e-04, -1.474441e-05)
BAND09_SCA05_LINE_DEN_COEF = (9.800201e-08, -1.339008e-05, -2.182920e-09, -4.397395e-12)
BAND09_SCA05_SAMP_NUM_COEF = (3.564460e-01, 2.305622e-01, 1.012435e+00, -1.744914e-03, 4.463962e-07)
BAND09_SCA05_SAMP_DEN_COEF = (-1.283314e-07, -2.886919e-06, -1.564133e-06, -5.240803e-12)
BAND09_SCA06_MEAN_HEIGHT = 3500.000
BAND09_SCA06_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA06_MEAN_L1T_LINE_SAMP = (3435.878, 3279.989)
BAND09_SCA06_LINE_NUM_COEF = (-6.577655e-03, 1.013503e+00, -2.241335e-01, -5.300225e-04, -8.176487e-06)
BAND09_SCA06_LINE_DEN_COEF = (3.320327e-08, -7.489665e-06, 2.466687e-10, -4.351671e-12)
BAND09_SCA06_SAMP_NUM_COEF = (3.904299e-01, 2.321191e-01, 1.018970e+00, -1.018451e-03, 4.396477e-07)
BAND09_SCA06_SAMP_DEN_COEF = (2.303455e-07, -1.258830e-06, -1.567664e-06, -4.533830e-12)
BAND09_SCA07_MEAN_HEIGHT = 3500.000
BAND09_SCA07_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA07_MEAN_L1T_LINE_SAMP = (4173.154, 3573.113)
BAND09_SCA07_LINE_NUM_COEF = (1.380404e-02, 1.012620e+00, -2.280189e-01, 5.407703e-04, -1.344622e-05)
BAND09_SCA07_LINE_DEN_COEF = (8.729626e-08, -1.219607e-05, -2.094773e-09, -4.255965e-12)
BAND09_SCA07_SAMP_NUM_COEF = (4.071688e-01, 2.311569e-01, 1.015577e+00, -2.804071e-04, 4.517620e-07)
BAND09_SCA07_SAMP_DEN_COEF = (2.931408e-07, -1.033329e-06, -1.568394e-06, -4.549886e-12)
BAND09_SCA08_MEAN_HEIGHT = 3500.000
BAND09_SCA08_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA08_MEAN_L1T_LINE_SAMP = (3635.151, 4156.438)
BAND09_SCA08_LINE_NUM_COEF = (-3.205350e-02, 1.011662e+00, -2.329933e-01, -5.251802e-04, -6.547369e-06)
BAND09_SCA08_LINE_DEN_COEF = (1.490782e-08, -6.020357e-06, 6.605628e-11, -4.259058e-12)
BAND09_SCA08_SAMP_NUM_COEF = (4.441223e-01, 2.321950e-01, 1.019823e+00, 4.555317e-04, 4.439587e-07)
BAND09_SCA08_SAMP_DEN_COEF = (6.921547e-07, 7.721824e-07, -1.568593e-06, -3.746728e-12)
BAND09_SCA09_MEAN_HEIGHT = 3500.000
BAND09_SCA09_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA09_MEAN_L1T_LINE_SAMP = (4374.066, 4449.121)
BAND09_SCA09_LINE_NUM_COEF = (-2.271654e-02, 1.010300e+00, -2.390023e-01, 5.341845e-04, -9.579463e-06)
BAND09_SCA09_LINE_DEN_COEF = (4.732084e-08, -8.718453e-06, -1.658957e-09, -4.148695e-12)
BAND09_SCA09_SAMP_NUM_COEF = (4.802570e-01, 2.307199e-01, 1.014173e+00, 1.186360e-03, 4.551275e-07)
BAND09_SCA09_SAMP_DEN_COEF = (9.397645e-07, 1.811450e-06, -1.567018e-06, -3.402542e-12)
BAND09_SCA10_MEAN_HEIGHT = 3500.000
BAND09_SCA10_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA10_MEAN_L1T_LINE_SAMP = (3836.911, 5033.587)
BAND09_SCA10_LINE_NUM_COEF = (-5.272376e-02, 1.009862e+00, -2.416838e-01, -5.419577e-04, -5.899815e-06)
BAND09_SCA10_LINE_DEN_COEF = (6.131589e-09, -5.431495e-06, 1.713740e-11, -4.170814e-12)
BAND09_SCA10_SAMP_NUM_COEF = (4.947977e-01, 2.312527e-01, 1.016188e+00, 1.925771e-03, 4.463067e-07)
BAND09_SCA10_SAMP_DEN_COEF = (1.141039e-06, 2.748108e-06, -1.564624e-06, -2.966233e-12)
BAND09_SCA11_MEAN_HEIGHT = 3500.000
BAND09_SCA11_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)

BAND09_SCA11_MEAN_L1T_LINE_SAMP = (4578.876, 5327.507)
BAND09_SCA11_LINE_NUM_COEF = (-4.044500e-02, 1.007961e+00, -2.500876e-01, 5.009818e-04, -9.451010e-06)
BAND09_SCA11_LINE_DEN_COEF = (4.618667e-08, -8.581809e-06, -1.579267e-09, -4.024777e-12)
BAND09_SCA11_SAMP_NUM_COEF = (5.442118e-01, 2.292881e-01, 1.008379e+00, 2.643426e-03, 4.565228e-07)
BAND09_SCA11_SAMP_DEN_COEF = (1.513101e-06, 4.336356e-06, -1.559112e-06, -2.380547e-12)
BAND09_SCA12_MEAN_HEIGHT = 3500.000
BAND09_SCA12_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA12_MEAN_L1T_LINE_SAMP = (4042.450, 5915.172)
BAND09_SCA12_LINE_NUM_COEF = (-6.148239e-02, 1.008050e+00, -2.504404e-01, -5.799054e-04, -7.448176e-06)
BAND09_SCA12_LINE_DEN_COEF = (2.192139e-08, -6.796540e-06, 2.415042e-10, -4.054759e-12)
BAND09_SCA12_SAMP_NUM_COEF = (5.531259e-01, 2.293153e-01, 1.008162e+00, 3.380248e-03, 4.467084e-07)
BAND09_SCA12_SAMP_DEN_COEF = (1.668825e-06, 5.072469e-06, -1.554621e-06, -2.017722e-12)
BAND09_SCA13_MEAN_HEIGHT = 3500.000
BAND09_SCA13_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA13_MEAN_L1T_LINE_SAMP = (4788.960, 6211.997)
BAND09_SCA13_LINE_NUM_COEF = (-4.197870e-02, 1.005691e+00, -2.608905e-01, 4.427549e-04, -1.203055e-05)
BAND09_SCA13_LINE_DEN_COEF = (7.695455e-08, -1.084752e-05, -1.695278e-09, -3.861191e-12)
BAND09_SCA13_SAMP_NUM_COEF = (6.395241e-01, 2.268575e-01, 9.981756e-01, 4.078584e-03, 4.559123e-07)
BAND09_SCA13_SAMP_DEN_COEF = (2.374002e-06, 8.128553e-06, -1.539528e-06, -7.572283e-13)
BAND09_SCA14_MEAN_HEIGHT = 3500.000
BAND09_SCA14_MEAN_L1R_LINE_SAMP = (3763.889, 257.214)
BAND09_SCA14_MEAN_L1T_LINE_SAMP = (4252.555, 6805.098)
BAND09_SCA14_LINE_NUM_COEF = (-6.012823e-02, 1.006250e+00, -2.591668e-01, -6.394409e-04, -1.052947e-05)
BAND09_SCA14_LINE_DEN_COEF = (5.694298e-08, -9.515435e-06, 7.241113e-10, -3.899794e-12)
BAND09_SCA14_SAMP_NUM_COEF = (6.019152e-01, 2.263990e-01, 9.958134e-01, 4.807126e-03, 4.451570e-07)
BAND09_SCA14_SAMP_DEN_COEF = (2.111085e-06, 7.022481e-06, -1.540451e-06, -1.217220e-12)
END_GROUP = RPC_BAND09
GROUP = RPC_BAND10
BAND10_NUMBER_OF_SCAS = 3
BAND10_NUM_L1T_LINES = 7801
BAND10_NUM_L1T_SAMPS = 7711
BAND10_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND10_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND10_NUM_L1R_LINES = 2701
BAND10_NUM_L1R_SAMPS = 640
BAND10_PIXEL_SIZE = 30.000
BAND10_START_TIME = 7.587451
BAND10_LINE_TIME = 0.014279891
BAND10_MEAN_HEIGHT = 3500.000
BAND10_MEAN_L1R_LINE_SAMP = (1353.971, 959.024)
BAND10_MEAN_L1T_LINE_SAMP = (3575.465, 3911.051)
BAND10_MEAN_SAT_VECTOR = (-0.005448815, -0.019359229, 0.995258531)
BAND10_SAT_X_NUM_COEF = (-4.922979e-05, -2.960147e-07, -4.700619e-05, -7.458144e-09, -3.295886e-05,
1.378351e-11, 4.246477e-11, 1.208772e-11, -1.878029e-14, 1.697004e-15)
BAND10_SAT_X_DEN_COEF = (-3.148791e-06, 0.000000e+00, -1.405080e-06, 7.846652e-06, 3.793363e-11,
4.308690e-10, 9.544964e-10, 2.755765e-14, -3.641549e-16)
BAND10_SAT_Y_NUM_COEF = (1.471864e-04, 4.707842e-05, -2.951255e-07, -2.715347e-08, -1.492226e-04,
-3.125270e-13, -1.868583e-11, -7.639695e-11, -9.498419e-15, -7.333492e-16)
BAND10_SAT_Y_DEN_COEF = (4.217422e-08, -5.015170e-07, -1.408253e-06, 0.000000e+00, 5.450219e-11,
4.594070e-10, 9.641889e-10, 4.285454e-14, -4.356385e-16)
BAND10_SAT_Z_NUM_COEF = (3.526124e-03, 1.657215e-07, -1.007837e-07, -9.689369e-09, -5.932877e-07,
-5.440294e-11, -4.771714e-10, -1.047803e-09, -6.367217e-15, 1.917675e-17)

