

Review database of the paper “There Is No Data Like More Data – Datasets for Deep Learning in Earth Observation”

Index	Task	Platform	Sensor Type	Dataset Name	Pub. Date	Time Stamps	#Images	Img. Size	#Classes	Volume (MB)	Geographic Diversity
1	Change Detection	Aerial	Multiple	DFC21-MSD	2021	Multiple	2250*9	4000	15	325000	USA
2			Optical	AIST Building CD	2017	Multiple	16950	160	1	1820	Japan
3				Synthetic & Real	2018	Single	16000	256	-	2700	Synthetic
4				AICD	2018	Multiple	1000	800	-	1700	Synthetic
5				HRSCD	2019	Multiple	582	10000	7	5060	Europe
6				SECOND	2020	Multiple	4662	512	30	2200	China
7				Hi-UCD	2020	Multiple	1293	1024	9	-	Estonia
8				MUNO21	2021	Multiple	156	12000	1	14300	USA
9		Multiple	Hyperspectral	HSI_CD	2017	Multiple	3*224	800	5	1700	USA
10		Satellite	Multiple	DFC09	2009	Multiple	2	-	-	98	UK
11			Multispectral	OneraCD	2018	Multiple	24	600	2	489	Global
12				S2MTcityPair	2020	Multiple	1520*13	600	1	10600	Global
13			Optical	xView2	2018	Multiple	22068	1024	4	51000	Multiple Locations
14				MtS-WH	2019	Multiple	190	150	1	459	China
15				LEVIR-CD	2020	Single	637	1024	1	2700	USA
16				DSIFN	2020	Multiple	394	512	1	454	China
17				SYSU-CD	2021	Multiple	20000*2	256	5	5100	China
18				S2Looking	2021	Multiple	5000*2	1024	1	10210	-
19	Change Detection, Classification	Satellite	Multispectral	Seasonal Contrast	2021	Multiple	200000*5*12	265	-	36300	Global
20	Change Detection, Semantic Segmentation	Satellite	Multispectral	DynamicEarthNet	2022	Multiple	54750	1024	7	524000	Global
21	Classification	Aerial	Hyperspectral	Indian Pines	2000	Single	1	145	16	6	USA
22				Salinas	2000	Single	1	365	16	27	USA
23				Botswana	2005	Single	1	875	14	79	South Africa
24				Kennedy Space Center	2005	Single	1	550	13	57	USA
25				Pavia Center	2009	Single	1	1096	9	124	Italy
26				Pavia University	2009	Single	1	610	9	33	Italy
27				ICONES-HSI	2019	Single	468*224	300	9	11500	-
28			Optical	SAT-4	2015	Single	500000	28	4	1150	USA
29				SAT-6	2015	Single	405000	28	6	1150	USA
30				VEDAI	2015	Single	1250	1024	9	3990	USA
31				SIRI-WHU	2016	Single	2400	200	12	700	China, USA
32				MultiScene	2021	Single	100000	512	36	6000	Global
33		Drone	Optical	Kag. Find a Car Park	2019	Single	3262	1296	2	2750	-
34				AIDER	2019	Single	2645	240	4	275	-
35				Rwanda Crop Type	2020	Single	6450	200	6	56000	Rwanda
36				DND-SB	2020	Single	5648	7296	7	49000	Germany
37		Multiple	Multiple	AiRound	2020	Single	11753	300	11	33000	Global
38			Multispectral	TreeSatAI	2022	Single	50381	304	47	16300	Germany
39			Optical	CV-BrCT	2020	Single	24000	500	9	9200	Brazil
40		Satellite	Multiple	BigEarthNet-MM	2019	Single	590326*12	120	19	121000	Global
41				So2Sat LCZ42	2019	Single	400673	32	-	51800	Global
42				BrazilDAM	2020	Single	769	384	2	57000	Brazil
43				Bijie Landslide	2020	Single	2773	200	1	513	China

