TABLE I
THE LIST OF CLASSES WITHIN CLC AND PROPOSED CLASS NOMENCLATURES AND THEIR ASSOCIATED NUMBERS OF IMAGE PAIRS. THESE NUMBERS ARE OBTAINED AFTER ELIMINATING SENTINEL-2 IMAGE PATCHES THAT ARE FULLY COVERED BY SEASONAL SNOW, CLOUD, AND CLOUD SHADOW.

CLC Class-Nomenclature	Number of Image Pairs	19 Classes Nomenclature	Number of Image Pairs			
			Total	Training	Validation	Test
Continuous urban fabric	10,766	- Urban fabric	74,891	38,783	18,180	17,928
Discontinuous urban fabric	65,894		74,071	36,763		
Industrial or commercial units	11,865	Industrial or commercial units	11,865	6,182	2,875	2,808
Road and rail networks and associated land	3,269	removed				
Port areas	453					
Airports	820					
Mineral extraction sites	4,225					
Dump sites	822					
Construction sites	1,081					
Green urban areas	1,651					
Sport and leisure facilities	4,983					
Non-irrigated arable land	183,987	Arable land				
Permanently irrigated land	13,571		194,148	100,394	46,604	47,150
Rice fields	3,793					
Vineyards	9,524	- Permanent crops				
Fruit trees and berry plantations	4,672		29,350	15.862	6,676	6.812
Olive groves	12,503		27,550	15,002	0,070	0,012
Annual crops associated with permanent crops	7,019					
Pastures	98,997	Pastures	98,997	50,981	23,846	24,170
Complex cultivation patterns	104,203	Complex cultivation patterns	104,203	53,534	25,031	25,638
Land principally occupied by agriculture,	130,637	Land principally occupied by agriculture,	130,637	67,260	31,325	32,052
with significant areas of natural vegetation		with significant areas of natural vegetation		-		
Agro-forestry areas	30,649	Agro-forestry areas	30,649	15,790	7,598	7,261
Broad-leaved forest	141,300	Broad-leaved forest	141,300	73,411	33,759	34,130
Coniferous forest	164,775	Coniferous forest	164,775	86,569	38,674	39,532
Mixed forest	176,567	Mixed forest	176,567	91,930	41,996	42,641
Natural grassland	11,141	Natural grassland and sparsely vegetated areas	12,022	6,663	2,560	2,799
Sparsely vegetated areas	1,202		,			
Moors and heathland	5,073	Moors, heathland and sclerophyllous vegetation	16,267	8,438	3,970	3,859
Sclerophyllous vegetation	11,241			,		
Transitional woodland-shrub	148,950	Transitional woodland-shrub	148,950	77,593	35,146	36,211
Beaches, dunes, sands	1,536	Beaches, dunes, sands	1,536	1,197	118	221
Bare rock	2,894	removed				
Burnt areas	304	removed				
Inland marshes	5,516	Inland wetlands	22,100	11,620	5,131	5,349
Peatbogs	16,667		22,100	11,020	3,131	3,347
Salt marshes	1,339	Coastal wetlands	1,566	1,037	219	310
Salines	424		1,500	1,037	217	310
Intertidal flats	962	removed				
Water courses	9,792	Inland waters	67,277	35,349	15,751	16,177
Water bodies	58,009		01,211	33,349	13,731	10,1//
Coastal lagoons	1,495	Marine waters				
Estuaries	1,064		74,877	39,114	17,740	18,023
Sea and ocean	72,522					