BAND10_SAT_Z_DEN_COEF = (3.400553e-07, 3.384199e-07, -2.763172e-06, 3.349799e-07, 8.402691e-11,
5.431339e-10, 1.394499e-09, -6.735770e-14, 1.415097e-14)
BAND10_MEAN_SUN_VECTOR = (0.505874394, 0.516296340, 0.690887198)
BAND10_SUN_X_NUM_COEF = (1.427543e-05, -2.591401e-08, -4.281376e-06, -6.629414e-14, -8.703585e-07,
-2.306574e-13, -9.551885e-12, -6.399284e-12, -1.837960e-16, 1.071082e-16)
BAND10_SUN_X_DEN_COEF = (2.183478e-07, 0.000000e+00, -1.291785e-11, -6.410102e-07, -1.608582e-11,
-5.246950e-12, 9.364999e-12, 1.192896e-14, -1.752305e-15)
BAND10_SUN_Y_NUM_COEF = (7.425159e-05, 3.273790e-06, 9.911598e-07, 2.593205e-13, 2.046483e-07,
-1.222171e-11, 2.237802e-11, -4.030026e-12, 1.169503e-15, 1.688253e-16)
BAND10_SUN_Y_DEN_COEF = (-1.969506e-06, 3.571315e-06, -4.520752e-11, -5.832770e-07, 0.000000e+00,
0.000000e+00, 1.492952e-11, -3.349401e-14, -2.321190e-14)
BAND10_SUN_Z_NUM_COEF = (8.168235e-05, -2.427621e-06, 2.394012e-06, 1.739047e-13, 4.841625e-07,
-1.346572e-11, -1.196428e-11, 9.896847e-12, 1.696542e-15, -8.844476e-17)
BAND10_SUN_Z_DEN_COEF = (2.433551e-06, 7.344615e-06, -8.389651e-11, 0.000000e+00, 1.294071e-12,
-7.097009e-13, 1.215930e-11, 1.306668e-14, -9.736332e-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 = (3364.014, 6064.629)
BAND10_SCA01_LINE_NUM_COEF = (-1.522706e-01, 3.006139e-01, -6.744928e-02, -5.327874e-04, 1.236904e-06)
BAND10_SCA01_LINE_DEN_COEF = (-1.059719e-07, 3.550252e-06, -2.126117e-09, -4.284584e-12)
BAND10_SCA01_SAMP_NUM_COEF = (-7.191844e-01, -6.588545e-02, -2.894933e-01, -9.677179e-04, -1.231940e-07)
BAND10_SCA01_SAMP_DEN_COEF = (1.497546e-06, 4.392840e-06, -1.557339e-06, 5.551442e-12)
BAND10_SCA02_MEAN_HEIGHT = 3500.000
BAND10_SCA02_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND10_SCA02_MEAN_L1T_LINE_SAMP = (4899.187, 3608.110)
BAND10_SCA02_LINE_NUM_COEF = (4.572007e-02, 3.001993e-01, -6.840266e-02, 4.510537e-04, -8.433651e-07)
BAND10_SCA02_LINE_DEN_COEF = (-2.570128e-08, -2.722815e-06, -1.521515e-09, -4.345682e-12)
BAND10_SCA02_SAMP_NUM_COEF = (-1.936559e-01, -6.645494e-02, -2.921907e-01, -1.098165e-05, -1.321876e-07)
BAND10_SCA02_SAMP_DEN_COEF = (5.448589e-07, 4.054866e-08, -1.568786e-06, 5.728434e-13)
BAND10_SCA03_MEAN_HEIGHT = 3500.000
BAND10_SCA03_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND10_SCA03_MEAN_L1T_LINE_SAMP = (2463.196, 2060.413)
BAND10_SCA03_LINE_NUM_COEF = (-1.242689e-01, 2.999742e-01, -6.922111e-02, -5.277063e-04, 1.214832e-06)
BAND10_SCA03_LINE_DEN_COEF = (-9.167466e-08, 3.481848e-06, -2.084385e-09, -4.010652e-12)
BAND10_SCA03_SAMP_NUM_COEF = (3.626221e-01, -6.607630e-02, -2.896736e-01, 9.445530e-04, -1.182459e-07)
BAND10_SCA03_SAMP_DEN_COEF = (-4.805684e-07, -4.305404e-06, -1.557025e-06, 1.768202e-12)
END_GROUP = RPC_BAND10
GROUP = RPC_BAND11
BAND11_NUMBER_OF_SCAS = 3
BAND11_NUM_L1T_LINES = 7801
BAND11_NUM_L1T_SAMPS = 7711
BAND11_L1T_IMAGE_CORNER_LINES = (8.442823, 1429.339684, 7793.203837, 6368.649799)
BAND11_L1T_IMAGE_CORNER_SAMPS = (1459.848733, 7703.189175, 6256.315285, 9.670091)
BAND11_NUM_L1R_LINES = 2701
BAND11_NUM_L1R_SAMPS = 640
BAND11_PIXEL_SIZE = 30.000
BAND11_START_TIME = 7.587451
BAND11_LINE_TIME = 0.014279891
BAND11_MEAN_HEIGHT = 3500.000
BAND11_MEAN_L1R_LINE_SAMP = (1353.971, 959.024)
BAND11_MEAN_L1T_LINE_SAMP = (3698.619, 3883.084)