44				LandCoverNet As	2020	Multiple	2753	256	7	610000	Asia
45				LandCoverNet Af	2020	Multiple	1980	256	7	632000	Africa
46				LandCoverNet Au	2020	Multiple	600	256	7	126000	Australia
47				LandCoverNet Eu	2020	Multiple	840	256	7	249000	Europe
48				LandCoverNet NA	2020	Multiple	1561	256	7	351000	USA, Canada
49				LandCoverNet SA	2020	Multiple	1200	256	7	215000	South America
50				DENETHOR	2021	Multiple	2*(365 + 60*14)	8000	9	254000	Germany
51			Multispectral	BCSS	2016	Single	1311	64	4	11	Brazil
52				EuroSAT	2018	Single	27000*13	64	10	1920	Europe
53				Gaofen Image (GID)	2018	Single	150	7200	15	47000	China
54				SloveniaLandCover	2019	Single	940	500	10	190000	Slovenia
55				CV4A Kenya	2020	Multiple	8788	2500	7	3500	Kenya
56				2019 Mali CropType	2021	Multiple	33*13*41	256	4	456	Mali
57				ZueriCrop	2021	Multiple	28000*71	24	48	38500	Switzerland
58				CanCropland	2021	Single	78536*15	64	10	-	Canada
59				CropRotation	2021	Multiple	-	-	-	53400	France
60				AgriFieldNet	2022	Single	1217*12	256	13	320	India
61				ARGO	2022	Single	1750	1400	2	14300	-
62				S2-Agri	2022	Multiple	-	32	-	10800	-
63			Optical	UC Merced	2010	Single	2100	256	21	317	USA
64				WHU-RS19	2012	Single	1013	600	19	100	-
65				BCS	2015	Single	2876	64	2	4.50	Brazil
66				RSSCN7	2015	Single	2800	400	7	86	USA
67				NWPU-RESISC45	2016	Single	31500	256	45	404.7	Global
68				RSC11	2016	Single	1232	512	11	-	-
69				AID	2017	Single	10000	600	30	2440	Global
70				RSD46-WHU	2017	Single	117000	256	46	-	Global
71				RSI-CB256	2017	Single	24000	256	35	2240	Global
72				RSI-CB128	2017	Single	36000	128	45	879	Global
73				Kag. Planet Forest	2017	Single	150000	256	12	33000	Brazil
74				AID++	2018	Single	400000	-	46	-	-
75				PatternNet	2018	Single	30400	256	38	1300	USA
76				FMoW	2018	Single	523846	-	63	3500000	Global
77				xView	2018	Single	1413	3000	60	20000	Global
78				DeepGlobe-Road	2018	Single	8570	1024	1	3840	Global
79				MASATI-v2	2018	Single	7389	512	7	2300	Global
80				SanFranBay_Ships_Planet	2018	Single	4000	80	1	194	USA
81				Ship Classification	2019	Single	1951	-	7	-	Global
82				Kaggle Cloud Detection	2019	Single	9244	1750	4	6000	-
83				USTC_SmokeRS	2019	Single	6225	256	6	795	Global
84				Kag. Satellite Hurricane Damage	2019	Single	16000	128	-	64	USA
85				OVERHEAD MNIST	2020	Single	1000	28	9	17.50	Global
86				MLRSNet	2020	Single	109161	256	46	1254	Global
87				Airbus Wind Turbines Patches	2020	Single	358000	128	1	1000	Global
88				FGSCR-42	2021	Single	9320	500	42	-	Global
89				NaSC-TG2	2021	Single	20000	256	10	-	-
90				AnthroProtect	2022	Multiple	23919	256	2	18100	Europe

