

European Monitoring of Biodiversity in Agricultural Landscapes (EMBAL)

- Sampling Strategy 2022 / 2023 -

February 2023

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Authors: EFTAS

EMBAL Sampling design

1. EMBAL Master Sample Frame

The EMBAL master frame for EU-27 is based on the LUCAS master grid 2017¹ (1,029,825 points). The LUCAS master grid point represents the centre point of the EMBAL 500x500m plot in ETRS89/LAEA Europe (EPSG 3035).

The following criteria have been used to select possible EMBAL plots:

Technical selection criteria

- Minimum 20% agricultural land according to CLC (569,867 plots)
- Plots intersected by borders of BIOGEO subregions excluded
- Plots intersected by borders of Member State are excluded
- Plots intersected by coastlines are excluded
- Crosscheck: Only plots with full 25.0 ha are allowed (564,145 plots)

Content selection criteria

- Plots > 1,500 m altitude are excluded (see EMBAL pilot “Sampling Scenario III”)
- Plots in small BIOGEO subregions with 6% agricultural land or below are excluded (see EMBAL pilot “Sampling Scenario III”)
- Islands < 5,000 km² are excluded (e.g. Mallorca, Ibiza, Gotland)

Exceptions: Islands connected to the main land by roads are included (e.g. Funen and Lolland in Denmark)

Exception: Saaremaa island in Estonia included, represents large proportion of country area and good connection to main land.

For the update of the sample for the 2023 survey the following selection criteria was introduced to the sampling:

- Plots north of 66° are excluded (update in 2023, see chapter 5)

2. Stratification

The EMBAL master frame is stratified according to:

- Member state EU-27
- BIOGEO Subregions: combining 7 Biogeographical regions and 4 altitude zones (Figure 1)

¹ <https://ec.europa.eu/eurostat/web/lucas/data/lucas-grid>

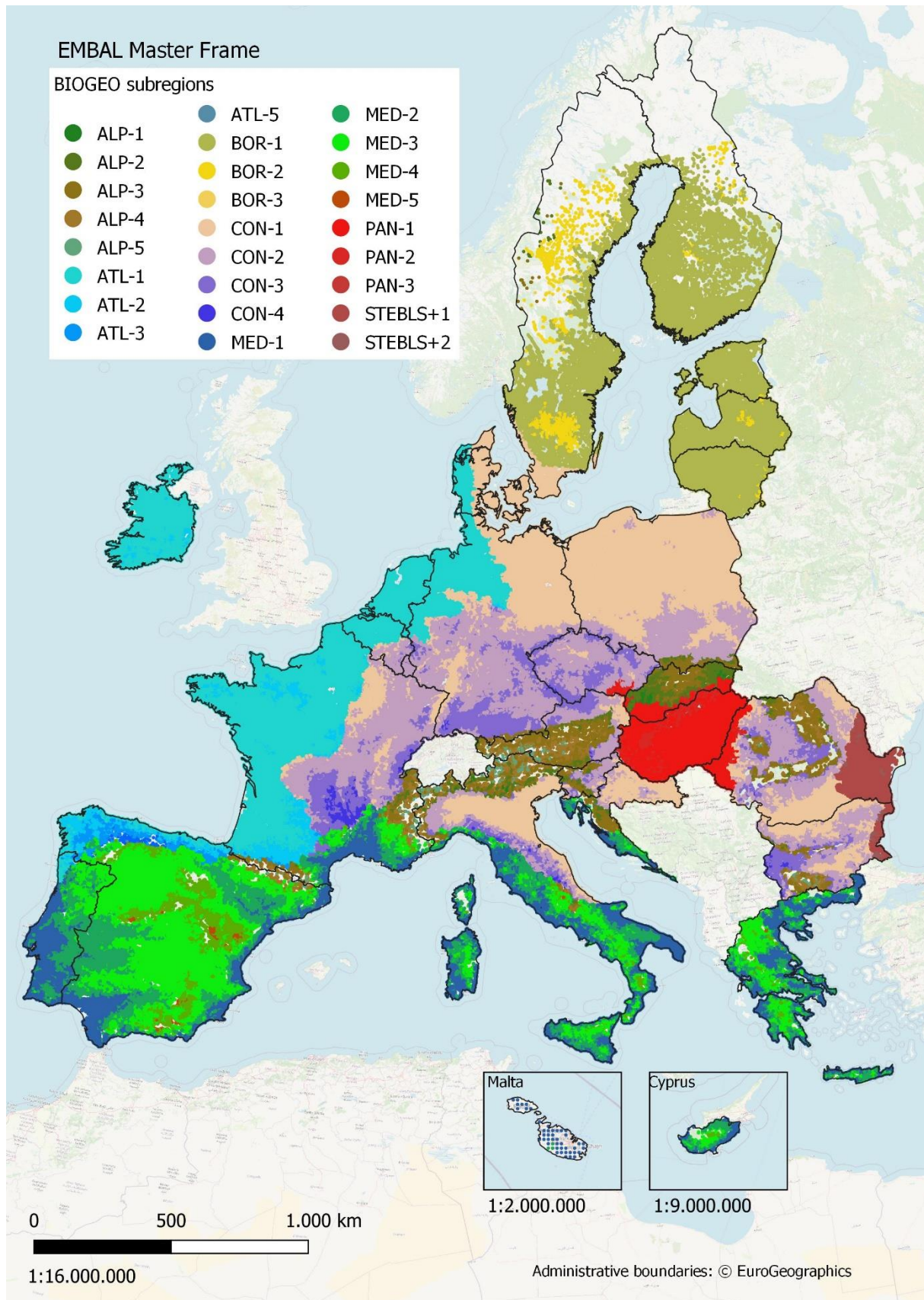


Figure 1: EMBAL Master BIOGEO subregions

3. Number of sample plots

For the EMBAL 2022-2023 rollout a total of 3,000 sample plots (EMBAL pilot Scenario III) are selected.