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BAND11_MEAN_SAT_VECTOR = (-0.004199255, -0.013619661, 0.996026152)
BAND11_SAT_X_NUM_COEF = (-1.277749e-05, -2.893648e-07, -4.705159e-05, -5.715598e-09, -3.300647e-05,
1.374860e-11, 4.205902e-11, 1.099431e-11, -1.746226e-14, 1.699237e-15)
BAND11_SAT_X_DEN_COEF = (-3.189532e-06, 0.000000e+00, -1.404121e-06, 7.963842e-06, 3.866846e-11,
4.302204e-10, 9.541836e-10, 2.023387e-14, -3.320526e-16)
BAND11_SAT_Y_NUM_COEF = ( 1.980064e-04, 4.710813e-05, -2.911985e-07, -1.912145e-08, -1.493138e-04,
-6.619890e-13, -2.131434e-11, -8.216964e-11, -8.755821e-15, -7.328896e-16)
BAND11_SAT_Y_DEN_COEF = ( 3.614254e-08, -5.187017e-07, -1.407277e-06, 0.000000e+00, 5.856795e-11,
4.874875e-10, 9.515005e-10, 8.024414e-14, -7.834858e-16)
BAND11_SAT_Z_NUM_COEF = ( 3.526292e-03, 1.973575e-07, -9.717502e-08, -9.913908e-09, -6.915047e-07,
-5.448634e-11, -4.780731e-10, -1.049202e-09, -7.170029e-15, 1.113225e-17)
BAND11_SAT_Z_DEN_COEF = (-9.580820e-07, 1.080068e-07, -2.781494e-06, 4.127718e-06, 8.888130e-11,
6.247885e-10, 1.358241e-09, 7.162830e-14, 8.228016e-15)
BAND11_MEAN_SUN_VECTOR = ( 0.505989993, 0.516677034, 0.690525868)
BAND11_SUN_X_NUM_COEF = ( 1.522991e-05, -2.572912e-08, -4.282082e-06, -1.339550e-14, -8.702637e-07,
-2.273538e-13, -9.523895e-12, -6.409676e-12, -1.835629e-16, 1.066961e-16)
BAND11_SUN_X_DEN_COEF = ( 2.080202e-07, 0.000000e+00, -1.226995e-11, -6.402003e-07, -1.608380e-11,
-5.205971e-12, 9.389649e-12, 7.679238e-15, -1.104532e-15)
BAND11_SUN_Y_NUM_COEF = ( 6.886626e-05, 3.272034e-06, 9.931903e-07, 9.421306e-14, 2.048217e-07,
-1.393302e-11, 1.304762e-11, -6.598083e-12, 7.573165e-16, 1.917009e-16)
BAND11_SUN_Y_DEN_COEF = (-2.482770e-06, 9.346241e-07, -4.258094e-11, -5.905384e-07, 0.000000e+00,
0.000000e+00, 2.405271e-11, -1.772837e-14, -1.254856e-14)
BAND11_SUN_Z_NUM_COEF = ( 7.703354e-05, -2.429038e-06, 2.393960e-06, -1.834303e-14, 4.842606e-07,
-2.668630e-11, 1.865600e-11, -7.642912e-12, 2.962644e-15, -1.973772e-16)
BAND11_SUN_Z_DEN_COEF = ( 7.835180e-06, 0.000000e+00, -1.191990e-10, 1.278781e-06, -1.437689e-11,
1.579517e-11, -3.402256e-12, 1.174430e-14, -5.077349e-15)
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 = (3774.151, 5970.518)
BAND11_SCA01_LINE_NUM_COEF = (-1.165136e-01, 3.005227e-01, -6.778522e-02, -3.303403e-04, 8.276420e-07)
BAND11_SCA01_LINE_DEN_COEF = (-9.194675e-08, 2.315501e-06, -1.250637e-09, -4.310717e-12)
BAND11_SCA01_SAMP_NUM_COEF = (-7.091983e-01, -6.590088e-02, -2.896661e-01, -9.679254e-04, -1.254040e-07)
BAND11_SCA01_SAMP_DEN_COEF = ( 1.481237e-06, 4.289734e-06, -1.557477e-06, 5.495279e-12)
BAND11_SCA02_MEAN_HEIGHT = 3500.000
BAND11_SCA02_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND11_SCA02_MEAN_L1T_LINE_SAMP = (4473.586, 3704.966)
BAND11_SCA02_LINE_NUM_COEF = ( 1.797521e-02, 3.002185e-01, -6.839404e-02, 2.401806e-04, -5.313478e-07)
BAND11_SCA02_LINE_DEN_COEF = (-3.668884e-08, -1.781105e-06, -9.362440e-10, -4.314228e-12)
BAND11_SCA02_SAMP_NUM_COEF = (-1.856306e-01, -6.649872e-02, -2.922711e-01, -1.102264e-05, -1.300046e-07)
BAND11_SCA02_SAMP_DEN_COEF = ( 5.278788e-07, -9.993263e-11, -1.568786e-06, 3.421742e-13)
BAND11_SCA03_MEAN_HEIGHT = 3500.000
BAND11_SCA03_MEAN_L1R_LINE_SAMP = (1353.971, 319.024)
BAND11_SCA03_MEAN_L1T_LINE_SAMP = (2848.119, 1973.767)
BAND11_SCA03_LINE_NUM_COEF = (-7.694368e-02, 3.000384e-01, -6.886911e-02, -3.382000e-04, 6.964397e-07)
BAND11_SCA03_LINE_DEN_COEF = (-7.280358e-08, 1.920996e-06, -1.162499e-09, -4.070269e-12)
BAND11_SCA03_SAMP_NUM_COEF = ( 3.448468e-01, -6.609300e-02, -2.898414e-01, 9.444555e-04, -1.202818e-07)
BAND11_SCA03_SAMP_DEN_COEF = (-4.463516e-07, -4.186991e-06, -1.557223e-06, 1.256402e-12)
END_GROUP = RPC_BAND11
END
```


1.6.2 Verano 2020

GROUP = L1_METADATA_FILE
GROUP = METADATA_FILE_INFO
ORIGIN = "Image courtesy of the U.S. Geological Survey"
REQUEST_ID = "P700k7vq902ja_00027"
LANDSAT_SCENE_ID = "LC82330762020346LGN00"
LANDSAT_PRODUCT_ID = "LC08_L1TP_233076_20201211_20201218_01_T1"
COLLECTION_NUMBER = 01
FILE_DATE = 2020-12-18T21:34:18Z
STATION_ID = "LGN"
PROCESSING_SOFTWARE_VERSION = "LPGS_13.1.0"
END_GROUP = METADATA_FILE_INFO
GROUP = PRODUCT_METADATA
DATA_TYPE = "L1TP"
COLLECTION_CATEGORY = "T1"
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 = 2020-12-11
SCENE_CENTER_TIME = "14:31:14.0428879Z"