91				ADVANCE	2022	Single	5075	256	13	4400	Global
92				FireRisk	2023	Single	91872	-	7	14000	USA
93				SAR-based Sea Ice Dataset	2020	Single	98754	28	6	140	Norway
94				SeaIceClassification	2021	Single	6400	256	8	2900	Greenland
95				XAI4SAR	2022	Single	5915	256	-	691	Multiple Locations
96	Classification, Others	Multiple	Multiple	CropHarvest	2021	Multiple	95186	-	-	22700	Global
97	Cloud Removal	Satellite	Multiple	SEN12MS-CR	2020	Single	122218	256	-	272000	Global
98				SEN12MS-CR-TS	2021	Multiple	53	4000	-	649000	Global
99				Planet-CR (M3R-CR)	2022	Multiple	63000	300	-	-	Global
100	Object Detection	Aerial	Hyperspectral	HSI_Vehicle	2016	Multiple	157	-	1	-	Synthetic
101			Multispectral	Agriculture-Vision	2020	Single	94986	512	6	4392.50	USA
102				ArcticSeals	2021	Single	88000	6576	1	1000000	Alaska
103			Optical	VIVID - PETS2005	2007	Multiple	9283	640	1	-	-
104				TaS	2008	Single	30	792	1	970	Belgium
105				SZTAKI AirChange	2012	Multiple	13	800	2	42	Hungary
106				Massachusetts Roads	2013	Single	1171	1500	-	7552	USA
107				COWC	2016	Single	388435	256	1	64000	Multiple Locations
108				WAMI DIRSIG	2017	Single	55226	64	1	327	Synthetic
109				DOTA v1.0	2018	Single	2806	4000	15	18000	Global
110				ITCVD	2018	Single	173	5616	1	1300	-
111				DOTA v1.5	2019	Single	2806	4000	16	18000	Global
112				DLR-ACD	2019	Single	33	4458	1	-	Germany
113				NYCPlanimetric	2019	Single	2147	5000	24	2000	USA
114				DOTA v2.0	2020	Single	11268	4000	18	34280	Global
115				EAGLE	2020	Single	8820	936	-	-	-
116				EoC	2020	Single	2800	256	14	217	-
117				RSOC	2020	Single	3057	2500	4	-	-
118				SeabirdsDetection	2021	Single	1	28814	1	2200	West Africa
119				TopoBoundary	2021	Single	25297	1000	8	20000	USA
120				Urban Tree Crown Detection	2021	Single	220	512	1	200	Brazil
121				Yosemite Tree	2021	Single	1	38400	1	2700	USA
122				AISD	2022	Single	-	-	-	-	-
123			SAR	SAR_Vehicle	2005	Single	104	-	1	7500	USA
124				SAR_VD	2019	Single	104	980	1	7500	-
125		Drone	Multiple	DroneRGBT	2020	Single	3600	640	1	-	China
126				DroneVehicle	2021	Single	56878	840	5	-	China
127			Multispectral	BIRDSAI	2020	Multiple	162000	640	-	43200	South Africa
128			Optical	PKLot	2015	Single	12417	1280	1	4600	Brazil
129				Stanford Drone Dataset	2016	Multiple	-	-	6	69000	USA
130				CARPK	2016	Single	1448	1280	1	2000	-
131				AU-AIR	2020	Multiple	32823	1920	8	2200	Denmark
132				VisDrone	2020	Multiple	275437	1400	-	85000	China
133				MOR-UAV	2020	Multiple	10948	608	2	-	-
134				AMD	2021	Single	508	800	5	37	-
135				AFO	2021	Single	3647	3840	2	5000	-
136				MultiDrone	2021	Multiple	259793	1280	9	-	China
137				AnimalDrone	2021	Single	53644	-	-	-	-