The number of sample plots per strata is calculated by:

Number of sample plots per Member States (EU-27):

- 20 “baseline plots” per Member State (=540)
- additional 10 plots per BIOGEO subregions (Heterogeneity factor) (=1,550 plots)
- Breakdown of the remaining 910 plots according to the proportion of agricultural land per Member State in relation to the whole EU-27 area.
- Maximum number of samples per member state: 250
- If there are more than 250 plots per Member State (France and Spain), these plots are distributed proportionally among the other countries.
- Minimum number of samples per member state: 60 (except Malta = 30)
- If there are less than 60 plots per Member State (LU, LV, NL, FI, DL, EE) they receive a share from the other countries distributed proportionally.

Figure 2 shows the calculation table for the number of sample plots per country.

		No. of plots (EU-27)							Allocation factors for countries below limit for "max"/"min" plots									
		I.	II.	III.	IV.	V.	I. Min. No. of plots per MS	II. Extra plots due to BIOGEO	III. 3,000 plots minus baseline	Subtotal (1)	Checking g max. plots	Area dep. Surplus plots (1)	Subtotal (2)	Checking min. plots	Area dep. Surplus plots (2)	pre - Total	Total rounded to total	
Baseline		Minimum number of plots per Member State (MS)	Extra plots per country per BIOGEO region (heterogeneity factor)	Plots to be divided according to share of agricultural land	Max. No. of plots per country	Min. No. of plots per country 60 (except 30 for MT)												
Area dependent																		
		Area [km ²]	EU-27 Area [%]	AL [km ²]	AL [%]	No. of BIOGEO subregi												
AT	83.871	2.0%	27.174	32%	1.7%	7	20	70	16	108	-144	2.1	108	0	-12	106.4	107	AT
BE	30.528	0.7%	13.585	45%	0.9%	5	20	50	8	78	-172	1.1	79	0	-0.6	78.2	78	BE
BG	110.879	2.6%	45.017	41%	2.8%	9	20	90	26	136	-110	3.5	139	0	-2.0	137.2	137	BG
CY	9.251	0.2%	1.119	12%	0.1%	4	20	40	1	61	-185	0.1	61	0	-0.1	60.7	60	CY
CZ	78.867	1.9%	35.332	45%	2.2%	6	20	60	20	100	-150	2.8	103	0	-1.6	101.3	101	CZ
DE	357.022	8.4%	168.871	47%	10.6%	9	20	90	96	206	-44	13.2	220	0	-7.6	212.0	212	DE
DK	43.098	1.0%	26.850	62%	1.7%	2	20	20	15	55	-195	2.1	57	0	2.6	60.0	60	DK
EE	45.227	1.1%	10.357	23%	0.6%	2	20	20	6	46	-204	0.8	47	13	13.3	60.0	60	EE
EL	131.957	3.1%	46.185	35%	2.9%	4	20	40	26	86	-164	3.6	90	0	-2.1	87.9	88	EL
ES	505.370	11.9%	233.481	46%	14.6%	10	20	100	133	253	3	-	250	0	-	250.0	250	ES
FI	336.418	8.0%	24.366	7%	1.5%	2	20	20	14	54	-198	1.9	56	4	4.2	60.0	60	FI
FR	643.801	15.2%	282.629	44%	17.7%	15	20	150	161	331	81	-	250	0	-	250.0	250	FR
HR	56.594	1.3%	15.846	28%	1.0%	9	20	90	9	119	-13	1.2	120	0	-0.7	118.6	120	HR
HU	93.028	2.2%	47.630	51%	3.0%	2	20	20	27	67	-183	3.7	71	0	-2.1	68.8	69	HU
IE	70.273	1.7%	49.964	71%	3.1%	2	20	20	29	69	-181	3.9	72	0	-2.2	70.2	70	IE
IT	301.336	7.1%	127.465	42%	8.0%	12	20	120	73	213	-37	10.0	223	0	-5.7	217.0	217	IT
LT	65.300	1.5%	30.495	47%	1.9%	3	20	30	17	67	-183	2.4	70	0	-1.4	68.4	69	LT
LU	2.586	0.1%	1.306	51%	0.1%	3	20	30	1	51	-199	0.1	51	3	9.2	60.0	60	LU
LV	64.559	1.5%	19.690	31%	1.2%	2	20	20	11	51	-199	1.5	53	7	7.2	60.0	60	LV
MT	316	0.0%	113	36%	0.0%	1	20	10	0	30	-220	0.0	30	0	0.0	30.0	30	MT
NL	37.354	0.9%	19.611	53%	1.2%	2	20	20	11	51	-199	1.5	53	7	7.3	60.0	60	NL
PL	312.685	7.4%	146.649	47%	9.2%	6	20	60	84	164	-98	11.5	175	0	-6.8	168.6	168	PL
PT	92.090	2.2%	36.636	40%	2.3%	7	20	70	21	111	-135	2.9	114	0	-1.5	112.2	112	PT
RO	238.391	5.6%	127.301	53%	8.0%	11	20	110	73	203	-47	10.0	213	0	-5.7	206.9	207	RO
SE	450.295	10.6%	33.322	7%	2.1%	6	20	60	19	99	-191	2.6	102	0	-1.5	100.1	100	SE
SI	20.273	0.5%	4.306	24%	0.3%	8	20	80	3	103	-147	0.4	103	0	-0.2	103.0	103	SI
SK	49.035	1.2%	19.026	39%	1.2%	6	20	60	11	91	-159	1.5	92	0	-0.9	91.5	92	SK
	4,232,405		1,595,128				540	1,550	910	3,000	84	84	3000	-44	0	3000	3000	