CORNER_UL_LAT_PRODUCT = -22.06098
CORNER_UL_LON_PRODUCT = -69.26362
CORNER_UR_LAT_PRODUCT = -22.04928
CORNER_UR_LON_PRODUCT = -67.02519
CORNER_LL_LAT_PRODUCT = -24.17475
CORNER_LL_LON_PRODUCT = -69.26779
CORNER_LR_LAT_PRODUCT = -24.16179
CORNER_LR_LON_PRODUCT = -66.99404
CORNER_UL_PROJECTION_X_PRODUCT = 472800.000
CORNER_UL_PROJECTION_Y_PRODUCT = -2439600.000
CORNER_UR_PROJECTION_X_PRODUCT = 703800.000
CORNER_UR_PROJECTION_Y_PRODUCT = -2439600.000
CORNER_LL_PROJECTION_X_PRODUCT = 472800.000
CORNER_LL_PROJECTION_Y_PRODUCT = -2673600.000
CORNER_LR_PROJECTION_X_PRODUCT = 703800.000
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_20201211_20201218_01_T1_B1.TIF"
FILE_NAME_BAND_2 = "LC08_L1TP_233076_20201211_20201218_01_T1_B2.TIF"

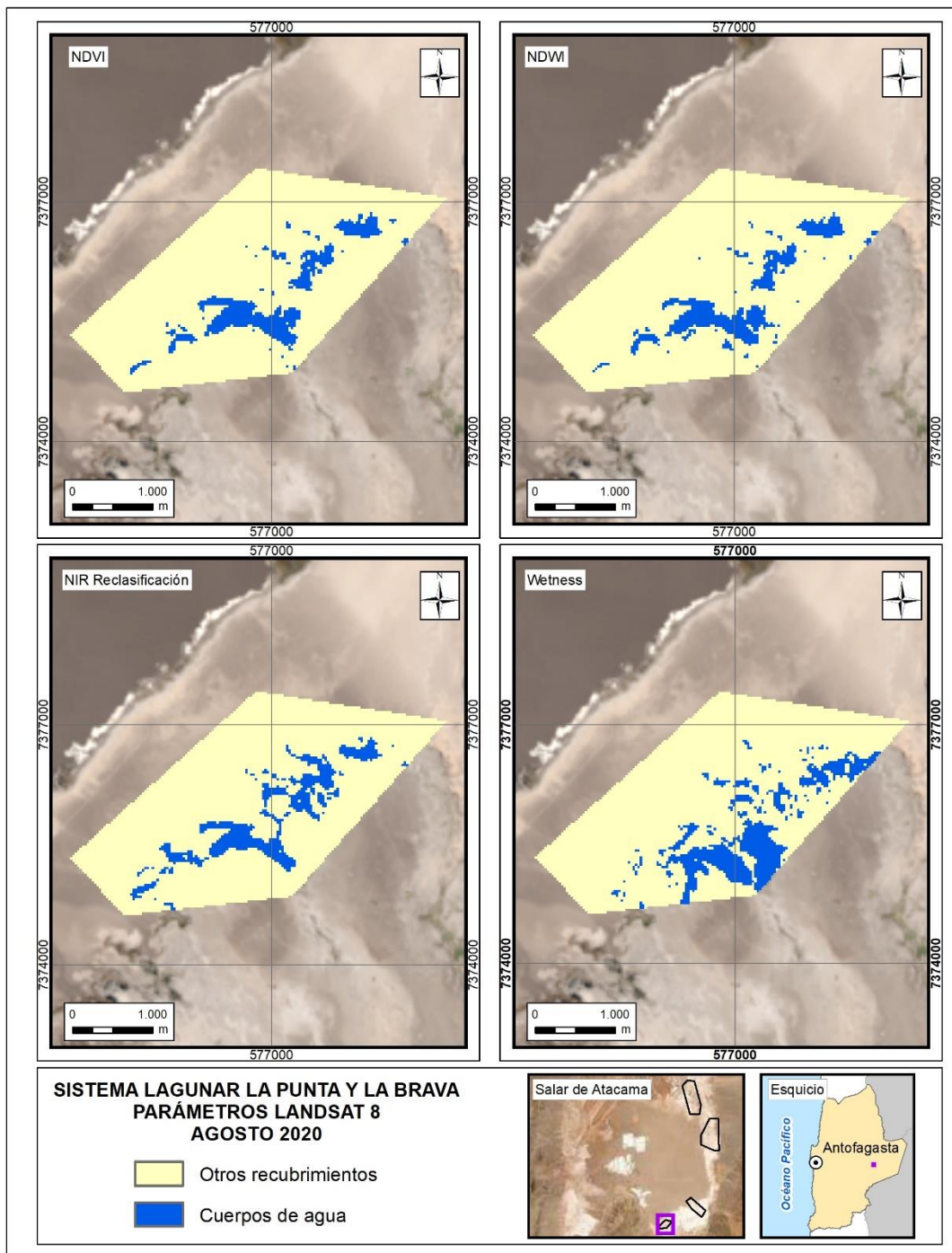
```
FILE_NAME_BAND_3 = "LC08_L1TP_233076_20201211_20201218_01_T1_B3.TIF"
FILE_NAME_BAND_4 = "LC08_L1TP_233076_20201211_20201218_01_T1_B4.TIF"
FILE_NAME_BAND_5 = "LC08_L1TP_233076_20201211_20201218_01_T1_B5.TIF"
FILE_NAME_BAND_6 = "LC08_L1TP_233076_20201211_20201218_01_T1_B6.TIF"
FILE_NAME_BAND_7 = "LC08_L1TP_233076_20201211_20201218_01_T1_B7.TIF"
FILE_NAME_BAND_8 = "LC08_L1TP_233076_20201211_20201218_01_T1_B8.TIF"
FILE_NAME_BAND_9 = "LC08_L1TP_233076_20201211_20201218_01_T1_B9.TIF"
FILE_NAME_BAND_10 = "LC08_L1TP_233076_20201211_20201218_01_T1_B10.TIF"
FILE_NAME_BAND_11 = "LC08_L1TP_233076_20201211_20201218_01_T1_B11.TIF"
FILE_NAME_BAND_QUALITY = "LC08_L1TP_233076_20201211_20201218_01_T1_BQA.TIF"
ANGLE_COEFFICIENT_FILE_NAME = "LC08_L1TP_233076_20201211_20201218_01_T1_ANG.txt"
METADATA_FILE_NAME = "LC08_L1TP_233076_20201211_20201218_01_T1_MTL.txt"
CPF_NAME = "LC08CPF_20201102_20201231_01.04"
BPF_NAME_OLI = "LO8BPF20201211140641_20201211145032.02"
BPF_NAME_TIRS = "LT8BPF20201130223616_20201216101155.02"
RLUT_FILE_NAME = "LC08RLUT_20150303_20431231_01_12.h5"
END_GROUP = PRODUCT_METADATA
GROUP = IMAGE_ATTRIBUTES
CLOUD_COVER = 0.43
CLOUD_COVER_LAND = 0.43
IMAGE_QUALITY_OLI = 9
IMAGE_QUALITY_TIRS = 9
TIRS_SSM_MODEL = "FINAL"
TIRS_SSM_POSITION_STATUS = "ESTIMATED"
TIRS_STRAY_LIGHT_CORRECTION_SOURCE = "TIRS"
ROLL_ANGLE = -0.001
SUN_AZIMUTH = 95.61812654
SUN_ELEVATION = 63.64205913
EARTH_SUN_DISTANCE = 0.9846205
SATURATION_BAND_1 = "N"
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 = 471
GEOMETRIC_RMSE_MODEL = 5.635
GEOMETRIC_RMSE_MODEL_Y = 4.039
GEOMETRIC_RMSE_MODEL_X = 3.930
GROUND_CONTROL_POINTS_VERIFY = 156
GEOMETRIC_RMSE_VERIFY = 2.595
TRUNCATION_OLI = "UPPER"
END_GROUP = IMAGE_ATTRIBUTES
GROUP = MIN_MAX_RADIANCE
RADIANCE_MAXIMUM_BAND_1 = 783.99200
RADIANCE_MINIMUM_BAND_1 = -64.74231
RADIANCE_MAXIMUM_BAND_2 = 802.81732
RADIANCE_MINIMUM_BAND_2 = -66.29692
```

RADIANCE_MAXIMUM_BAND_3 = 739.78931
RADIANCE_MINIMUM_BAND_3 = -61.09204
RADIANCE_MAXIMUM_BAND_4 = 623.83203
RADIANCE_MINIMUM_BAND_4 = -51.51625
RADIANCE_MAXIMUM_BAND_5 = 381.75409
RADIANCE_MINIMUM_BAND_5 = -31.52538
RADIANCE_MAXIMUM_BAND_6 = 94.93877
RADIANCE_MINIMUM_BAND_6 = -7.84007
RADIANCE_MAXIMUM_BAND_7 = 31.99945
RADIANCE_MINIMUM_BAND_7 = -2.64252
RADIANCE_MAXIMUM_BAND_8 = 706.00616
RADIANCE_MINIMUM_BAND_8 = -58.30222
RADIANCE_MAXIMUM_BAND_9 = 149.19815
RADIANCE_MINIMUM_BAND_9 = -12.32083
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 = 1.2951E-02
RADIANCE_MULT_BAND_2 = 1.3262E-02
RADIANCE_MULT_BAND_3 = 1.2221E-02
RADIANCE_MULT_BAND_4 = 1.0305E-02
RADIANCE_MULT_BAND_5 = 6.3063E-03
RADIANCE_MULT_BAND_6 = 1.5683E-03
RADIANCE_MULT_BAND_7 = 5.2861E-04
RADIANCE_MULT_BAND_8 = 1.1663E-02
RADIANCE_MULT_BAND_9 = 2.4647E-03
RADIANCE_MULT_BAND_10 = 3.3420E-04
RADIANCE_MULT_BAND_11 = 3.3420E-04
RADIANCE_ADD_BAND_1 = -64.75526
RADIANCE_ADD_BAND_2 = -66.31018
RADIANCE_ADD_BAND_3 = -61.10426
RADIANCE_ADD_BAND_4 = -51.52656
RADIANCE_ADD_BAND_5 = -31.53168
RADIANCE_ADD_BAND_6 = -7.84164
RADIANCE_ADD_BAND_7 = -2.64305
RADIANCE_ADD_BAND_8 = -58.31388
RADIANCE_ADD_BAND_9 = -12.32330
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

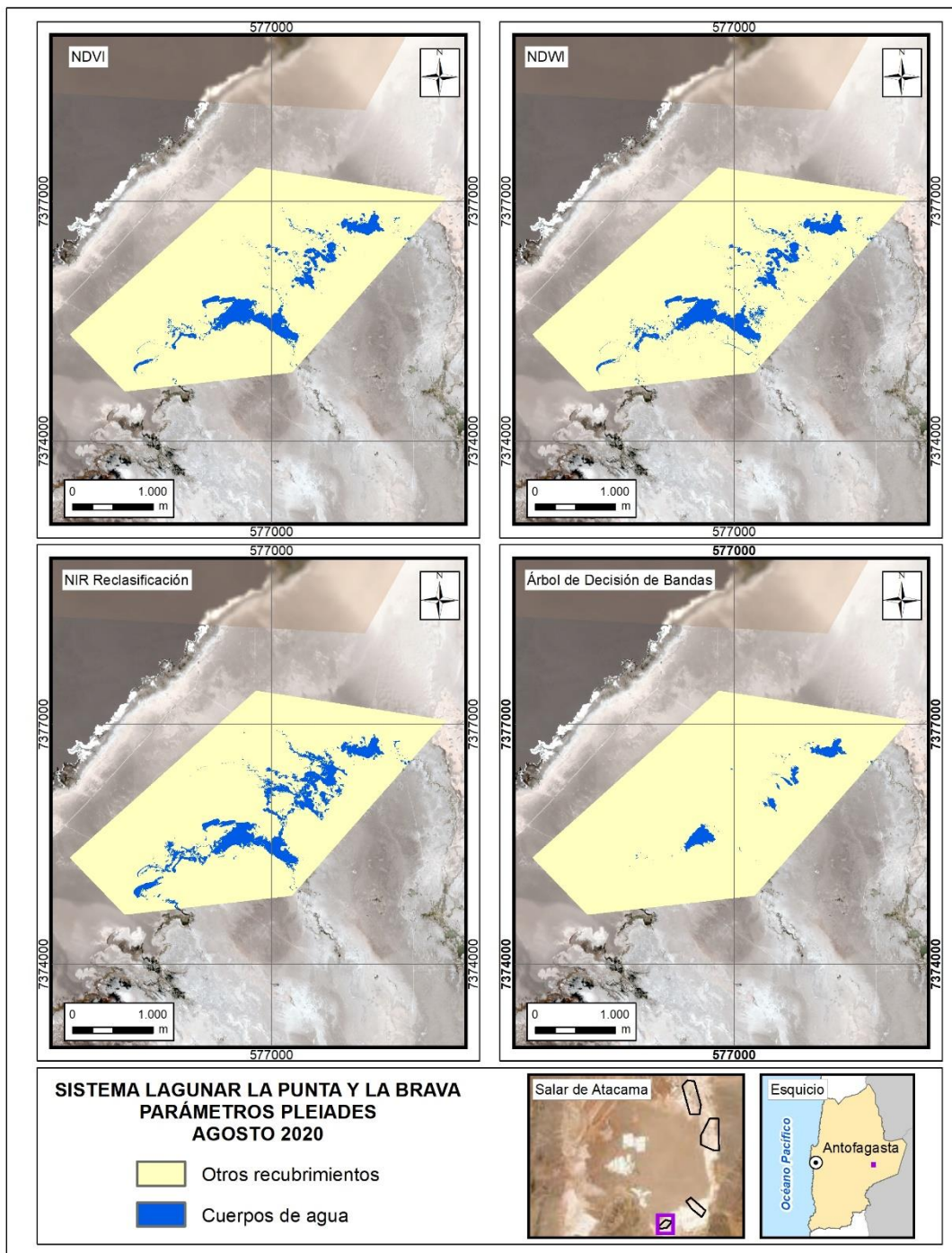
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END_GROUP = RADIOMETRIC_RESCALING
GROUP = TIRS_THERMAL_CONSTANTS
K1_CONSTANT_BAND_10 = 774.8853
K2_CONSTANT_BAND_10 = 1321.0789
K1_CONSTANT_BAND_11 = 480.8883
K2_CONSTANT_BAND_11 = 1201.1442
END_GROUP = TIRS_THERMAL_CONSTANTS
GROUP = PROJECTION_PARAMETERS
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
```