138				DroneCrowd	2022	Multiple	33600	1920	1	10400	China
139				UAVOD-10	2022	Single	844	4800	10	902	-
140				MDMT	2023	Multiple	39678	-	-	25800	China
141		Multiple	Optical	WHU Building	2018	Single	25577	512	1	25000	New Zealand
142				EU Flood	2018	Single	3710	1280	4	5600	Europe
143		Satellite	Multispectral	DSTL16B	2016	Single	1350	3391	10	7300	-
144				ALCD	2019	Single	38	1830	-	234	-
145				WHUS2-CD+	2021	Single	36	10980	-	27800	China
146			Optical	NWPU-VHR10	2014	Single	800	1000	10	73	Global
147				DSTL3B	2016	Single	450	3391	10	12870	-
148				HRSC2016	2017	Single	1061	1100	26	8000	-
149				RSOD	2017	Single	946	1000	4	309	-
150				PlanesNet	2017	Single	32000	20	-	390	USA
151				SpaceNet-4	2018	Single	60000	900	-	186000	USA
152				Kag. Airbus Ship Detection	2018	Single	192556	768	-	30000	-
153				Oil Storage Tanks	2019	Single	10000	512	1	3000	Global
154				Bridges	2019	Single	500	3822	1	1450	Global
155				MTARSI	2019	Single	9385	256	1	480	Global
156				SIMD	2019	Single	5000	1024	15	1000	Global
157				built-structure-count	2019	Single	5364	512	-	2000	Global
158				RarePlanes	2020	Single	713348	512	110	318000	Global
159				FGSD	2020	Single	4736	930	43	-	-
160				FAIR1M	2020	Single	15266	5000	37	120000	Global
161				TGRS-HRRSD	2020	Single	21761	930	13	9000	-
162				AI-TOD	2020	Single	28036	-	-	22000	-
163				LEVIR-Ship	2021	Single	3896	512	1	821	-
164				Flying Airplanes	2021	Multiple	8000	-	1	491000	Europe
165				Airbus Oil Storage Detection	2021	Single	98	2560	1	101	Global
166				Airbus Aircraft Detection	2021	Single	103	2560	1	92	Global
167				NASADEbris	2021	Single	707	256	1	73	Multiple Locations
168				ShipRSImageNet	2021	Single	3435	930	1	4300	-
169				SWIM	2021	Single	14610	768	1	12000	Global
170				SaRNet	2021	Single	2552	1000	1	894	USA
171				Satellite Pool Detection	2022	Single	14912	512	1	3700	-
172				RampBuilding	2022	Single	96284	256	1	24825	Global
173				VISO	2022	Multiple	15455	12000	4	8600	-
174				HRPlanesv2	2022	Single	2120	4800	1	8100	Global
175				OnlyPlanes	2022	Single	12500	1024	1	15000	Synthetic
176				Buildings_Containers_Cranes	2022	Single	-	2500	3	3000	-
177				DIOR	-	Single	23463	800	20	-	-
178				PSDS	-	Single	1310	900	1	-	Peru
179				MSDS900	-	Single	2993	900	1	-	-
180				MSDSfull	-	Single	200	4800	1	-	-
181			SAR	MSTAR	1996	Single	-	-	-	-	-
182				SSDD	2017	Single	1160	500	1	995	Global
183				OpenSARShip	2017	Single	11346	-	17	870	China
184				OpenSARShip 2.0	2017	Single	34528	120	17	870	China

185				Iceberg Detection	2018	Single	10028	75	-	290	Canada
186				SAR Ship Detection	2019	Single	43819	256	1	407	Asia
187				AIR-SARShip-1.0	2019	Single	31	3000	1	200	Multiple Locations
188				AIR-SARShip-2	2020	Single	300	1000	1	224	Multiple Locations
189				LS-SSDD	2020	Single	15	20000	1	7800	-
190				HRSID	2020	Single	5604	800	1	581	Multiple Locations
191				xView3-SAR	2021	Single	991*2	27000	2	2000000	Global
192				DSSDD	2021	Single	1236	256	1	1270	-
193				SRSDDD-v1.0	2021	Single	666	1024	6	713	Asia
194				MSAR	2022	Single	28449	256	4	2500	-
195				SADD	2022	Single	2966	224	1	-	-
196				RSDD-SAR	2022	Single	7000	512	-	-	-
197				SMCDD	-	Single	-	-	-	-	-
198		-	-	LEVIR	2016	-	21952	800	3	-	-
199	Object Detection, Classification	Aerial	Optical	NOAA Sea Lion	2017	Single	950	4900	4	96000	Alaska
200		Drone	Optical	Forest Damages – Larch Casebearer	2021	Single	1543	1500	4	3300	Sweden
201				ReforesTree	2022	Single	100	4000	6	7500	Ecuador
202		Multiple	Multiple	IDTReeS	2020	Single	591*369	20	33	280	USA
203			Optical	Humpback Whale Identification	2018	Single	25460	1050	-	700	Multiple Locations
204		Satellite	SAR	FUSAR-Ship	2020	Single	5000	512	113	-	-
205	Object Detection, Others	Aerial	Multiple	NEON Tree Dataset	2021	Single	2174*426	40	1	8400	USA
206	Object Detection, Semantic Segmentation	Aerial	Multiple	VALID	2020	Single	6690	1024	30	15700	Synthetic
207		Satellite	Multispectral	WHU Cloud	2020	Single	859	512	1	3650	China
208	Semantic Segmentation	Aerial	Hyperspectral	DFC08	2008	Single	-	-	5	194	Italy
209				Chikusei	2016	Single	1*128	2517	19	1400	Japan
210				AeroRIT	2019	Single	1	3900	-	1800	USA
211				HOSD	2022	Single	18*224	1700	1	2200	Gulf of Mexico
212			Multiple	DFC13	2013	Single	145	-	16	1000	USA
213				DFC14	2014	Single	-	-	7	-	Canada
214				DFC15	2015	Single	7	10000	-	-	Belgium
215				DFC18	2018	Single	1	-	20	19763	USA
216				MUESLI	2021	Single	1*415	12800	41	37700	France
217				DFC22-SSL	2022	Single	5000	2000	14	42000	France
218				GeoNRW	2022	Single	7783*3	1000	10	30000	Germany
219			Multispectral	ISPRS 2D - Potsdam	2011	Single	38	6000	6	16000	Germany
220				ISPRS 2D - Vaihingen	2011	Single	33	2200	6	17000	Germany
221				SemCity Toulouse	2020	Single	16	3500	-	5200	France
222			Optical	Aerial Image Segmentation	2013	Single	80	512	-	7	Synthetic
223				INRIA	2017	Single	360	1500	1	19510	Multiple Locations
224				CITY-OSM	2017	Single	21	2500	-	23800	Multiple Locations
225				SynthAer	2018	Single	765	1280	8	1000	Synthetic
226				Aeroscapes	2018	Single	3269	1280	11	752	-
227				AerialLanes18	2018	Single	20	5616	-	-	-
228				DLR-SkyScapes	2019	Single	16	4680	31	-	Germany
229				AIRS	2019	Single	1047	10000	1	17600	-
230				BHPools&WaterTanks	2020	Single	350	3000	1	1900	Brazil