Figure 2: Calculation of number of sample plots per Member state

Number of sample plots per BIOGEO subregion in each Member state:

- Distribution of sample plots proportional to share of plots from a specific BIOGEO subregion in a Member state with target to reach EU-27 number of plots per BIOGEO subregion identified in Embal Pilot - Scenario III
- If a BIOGEO subregion is present in a country, but the proportion is too small to calculate a plot in the sample, they are still considered with 1 plot, (see highlighted “1” in cross table” Figure 3).

Figure 3 shows the cross tabulation of sample plots allocated to Member state and BIOGEO subregion:

- Rows: Fixed number of sample plots per Member State
- Columns: Proportional allocated number of sample plots per BIOGEO subregion

REGION	ALP-1	ALP-2	ALP-3	ALP-4	ATL-1	ATL-2	ATL-3	BOR-1	BOR-2	CON-1	CON-2	CON-3	CON-4	MED-1	MED-2	MED-3	MED-4	PAN-1	PAN-2	STEBL-S+1	STEBL-S+2	Sum per country
AT		8	35	25						6	20	12	1									107
BE					56	1				4	15	2										78
BG		1	6	7						34	30	13	7							12	27	137
CY														25	19	11		5				60
CZ										2	42	29	1					7	20			101
DE		1	1	1	52	1				63	58	33	2									212
DK					21					39												60
EE								56	4													60
EL														30	25	27	6					88
ES		1	1	1	2	8	44							9	31	101	52					250
FI								54	6													60
FR	1	1	3	3	99	33	7			11	30	17	32	5	4	3	1					250
HR		4	15							67	10	1		9	12	2						120
HU																		53	16			69
IE					63	7																70
IT	8	5	7	11						42	15	7	5	32	44	34	7					217
LT								61	8													69
LU										2	54	4										60
LV								48	12													60
MT					59	1								27	3							30
NL																						60
PL		2	6	1						128	30	1										168
PT					4	2	2							29	40	32	3					112
RO		3	16	6						30	29	9	1					35	4	48	26	207
SE		1	1					43	51	3	1											100
SI	7	12	25	4						10	32	11	2									103
SK	34	13	8	1														23	13			92
Sum per BioGeo	50	52	124	60	356	53	53	262	81	441	366	139	51	166	178	210	74	118	53	60	53	3000

Figure 3: Allocation of sample plots per country and BIOGEO subregion

4. Selection of sample plots for the field survey

The sample plots for the field survey are selected from EMBAL 2020 EU-27 master per strata (Member state and BIOGEO subregion) using a stratified random selection process (statistical sample).

The randomized selection process ensures statistical rigorous sampling in the different strata (Member state and BIOGEO subregion) for analysis on the different strata of the EMBAL 2020 EU-27 master population.

The selected plots are visually pre-checked if they fulfil the minimum requirements to be included in the field survey:

- Minimum proportion of agricultural land in the plot
- Accessibility to the plot (presence of access road(s))
- Accessibility within the plot (plots which are divided by major obstacles e.g. a highway, or major river, are excluded to reduce the survey time).

Plots not suitable for the field sample are excluded and replaced with plots from the same strata.

To optimize the balance between travel and survey time, a decision was made to artificially increase the number of survey plots on the islands Corsica and Crete.

In Crete, the number of plots has been augmented by 5. This adjustment takes into consideration the approximate number of plots that would have been allocated on other Greece islands excluded from the sampling due to their smaller size (Figure 5).

In Corsica, the number of plots was increased by 2. This increase was achieved by reducing the number of samples in Sardinia by 2 (Figure 4).