1.7 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes LANDSAT 8, invierno 2020.



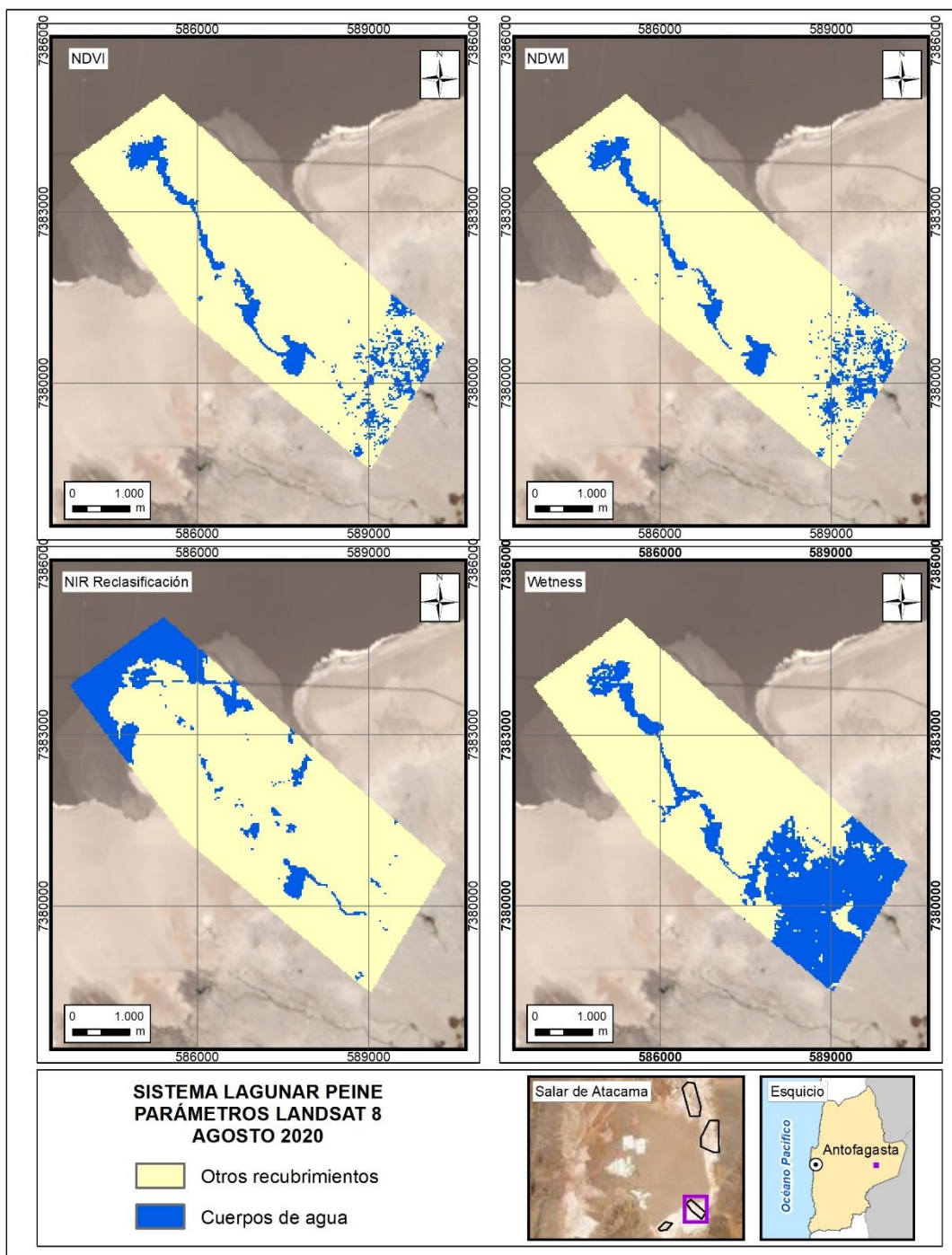
Fuente: Elaboración propia

1.8 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes PLEIADES 1A, invierno 2020.