231				iSAID	2020	Single	2806	4000	15	6544	Global
232				Synthinel-1	2020	Single	2108	572	1	1000	Synthetic
233				LandCoverAI	2020	Single	41	9000	-	1400	Poland
234				TTPLA	2020	Single	1100	3840	-	4200	USA
235				MiniFrance	2022	Single	2121	10000	12	93100	France
236				FLAIR #1	2022	Single	77412	512	13	70000	France
237		Drone	Hyperspectral	WHU-Hi	2020	Single	3	1217	11	817	-
238			Multispectral	RIT-18	2018	Single	1	9300	-	1500	USA
239				GrowliFlower	2022	Multiple	8402	256	4	11700	Germany
240			Optical	Semantic Drone	2019	Single	400	5000	20	4000	Austria
241				ManipalUAVid	2019	Single	711	1280	4	1049	India
242				UAVid	2020	Single	420	4000	-	5880	-
243				FloodNet	2021	Single	2343	4000	10	12100	USA
244				RescueNet	2021	Single	4494	3500	12	21800	USA
245				DoriaNet	2021	Multiple	2409	1280	3	67	USA
246		Multiple	Multiple	DFC17	2017	Multiple	-	-	17	-	Multiple Locations
247				SpaceNet-6	2020	Single	3401	900	1	368	Netherlands
248				MultimodalBen	2021	Single	568	680	30	489	Multiple Locations
249				UOPNOA	2021	Single	36000	-	-	9700	Spain
250				NDWS	2022	Multiple	18445*12	64	1	2000	USA
251				FireCube	2022	Multiple	4314*58	700	1	23500	Greece
252				WildfireDanger	2022	Multiple	-	-	1	17000	-
253			Optical	OpenEarthMap	2022	Single	5000	1024	8	9100	Global
254		Satellite	Multiple	DFC07	2007	Single	1	787	-	19	Italy
255				SEN1-2	2018	Single	282384	256	-	43700	Global
256				Chesapeake Land Cover	2019	Single	250000	240	16	140000	-
257				DFC20	2020	Single	180662	-	17	19200	Global
258				SEN-12-FLOOD	2020	Multiple	336	-	1	12200	Global
259				Ghana Crop Type	2020	Multiple	2881*14*25	64	5	312000	Ghana
260				South Sudan Crop Type	2020	Multiple	687*14*25	64	5	977000	Sudan
261				DFC21-DSE	2021	Single	6000	16	4	18000	Malawi
262				PASTIS-R	2021	Multiple	2433	128	18	54000	France
263				MultiSenGE	2022	Multiple	1084260*12	256	14	530000	France
264				MapInWild	2022	Single	1018*8	1920	11	365000	Global
265				Landslide4Sense	2022	Single	4844*14	128	1	2400	Global
266				C2S-MS	2022	Single	1800	512	3	12000	Global
267				S12_ScotInd_Cloud	2022	Multiple	-	-	1	960	Scotland, India
268				Burned Area Delineation	2022	Multiple	-	-	-	14000	Europe
269			Multispectral	38-Cloud	2018	Single	17601	384	1	16000	Global
270				95-Cloud	2020	Single	34701	384	1	18000	Global
271				Kag. Satellite Water Bodies	2020	Single	2841	1000	1	274	Global
272				HKH Glacier Mapping	2020	Single	14190*15	512	2	29400	Asia
273				ActiveFireL8	2020	Single	2000000*10	128	1	546000	South America
274				AIR-CD	2020	Single	34	7300	1	12000	China
275				MARIDA	2021	Single	1381*10	256	15	1200	Global
276				SmallholderPlant	2021	Single	70*13	1180	6	1000	Benin
277				S2-SHIPS	2021	Single	16*16	1783	3	2900	-