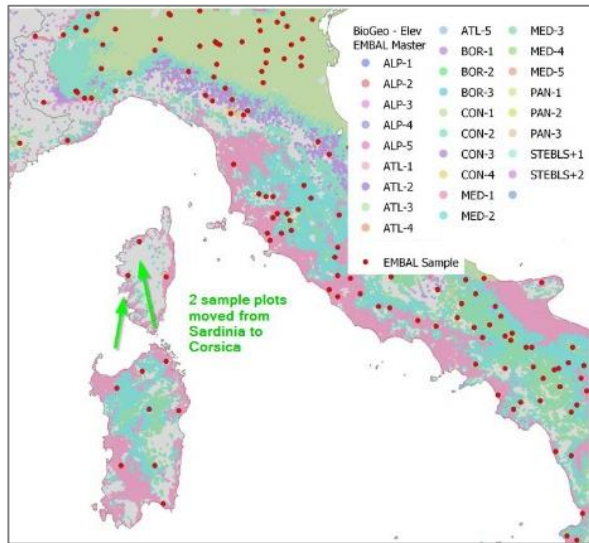


Figure 4: Sample plot allocation in Corsica and Sardinia

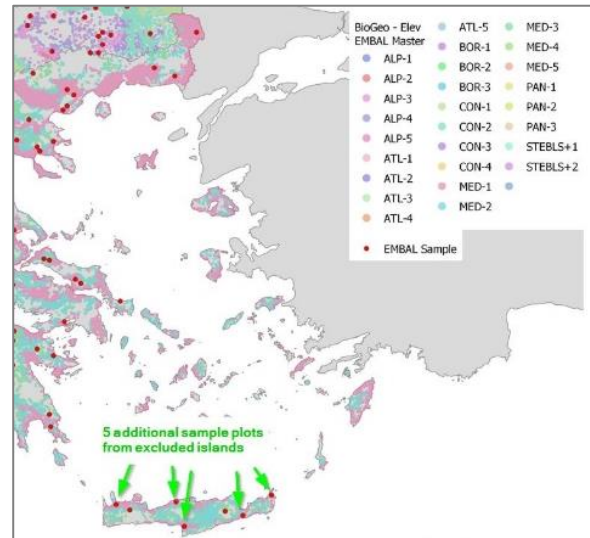


Figure 5: Sample plot allocation in Crete

Figure 6 shows the allocation of 3000 EMBAL plots over the Biogeographical regions.

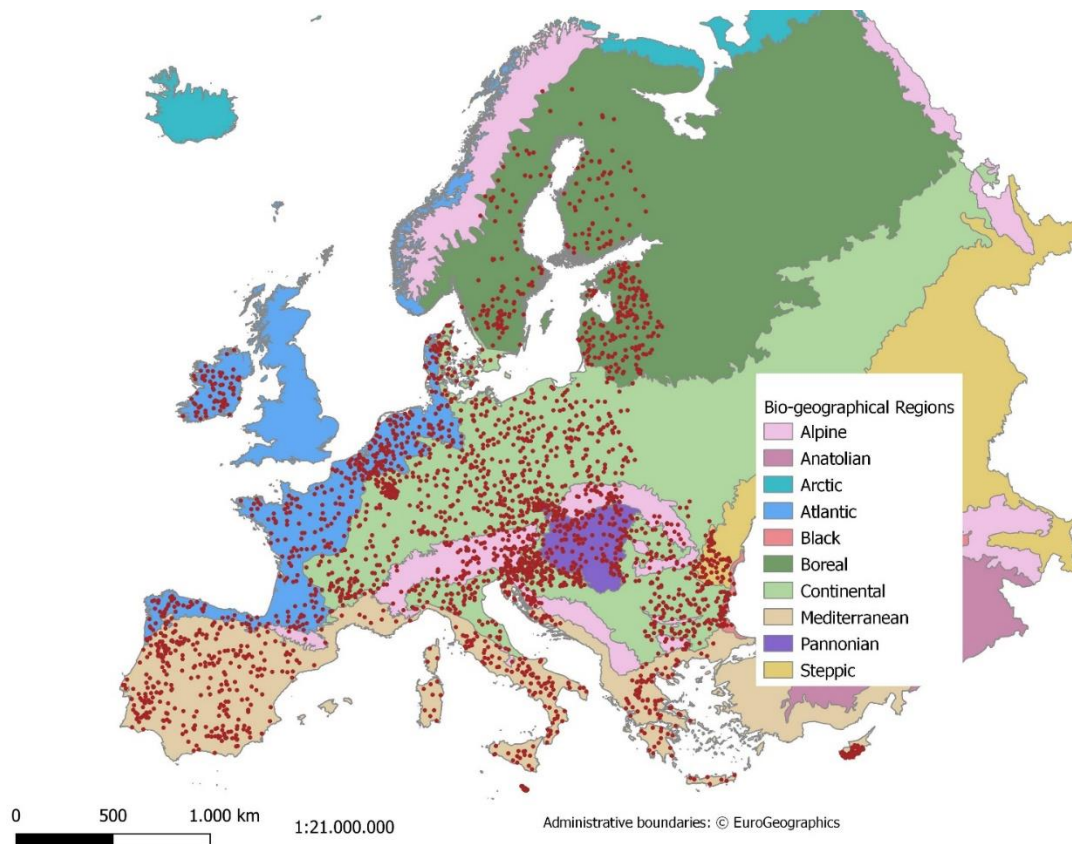


Figure 6: Allocation of 3,000 EMBAL sample plots

5. Update of EMBAL 2023 sample

During the EMBAL 2022 survey, 107 sample plots could not be surveyed due to various reasons:

no or limited access	restricted by landowner	military zone / border area	dangerous area / animals	other	Total
73	22	5	4	3	107

For the 2023 survey, these plots were replaced with plots from the same strata, using the same sampling protocol.

Based on the experience from the 2022 survey, it was observed that accessing the sample plots in the far northern areas was very challenging, especially considering the minimal agricultural activities in those regions. As a result, a decision was made to exclude all possible sample plots located north of 66°. Figure 7 shows the affected plots from the EMBAL Master and the 7 plot from the 2022 sample.

The 7 sample plots that had been selected for the 2022 sample in these areas were subsequently removed from the sample and reallocated within the same strata, following the established sampling protocol.