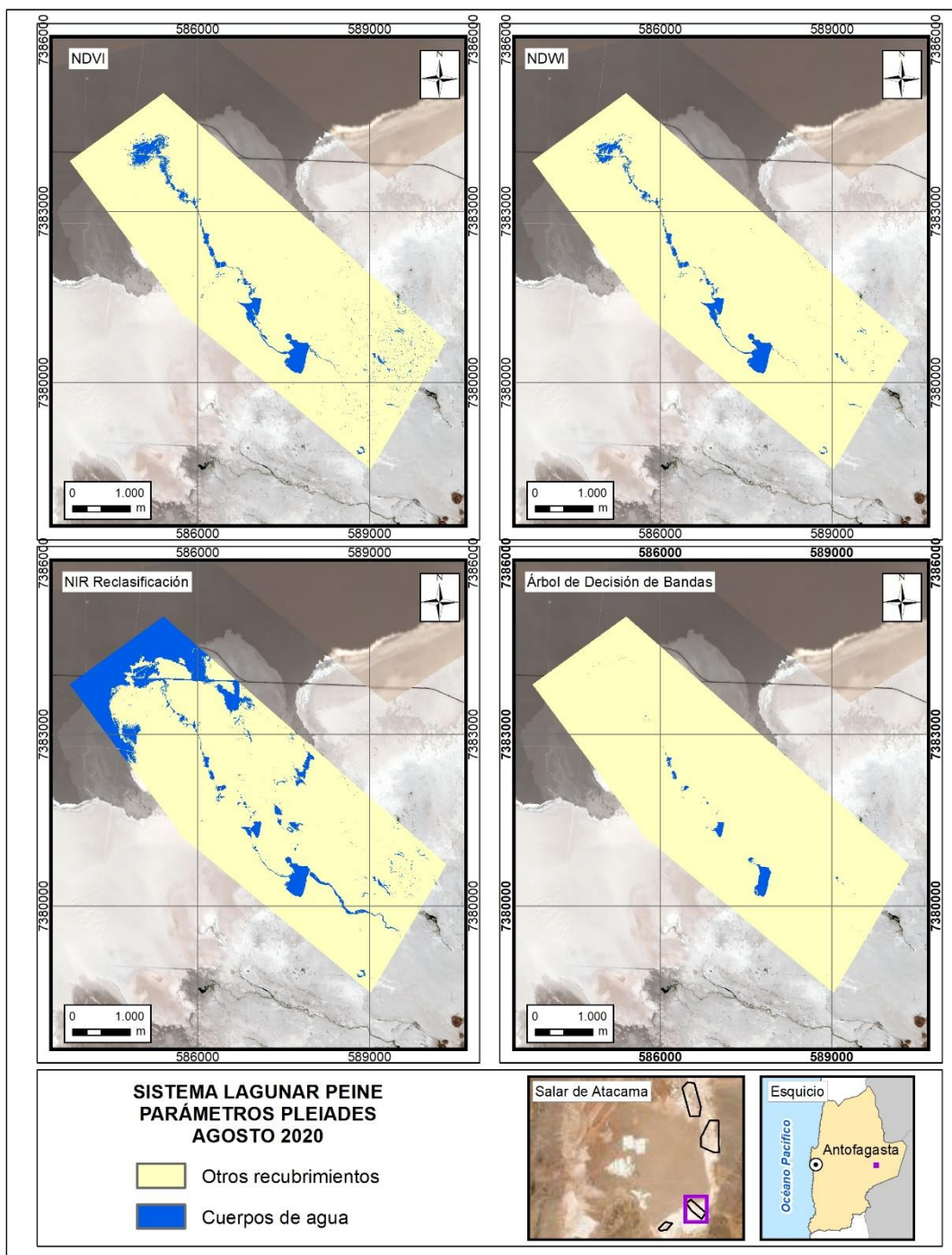
Fuente: Elaboración propia

1.9 Parámetros espectrales para el sistema lagunar Peine, imágenes LANDSAT 8, invierno 2020.



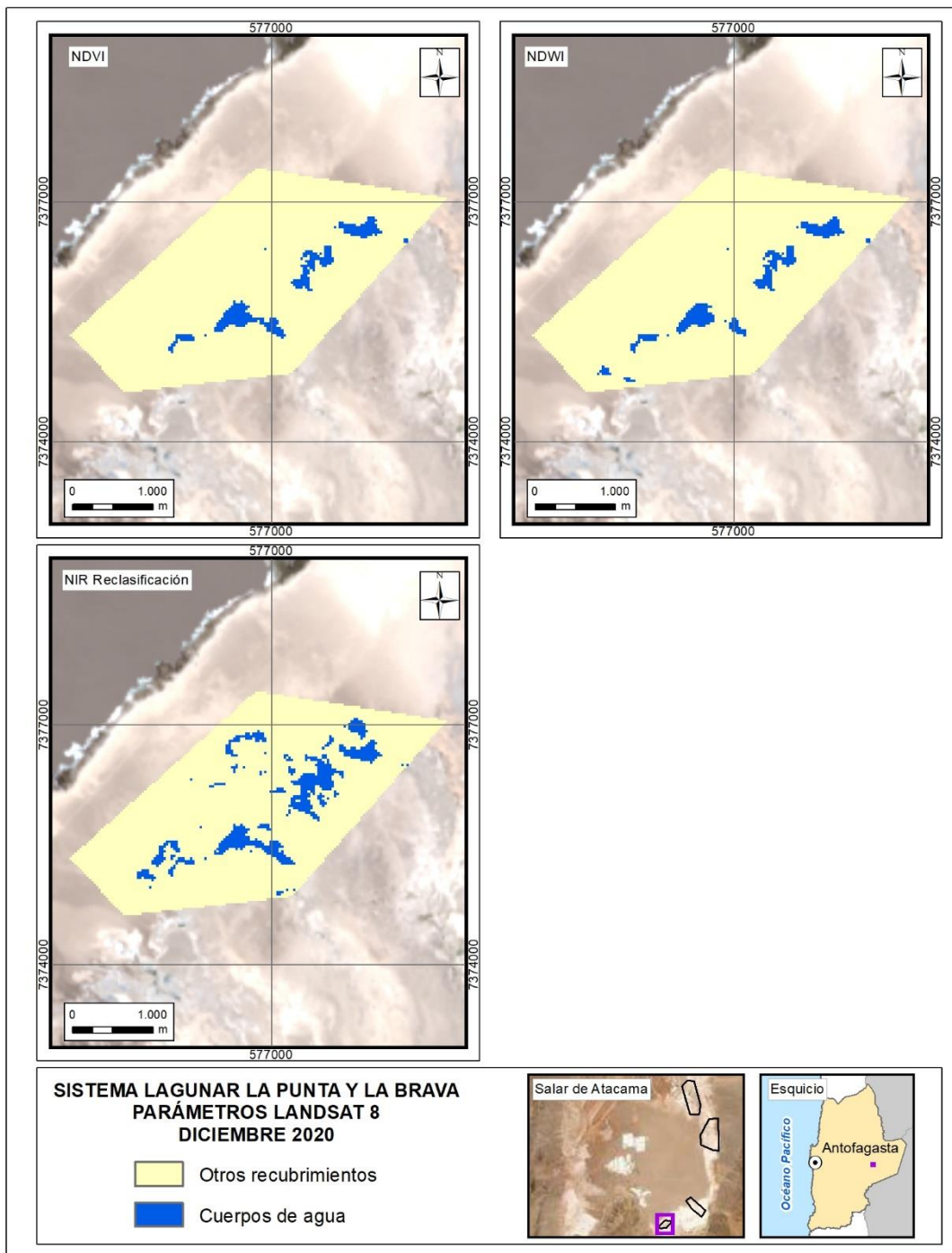
Fuente: Elaboración propia

1.10 Parámetros espectrales para el sistema lagunar Peine, imágenes PLEIADES 1A, invierno 2020.



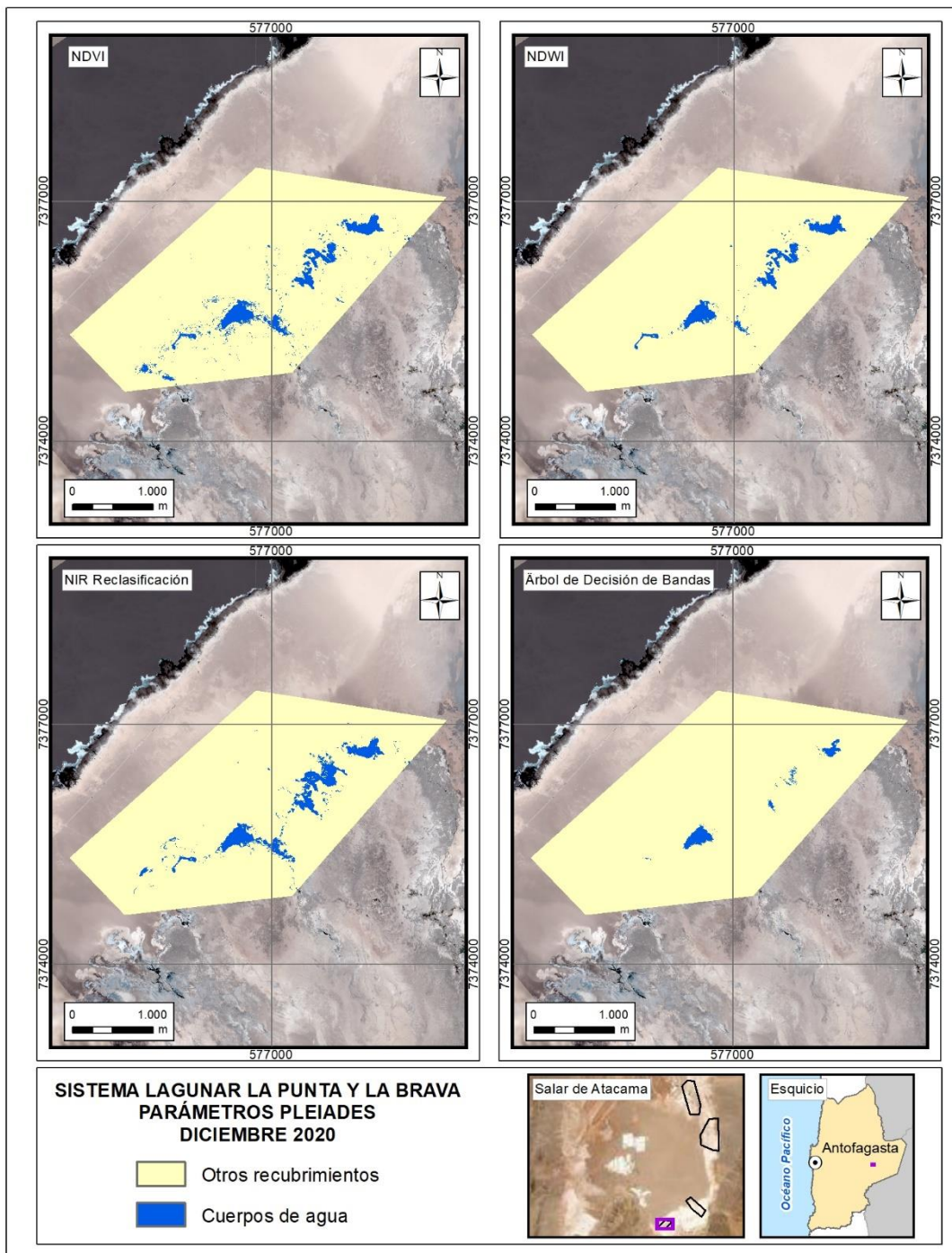
Fuente: Elaboración propia

1.11 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes LANDSAT 8, verano 2020.