278				FloatingObjects	2021	Single	-	-	-	15400	Global
279				Sen4AgriNet	2021	Multiple	-	-	-	261750	France, Spain
280				PASTIS	2021	Multiple	2433*45*10	128	18	29000	France
281				SeasoNet	2022	Single	1759830	120	33	229000	Germany
282				OpenSentinelMap	2022	Multiple	137045	192	15	445000	Global
283				Sat_Burn_Area	2022	Multiple	73*14	1500	1	14000	Europe
284				NASA-Harvest	2022	Multiple	70	256	1	300	Rwanda
285			Optical	Zurich Summer	2015	Single	20	1000	-	132	Switzerland
286				SpaceNet-1	2016	Single	9735	650	1	31000	Multiple Locations
287				SpaceNet-2	2017	Single	24586	650	1	182200	Multiple Locations
288				SpaceNet-3	2017	Single	3711	1300	1	182200	Multiple Locations
289				DLRSD	2018	Single	2100	256	21	4	USA
290				DeepGlobe-LandCover	2018	Single	1146	2448	7	2750	Global
291				CrowdAI Mapping	2018	Single	401755	300	1	5335	-
292				SpaceNet-5	2019	Single	2369	1300	1	84103	Multiple Locations
293				STGAN Cloud Removal	2019	Single	217190	256	1	1500	Global
294				SpaceNet-7	2020	Multiple	1525	1024	1	20582	Global
295				Kag. Satellite Buildings	2020	Single	6038	256	1	878	-
296				Kag. Massachusetts Buildings	2020	Single	151	1500	1	3000	USA
297				DubaiSemSeg	2020	Single	72	800	6	32	UAE
298				GTA-V SID	2020	Single	121	500	-	100	Synthetic
299				Rwanda Built-Up	2020	Single	787	256	1	70	Rwanda
300				LoveDA	2021	Single	5987	1024	7	9600	China
301				SpaceNet-8	2022	Multiple	1200*2	1200	2	6800	Multiple Locations
302				RDCME	2022	Single	775	256	1	-	-
303				OnCloudN	2022	Single	22728	512	1	50000	Africa
304				UBC	2022	Single	800	600	61	675	Multiple Locations
305			SAR	PolSF	2019	Single	5	-	6	-	USA
306				OpenSARUrban	2020	Single	33358	100	10	2200	China
307				FUSAR-Map	2020	Single	610	1024	4	-	China
308				ETCI2021	2021	Single	66810	256	2	5300	Multiple Locations
309				MMFlood	2022	Multiple	1748*2	2000	1	11300	Global
310		-	-	EvLab-SS	2017	-	60	4500	11	-	-
311	Semantic Segmentation, Classification	Drone	Multispectral	FLAME	2020	Multiple	47992	3840	2	43655	USA
312		Satellite	Multiple	SEN12MS	2019	Single	180662	256	-	510000	Global
313				DFC23	2023	Single	-	-	12	-	Global
314			Multispectral	S2 Cloud Mask Catalogue	2020	Single	513*13	1022	25	15380	-
315			Optical	DeepGlobe-Bldng	2018	Single	24586	650	1	-	Global
316	Super Resolution, Pan-Sharpning	Aerial	Multispectral	DFC06	2006	Single	6	5000	-	390	Multiple Locations
317		Satellite	Hyperspectral	PRISMA Pan Sharp	2022	Single	4	2400	-	1700	Italy
318			Multispectral	Proba-V Super Resolution	2018	Single	1160	384	-	692	Global
319				PAirMAX (Airbus)	2021	Single	-	-	-	153	Multiple Locations
320				SEN2VENµS	2022	Single	132955	256	-	85000	Multiple Locations
321				Mu-S2	2022	Single	1274	100	-	2800	-
322			Optical	ALSAT-2B	2021	Single	5518	256	-	70	Multiple Locations
323				PushFrameSR	2021	Multiple	960*15	256	-	1100	-
324				PAirMAX (MAXAR)	2021	Single	14	-	-	386	Multiple Locations