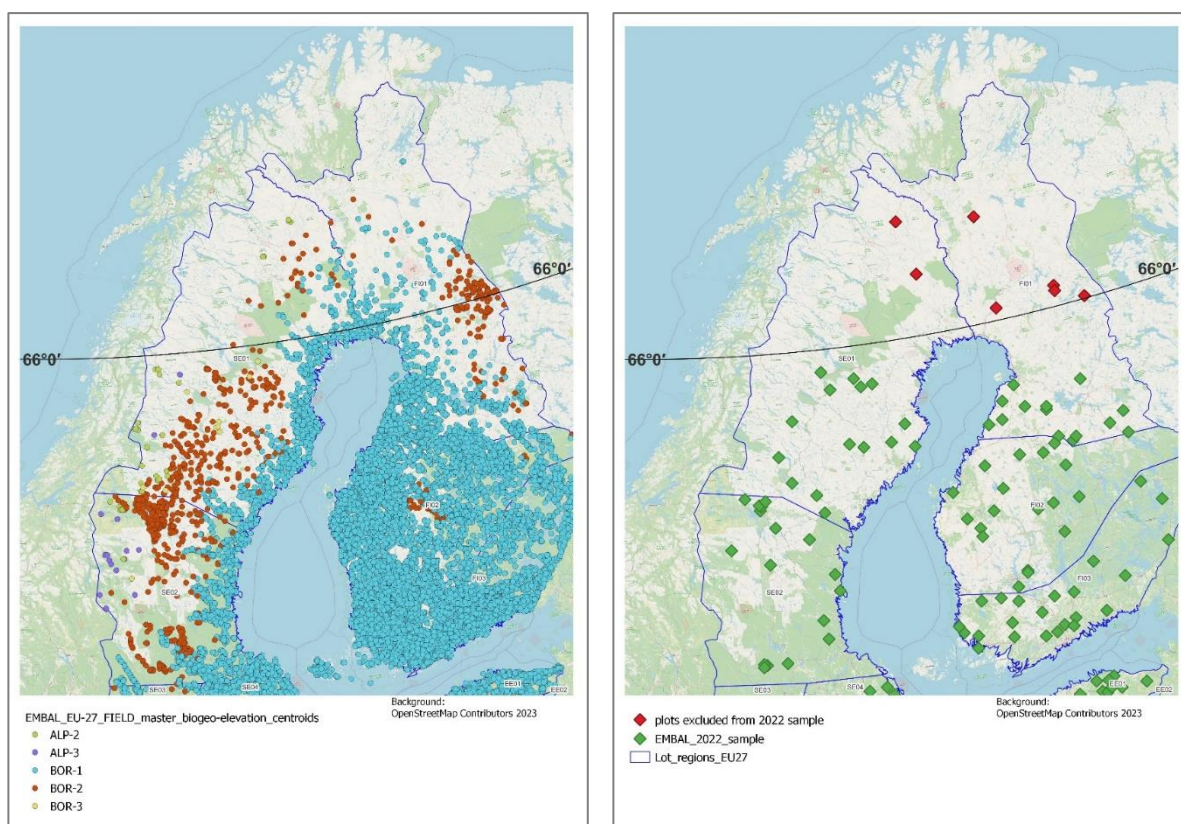


Figure 7: Excluding Plots north of 66°

Figure 8 shows the 107 removed and new sample plots for the survey 2023. In total 2,893 plots have remained in the sample 2023.

