

Table 1: The number of image pairs of each land use land cover (LULC) class that is not covered by snow or clouds in training, validation, and test sets for the reBEN dataset.

LULC	Train	Validation	Test	Total
Agro-forestry areas	15 082	8157	9942	33 181
Arable land	88 236	49 737	50 052	188 025
Beaches, dunes, sands	738	426	152	1316
Broad-leaved forest	64 164	35 387	36 377	135 928
Coastal wetlands	670	610	117	1397
Complex cultivation patterns	51 034	26 486	22 078	99 598
Coniferous forest	76 344	39 554	39 043	154 941
Industrial or commercial units	6398	2726	2018	11 142
Inland waters	30 466	15 900	16 846	63 212
Inland wetlands	11 344	5056	4519	20 919
Land principally occupied by agriculture, with significant areas of natural vegetation	60 127	32 736	29 846	122 709
Marine waters	35 914	14 064	11 854	61 832
Mixed forest	78 791	42 705	44 284	165 780
Moors, heathland and sclerophyllous vegetation	6329	3806	3759	13 894
Natural grassland and sparsely vegetated areas	6984	2687	2211	11 882
Pastures	42 968	25 915	26 722	95 605
Permanent crops	15 190	8688	5710	29 588
Transitional woodland, shrub	64 198	36 429	40 523	141 150
Urban fabric	33 626	17 308	12 824	63 758