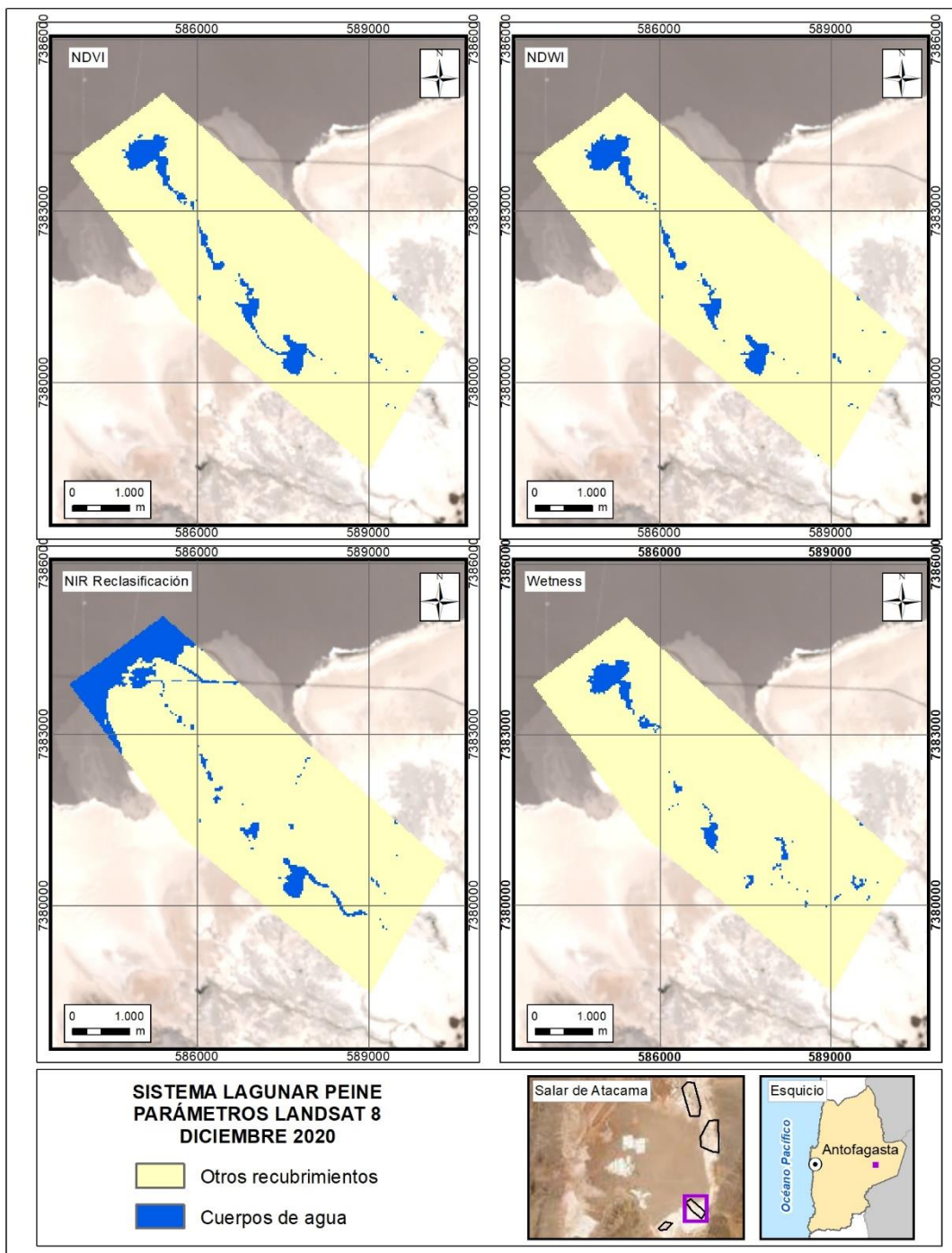
Fuente: Elaboración propia

1.12 Parámetros espectrales para el sistema lagunar La Punta y La Brava, imágenes PLEIADES 1A, verano 2020.



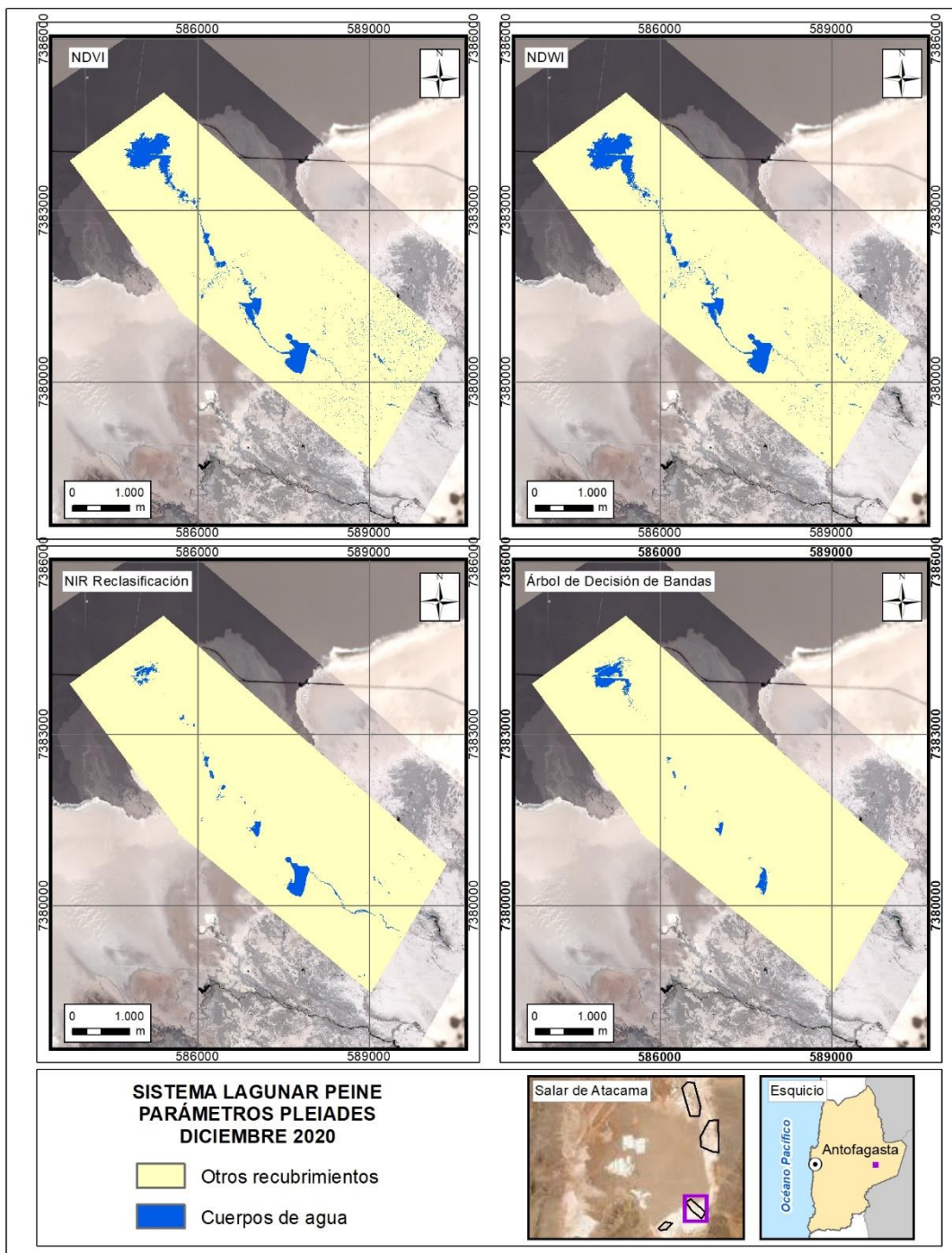
Fuente: Elaboración propia

1.13 Parámetros espectrales para el sistema lagunar Peine, imágenes LANDSAT 8, verano 2020.



Fuente: Elaboración propia

1.14 Parámetros espectrales para el sistema lagunar Peine, imágenes PLEIADES 1A, verano 2020.



Fuente: Elaboración propia

1.15 Carta N°78/2020 de la Comunidad de Peine.



N° 78/2020
Peine, 1 de Diciembre de 2020

Señor:

Manuel Zamora Pizarro

Asunto: Suspende actividades de Monitoreo en Lagunas de Peine

Subgerente de Relaciones Comunitarias

Albemarle

Presente

Mediante la presente, queremos informar la suspensión de las actividades de monitoreo en el sector de las Lagunas de Peine, sistema hídrico compuesto por las lagunas Salada-Saladita-Interna. Como es de público conocimiento, el sistema en mención es una zona identificada entre los sitios de reproducción y nidificación¹ de flamencos, especie importantísima dentro de la cosmovisión andina y particularmente de la Comunidad que presido, actividad que ocurre entre los meses de octubre-noviembre y febrero. En este sentido, en las zonas donde CONAF posee administración o coadministración, como lo es en la Reserva Nacional Los Flamencos, se establecen medidas de restricción de acceso a estos sectores, como lo son Puilar o Barros Negros, lo que quedó establecido en la Resolución N°56/2019 de CONAF².

Así mismo, estamos en desarrollo de instrumentos que nos permitan ordenar el acceso al sector de las lagunas La Punta y La Brava, debido a los descubrimientos científicos realizados en el sector y que hacen urgente el desarrollo de medidas de protección en el sector, por lo que solicitamos realizar las actividades con el mayor de los cuidados.