325				WorldStrat	2022	Single	3928	1054	-	107000	Global
326				MultiExposureSR	2022	Multiple	-	-	-	743	-
327				Jilin1_VidSR	2022	Multiple	6250	3000	-	19400	-
328	Others	Aerial	Hyperspectral	SPYSTUF	2021	Single	1*128	16000	-	29000	Finland
329				DLR-HySU	2021	Single	1*135	123	-	5	Germany
330			Multiple	ForestCanopyHeight	2019	Single	1105	-	-	62900	Mexico
331			Optical	HighDenseMatching	2014	Single	186	15000	-	72000	Switzerland
332				WHU MVS/Stereo	2020	Single	1776	5376	-	98000	China
333				WHU Multi-View	2020	Single	28400	768	-	12600	China
334				WHU Stereo	2020	Single	21868	768	-	8600	China
335				RSVQA-HR	2020	Single	10659	512	-	14400	USA
336				DenseMatchAerial	2021	Single	1092*2	1024	-	3300	Germany
337		Drone	Hyperspectral	ALPACA	2020	Single	-	-	-	37000	Peru
338			Multiple	MidAir	2019	Single	420000	1024	-	1000000	Synthetic
339			Optical	ERA	2020	Single	343680	640	-	6300	Global
340		Multiple	Multiple	DFC19	2019	Single	-	-	-	-	USA
341				GeoLifeCLEF	2020	Single	6700000	256	-	840000	Multiple Locations
342				GeoLifeCLEF 2022	2020	Single	-	-	-	-	Multiple Locations
343				GeoLifeCLEF 2021	2021	Single	-	-	-	-	Multiple Locations
344				DREAM	2021	Single	-	1024	-	68000	Multiple Locations
345				SustainBench	2021	Multiple	-	-	-	302000	-
346				MDAS	2022	Single	-	-	-	35000	Germany
347				PLP	2022	Single	-	-	-	160000	Greece
348			Optical	UAE-RS	2022	Single	6050	500	-	1012	Multiple Locations
349				SyntCities	2022	Single	16200	1024	13	38200	Synthetic
350		Satellite	Multiple	QXS-SAROPT	2021	Single	40000	256	-	2700	Multiple Locations
351				MultimodalSupCD	2021	Multiple	-	96	-	660	Global
352				SSL4EO-S12	2022	Multiple	251079	264	-	1500000	Global
353				SAR2Opt	2022	Single	-	600	-	691	Global
354				SEN12TP	2023	Single	2319	-	-	221600	Global
355			Multispectral	SPARCS	2016	Single	80	1000	-	1400	-
356				CloudCast	2020	Multiple	70080	1229	-	328000	Europe
357				Hurricane Wind Speed	2021	Single	114634	366	-	1500	Global
358				TIRMSS	2021	Single	16000	192	-	8450	-
359				EarthNet2021	2021	Single	32000	128	-	600000	-
360			Optical	DFC16	2016	Multiple	-	-	-	-	Canada
361				GTA_BEV_SVA	2017	Single	1000000	1920	-	350000	Synthetic
362				RoadTracer	2017	Single	40	8150	1	83	-
363				RSICD	2017	Single	10921	224	-	459	Global
364				SPEED	2019	Single	15300	1920	-	4900	-
365				SatStereo	2019	Single	144	-	-	127000	Multiple Locations
366				Satellite Pose Estimation	2020	Single	15300	1920	-	4600	-
367				RSVQA-LR	2020	Single	772	256	-	150	Netherlands
368				SPEED+	2021	Single	69531	1920	-	20000	-
369				RSITMD	2021	Single	4743	-	-	568	Global
370				RSVQAxBEN	2021	Single	590326	120	-	28600	Global
371				Phenology	2022	Multiple	114*24*5	3333	-	56000	North America