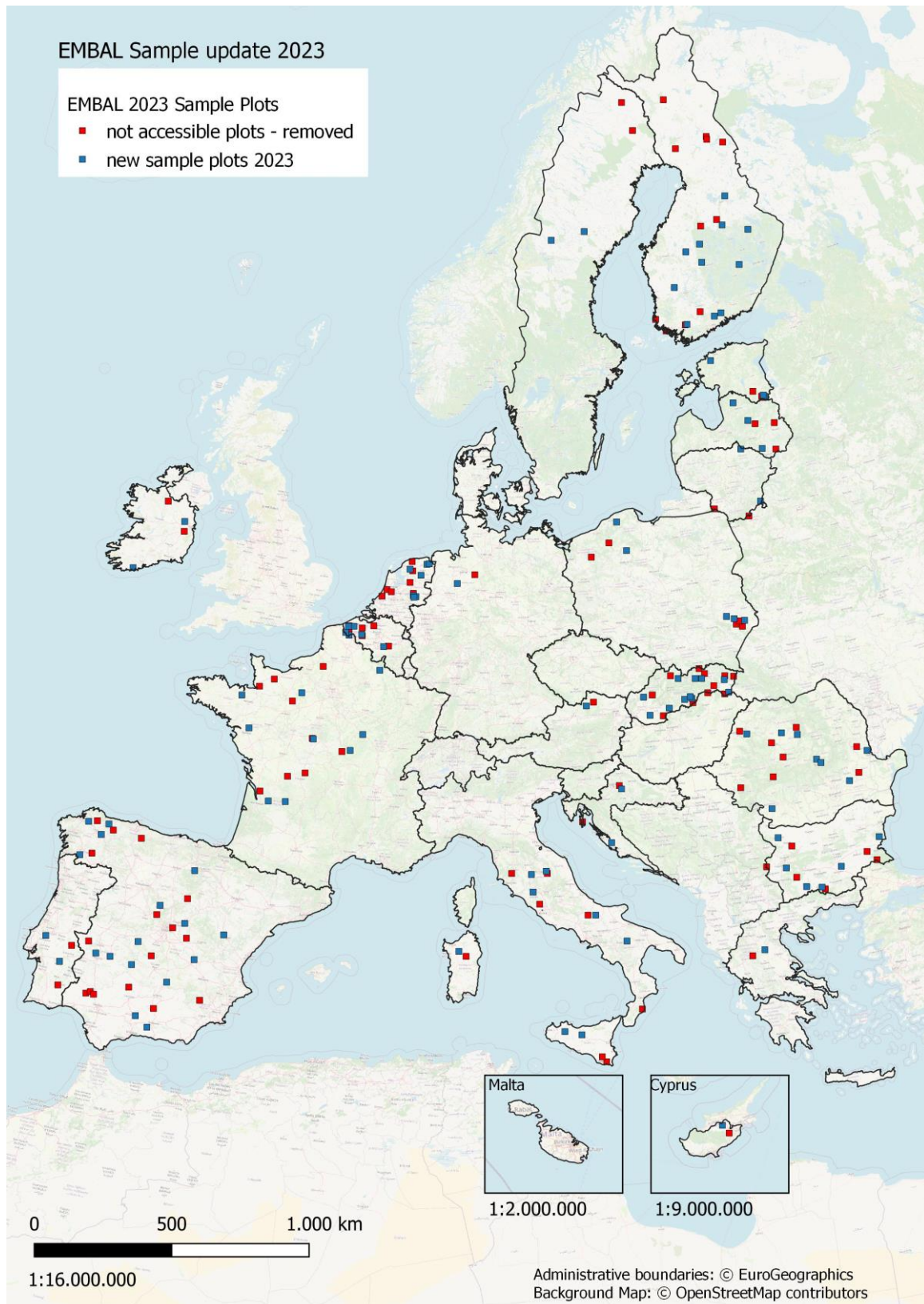


Figure 8: Sample update for 2023

6. Survey timing

The optimal survey period for each plot is based on biogeographical subregions and altitude according to the LUCAS Grassland survey periods and described in detail in the EMBAL Survey Protocol v1.0²

Figure 9 and Figure 10 show the location and optimal survey period of the EMBAL plots 2022 and 2023.

EMBAL Sample 2022

EMBAL 2022 Sample - Survey period [3000]

- April 4 (16.-30.04.) [25]
- April 5 (21.04.-05.05.) [19]
- April 6 (26.04.-10.05.) [104]
- May 1 (01.-15.05.) [280]
- May 2 (06.-20.05.) [214]
- May 3 (11.-25.05.) [701]
- May 4 (16.-30.05.) [637]
- May 5 (21.05.-05.06.) [443]
- May 6 (26.05.-10.06.) [296]
- June 1 (01.-15.06.) [58]
- June 2 (06.-20.06.) [131]
- June 3 (11.-25.06.) [32]
- June 4 (16.-30.06.) [43]
- June 5 (21.06.-05.07.) [17]