La restricción regirá hasta el 28 de febrero del 2021, pudiéndose extender dependiendo de la evaluación que se haga de la actividad reproductiva (éxito de la campaña, formación de crechés, entre otros factores), en el lugar.

¹ Red de Humedales de Importancia para la Conservación de los Flamencos Altoandinos, GCFA. Convención Sobre las Especies Migratorias. Memorando de Entendimiento sobre la Conservación de Flamencos Altoandinos y de sus Hábitats. Programa de las Naciones Unidas para el Medio Ambiente(PNUMA), Convención de Bonn(CMS). Informe 4, 23 de febrero del 2016. Pp. 35.

² Resolución N°56/2019 de CONAF, que aprueba protocolo de ingreso a sectores N°4,6 y 7 de la Reserva Nacional Los Flamencos en coadministración entre CONAF y la Comunidad Atacameña de Toconao.



N° 78/2020
Peine, 1 de Diciembre de 2020

Sin otro particular, reciba usted nuestro cordial saludo.

Amanda Barrera Conzué

Presidenta

Comunidad Atacameña de Peine



C.c.:

- Archivo Comunidad.

1.16 Imágenes Landsat 2019 – 2020 – Análisis NDWI.

Producto/Sensor	ID - LANDSAT	Fecha de adquisición	*Cobertura nubosa
L8 OLI/TIRS	LC08_L1TP_233076_20201227_20201227_01_RT	27-12-2020 14:30:55	19
L8 OLI/TIRS	LC08_L1TP_233076_20201211_20201218_01_T1	11-12-2020 14:30:00	0,43
L8 OLI/TIRS	LC08_L1TP_233076_20201125_20201211_01_T1	25-11-2020 14:30:57	0
L8 OLI/TIRS	LC08_L1TP_233076_20201109_20201212_01_T1	09-11-2020 14:30:54	1
L8 OLI/TIRS	LC08_L1TP_233076_20201024_20201105_01_T1	24-10-2020 14:30:56	1
L8 OLI/TIRS	LC08_L1TP_233076_20200922_20201006_01_T1	22-09-2020 14:30:53	4
L8 OLI/TIRS	LC08_L1TP_233076_20200906_20200918_01_T1	06-09-2020 14:30:48	4
L8 OLI/TIRS	LC08_L1TP_233076_20200821_20200905_01_T1	21-08-2020 14:30:41	2
L8 OLI/TIRS	LC08_L1TP_233076_20200805_20200821_01_T1	05-08-2020 14:30:34	1
L8 OLI/TIRS	LC08_L1TP_233076_20200704_20200708_01_T1	04-07-2020 14:30:25	1
L8 OLI/TIRS	LC08_L1TP_233076_20200618_20200625_01_T1	18-06-2020 14:30:17	1
L8 OLI/TIRS	LC08_L1TP_233076_20200602_20200608_01_T1	02-06-2020 14:30:07	4
L8 OLI/TIRS	LC08_L1TP_233076_20200517_20200527_01_T1	17-05-2020 14:30:00	0,85
L8 OLI/TIRS	LC08_L1TP_233076_20200501_20200509_01_T1	01-05-2020 14:30:00	0,9
L8 OLI/TIRS	LC08_L1TP_233076_20200415_20200423_01_T1	15-04-2020 14:30:12	1
L8 OLI/TIRS	LC08_L1TP_233076_20200330_20200410_01_T1	30-03-2020 14:30:19	1
L8 OLI/TIRS	LC08_L1TP_233076_20200314_20200325_01_T1	14-03-2020 14:30:28	5
L8 OLI/TIRS	LC08_L1TP_233076_20200227_20200313_01_T1	27-02-2020 14:30:35	0
L8 OLI/TIRS	LC08_L1TP_233076_20200211_20200225_01_T1	11-02-2020 14:30:39	2
L8 OLI/TIRS	LC08_L1TP_233076_20200126_20200210_01_T1	26-01-2020 14:30:44	14
L8 OLI/TIRS	LC08_L1TP_233076_20200110_20200114_01_T1	10-01-2020 14:30:48	17
L8 OLI/TIRS	LC08_L1TP_233076_20191225_20200110_01_T1	25-12-2019 14:20:25	2,11
L8 OLI/TIRS	LC08_L1TP_233076_20191209_20191217_01_T1	09-12-2019 14:20:28	0,84
L8 OLI/TIRS	LC08_L1TP_233076_20191123_20191203_01_T1	23-11-2019 14:20:28	2,98
L8 OLI/TIRS	LC08_L1TP_233076_20191107_20191115_01_T1	07-11-2019 14:20:32	0,4
L8 OLI/TIRS	LC08_L1TP_233076_20191022_20191030_01_T1	22-10-2019 14:20:33	1,01
L8 OLI/TIRS	LC08_L1TP_233076_20191006_20191018_01_T1	06-10-2019 14:20:32	1,44
L8 OLI/TIRS	LC08_L1TP_233076_20190920_20190926_01_T1	20-09-2019 14:20:28	2,11

Producto/Sensor	ID - LANDSAT	Fecha de adquisición	*Cobertura nubosa
L8 OLI/TIRS	LC08_L1TP_233076_20190904_20190917_01_T1	04-09-2019 14:20:22	8,14
L8 OLI/TIRS	LC08_L1TP_233076_20190819_20190902_01_T1	19-08-2019 14:20:19	1,09
L8 OLI/TIRS	LC08_L1TP_233076_20190803_20190819_01_T1	03-08-2019 14:20:13	1,25
L8 OLI/TIRS	LC08_L1TP_233076_20190718_20190731_01_T1	18-07-2019 14:20:06	1,25
L8 OLI/TIRS	LC08_L1TP_233076_20181222_20181227_01_T1	22-12-2018 14:20:02	0,99
L8 OLI/TIRS	LC08_L1TP_233076_20181206_20181211_01_T1	06-12-2018 14:20:03	0,97
L8 OLI/TIRS	LC08_L1TP_233076_20181120_20181129_01_T1	20-11-2018 14:20:05	1,31
L8 OLI/TIRS	LC08_L1TP_233076_20181104_20181115_01_T1	04-11-2018 14:20:05	0,62
L8 OLI/TIRS	LC08_L1TP_233076_20181019_20181031_01_T1	19-10-2018 14:20:01	0,88
L8 OLI/TIRS	LC08_L1TP_233076_20181003_20181010_01_T1	03-10-2018 14:19:55	2,49
L8 OLI/TIRS	LC08_L1TP_233076_20180917_20180928_01_T1	17-09-2018 14:19:47	1,7
L8 OLI/TIRS	LC08_L1TP_233076_20180901_20180912_01_T1	01-09-2018 14:19:43	2,5
L8 OLI/TIRS	LC08_L1TP_233076_20180816_20180829_01_T1	16-08-2018 14:19:36	3,68
L8 OLI/TIRS	LC08_L1TP_233076_20180731_20180814_01_T1	31-07-2018 14:19:27	3,6
L8 OLI/TIRS	LC08_L1TP_233076_20180715_20180730_01_T1	15-07-2018 14:19:20	2,8
L8 OLI/TIRS	LC08_L1TP_233076_20180629_20180716_01_T1	29-06-2018 14:19:12	2,63
L8 OLI/TIRS	LC08_L1TP_233076_20180613_20180703_01_T1	13-06-2018 14:19:02	4,85
L8 OLI/TIRS	LC08_L1TP_233076_20180528_20180605_01_T1	28-05-2018 14:18:59	0,9
L8 OLI/TIRS	LC08_L1TP_233076_20180512_20180517_01_T1	12-05-2018 14:19:12	1,09
L8 OLI/TIRS	LC08_L1TP_233076_20180426_20180502_01_T1	26-04-2018 14:19:22	42,69
L8 OLI/TIRS	LC08_L1TP_233076_20180410_20180417_01_T1	10-04-2018 14:19:31	1,33
L8 OLI/TIRS	LC08_L1TP_233076_20180325_20180404_01_T1	25-03-2018 14:19:39	3,02
L8 OLI/TIRS	LC08_L1TP_233076_20180309_20180320_01_T1	09-03-2018 14:19:47	0,77
L8 OLI/TIRS	LC08_L1TP_233076_20180221_20180308_01_T1	21-02-2018 14:19:55	0,77
L8 OLI/TIRS	LC08_L1TP_233076_20180205_20180221_01_T1	05-02-2018 14:20:01	21,42
L8 OLI/TIRS	LC08_L1TP_233076_20180120_20180206_01_T1	20-01-2018 14:20:09	4,26
L8 OLI/TIRS	LC08_L1TP_233076_20180104_20180118_01_T1	04-01-2018 14:20:17	0,89

*Las coberturas nubosas mayores al 10% fueron analizadas según el área de corte, y consideradas en la medida que no afectaran la metodología de análisis.