372			SAR	SeaIceContent	2021	Multiple	6	25600	-	245	Greenland
373				Hephaestus	2022	Multiple	110573	224	-	105000	Global
374				AI4Arctic Sea Ice	2022	Single	-	-	-	-	-
375		-	-	ExtremeEarth	2021	-	-	-	-	246	Greenland
376		-	-	Africa MiniCubes	2021	-	-	-	-	47000	Africa
377		-	-	mesogeos	2023	-	-	-	-	-	Multiple Locations
378		-	-	So2Sat POP	-	-	-	-	-	40000	Europe
379		-	-	Olive tree	-	-	10	4000	-	-	-
380		-	-	MAFAT Challenge	-	-	-	-	-	-	-

* Colors are used for better visualization of the table.

Optical: Optical 3-channel (sometimes NIR added) imagery

Multiple (platform): Dataset contains data acquired using/from multiple platforms

Multiple (sensor type): Dataset contains data with multiple modalities

Multiple (timestamps): Dataset contains more than one single image in each date

Index	Task	Platform	Time Stamps	Name	Pub. Date	Point Density (pts/m2)	#Classes	#Points	Volume (MB)	Geographic Diversity (coverage)
1	Change Detection	ALS	Multiple	Abenberg ALS	2013	16	-	5400000	258	Abenberg, Germany
2	Classification	ALS	Single	NEWFOR	2015	varies	4	-	97	Multiple Locations
3				DFC19	2019	-	6	167400000	613	Jacksonville (Florida) and Omaha (Nebraska) , USA
4		ALS	Single	ISPRS 3D Vaihingen	2014	8	9	780879		Vaihingen, Germany
5		Multiple	Single	ArCH	2020	varies	10	136138423	-	Multiple Locations
6	Classification / Semantic Segmentation	ALS	Single	DublinCity	2019	240 to 348	13	260000000	3000	Dublin, Ireland
7	Filtering	ALS	Single	OpenGF	2021	6 and 14	3	542100000	2280	Multiple Locations
8	Object Detection / Semantic Segmentation	TLS	Single	LiSurveying	2021	varies	54	2450000000	-	British Columbia, Canada
9	Other	ALS	Single	RoofN3D	2018	4.72	3	118100	-	New York, USA
10	Semantic Segmentation	ALS	Single	LASDU	2020	3-4	6	3120000	-	Heihe River, China
11			Single	DALES	2020	50	8	505000000	4000	Surrey, British Columbia, Canada
12			Single	DALES Object	2021	50	8	492000000	5000	Surrey, British Columbia, Canada
13		Drone	Single	Campus3D	2020	varies	24	937000000	2500	Singapore
14			Multiple	Hessigheim 3D	2021	800	11	73909354	5950	Hessigheim, Germany
15		Drone	Single	WildForest3D	2022	60	6	7000000	81	Aquitaine, France
16		MLS	Single	Toronto3D	2020	1000	8	78300000	1100	Toronto, Canada
17			Multiple	HelixNet	2022	-	9	8850000000	235700	Multiple Locations
18		Photogrammetry	Single	SensatUrban	2020	-	13	2847000000	36000	UK
19			Single	STPLS3D	2022	-	20	-	36600 (imgs:700000)	Synthetic
20		TLS	Single	Semantic 3D	2017	-	8	4000000000	23940	Central Europe

ALS: Airborne Laser Scanner

TLS: Terrestrial Laser Scanner

MLS: Mobile Laser Scanner

Photogrammetry: Point clouds which are generated using photogrammetric techniques, such as SfM, etc.

Multiple (time stamps): Dataset contains more than one single image in each date

Multiple (platform): Dataset contains data acquired using/from multiple platforms