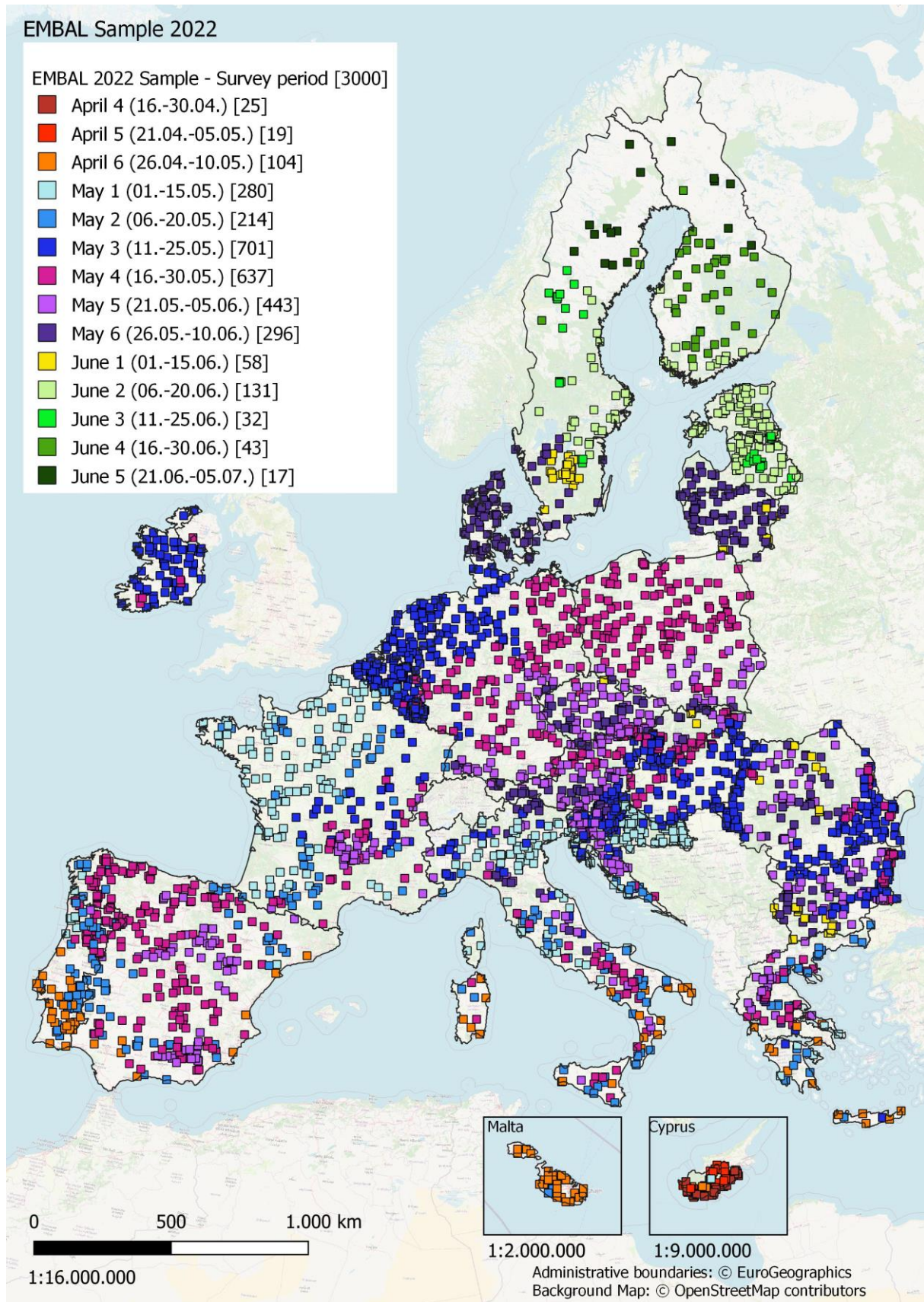


Figure 9: EMBAL 2022 sample plots optimal survey period

EMBAL Sample 2023

EMBAL 2023 Sample - Survey period [3000]

- April 4 (16.-30.04.) [25]
- April 5 (21.04.-05.05.) [19]
- April 6 (26.04.-10.05.) [104]
- May 1 (01.-15.05.) [280]
- May 2 (06.-20.05.) [214]
- May 3 (11.-25.05.) [702]
- May 4 (16.-30.05.) [636]
- May 5 (21.05.-05.06.) [443]
- May 6 (26.05.-10.06.) [296]
- June 1 (01.-15.06.) [58]
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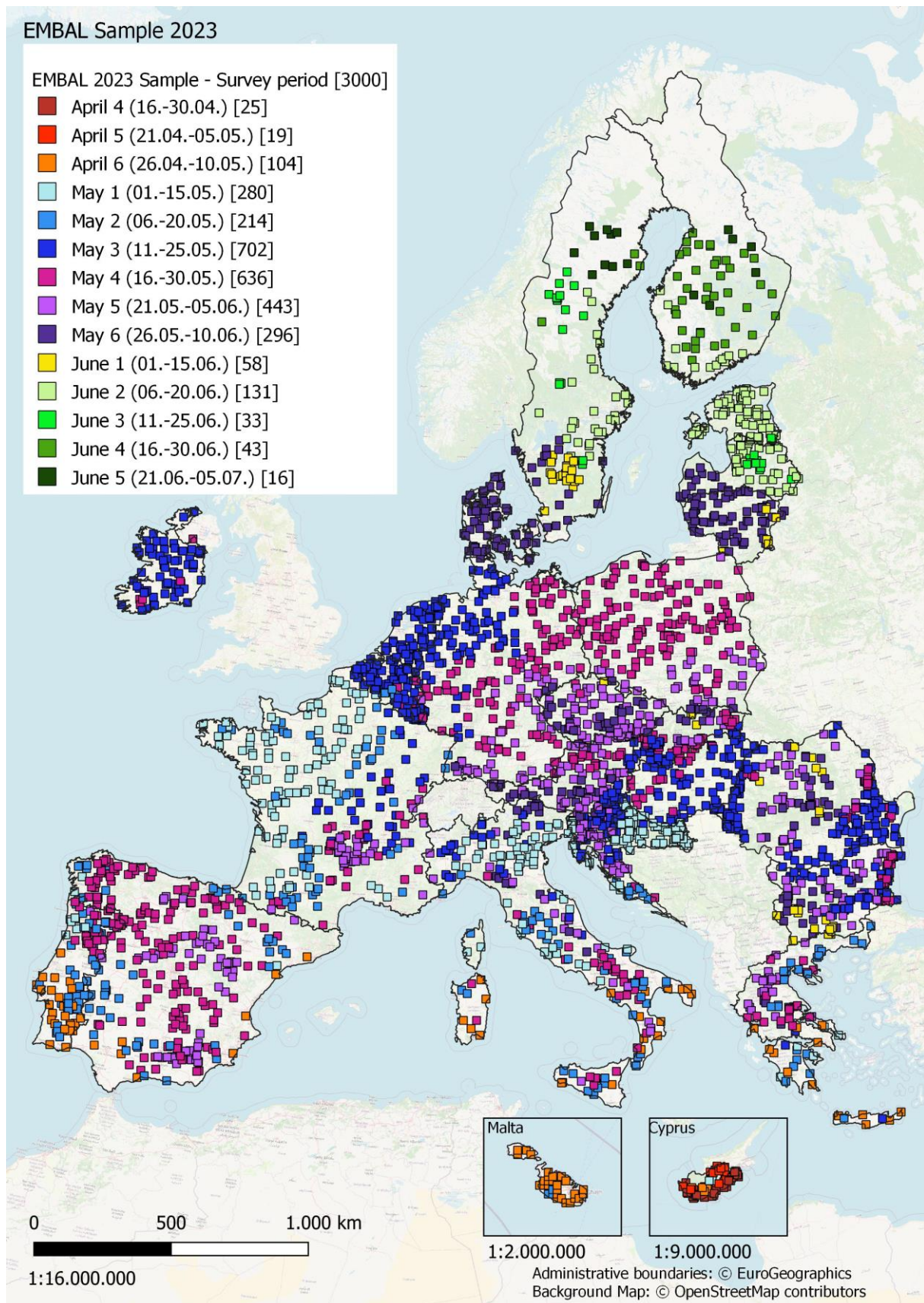


Figure 10: EMBAL 2023 sample plots optimal survey period

7. Sampling weights

The EMBAL sample plots have been selected through a stratified sampling design, with Member state and BIOGEO subregion being the strata. A key characteristic of stratified sampling is the varying probability of selecting samples across these strata. This variability arises from differences in the sizes of strata and the number of sample units selected within each stratum.

To account for this inherent variation in sampling probabilities, it is vital to apply appropriate sample weights when consolidating results at higher levels, such as country, biogeographical region, or the EU level. These weights ensure that the final estimates accurately represent the entire population, taking into account the stratified design of the sample. Since the sample plots have been selected randomly within each strata, the sample weights are the same within the same strata.

The sample weights are the inverse of the selection probability of an individual plot and are calculated for each strata:

Selection probability per strata $f_h = n_h / N_h$

Sample weight per strata $= 1/f_h = N_h / n_h$

where N_h is the number of sample plots in strata h in the Master Frame and n_h is the number of sampled plots in the strata.

Since the sample weight changes with the number of observed plots, the sample weights are calculated based on the number of actual observed plots. This is done to adjust for any discrepancies between the intended sample size and the actual number of observed plots.

Table 1 provide the sample weights for the EMBAL Survey results 2022 and Table 2 provide the sample weights for the EMBAL Survey results 2023

Sample weights 2022

Table 1: Sample weights EMBAL 2022

Strata (Country-BIOGEO-Altitude)	Number observed sample plots 2022	Weight	Selection probability
AT-ALP-2	8	68.6250000	0.0145719
AT-ALP-3	35	61.8571429	0.0161663
AT-ALP-4	25	28.1600000	0.0355114
AT-CON-1	6	150.5000000	0.0066445
AT-CON-2	20	179.2500000	0.0055788
AT-CON-3	11	126.5454545	0.0079023
AT-CON-4	1	14.0000000	0.0714286
BE-ATL-1	52	71.2884615	0.0140275
BE-ATL-2	1	4.0000000	0.2500000
BE-CON-1	4	75.7500000	0.0132013
BE-CON-2	15	94.9333333	0.0105337
BE-CON-3	2	60.0000000	0.0166667
BG-ALP-3	6	70.8333333	0.0141176
BG-ALP-4	5	57.4000000	0.0174216
BG-CON-1	33	201.4545455	0.0049639
BG-CON-2	29	230.1034483	0.0043459
BG-CON-3	13	144.6923077	0.0069112
BG-CON-4	7	15.4285714	0.0648148
BG-STEELS+1	12	65.8333333	0.0151899
BG-STEELS+2	26	9.0769231	0.1101695
CY-MED-1	25	7.8800000	0.1269036
CY-MED-2	18	16.7777778	0.0596026

CY-MED-3	11	12.2727273	0.0814815
CY-MED-4	5	4.0000000	0.2500000
CZ-CON-1	2	211.0000000	0.0047393
CZ-CON-2	42	211.6904762	0.0047239
CZ-CON-3	29	135.3448276	0.0073885
CZ-CON-4	1	15.0000000	0.0666667
CZ-PAN-1	7	48.0000000	0.0208333
CZ-PAN-2	20	17.9000000	0.0558659
DE-ALP-2	1	9.0000000	0.1111111
DE-ALP-3	1	134.0000000	0.0074627
DE-ALP-4	1	13.0000000	0.0769231
DE-ATL-1	51	268.4313725	0.0037253
DE-ATL-2	1	121.0000000	0.0082645
DE-CON-1	62	312.6612903	0.0031983
DE-CON-2	58	364.5172414	0.0027434
DE-CON-3	33	231.0909091	0.0043273
DE-CON-4	2	23.5000000	0.0425532
DK-ATL-1	21	129.6190476	0.0077149
DK-CON-1	39	147.9487179	0.0067591
EE-BOR-1	55	90.2363636	0.0110820
EE-BOR-2	3	12.0000000	0.0833333
EL-MED-1	30	245.4666667	0.0040739
EL-MED-2	25	152.2000000	0.0065703
EL-MED-3	26	110.5769231	0.0090435
EL-MED-4	6	31.6666667	0.0315789
ES-ALP-2	1	1.0000000	1.0000000
ES-ALP-3	1	43.0000000	0.0232558
ES-ALP-4	1	105.0000000	0.0095238
ES-ATL-1	2	711.5000000	0.0014055
ES-ATL-2	8	256.3750000	0.0039005
ES-ATL-3	40	45.1500000	0.0221484
ES-MED-1	9	876.6666667	0.0011407
ES-MED-2	29	617.5172414	0.0016194
ES-MED-3	92	390.7608696	0.0025591
ES-MED-4	51	107.3529412	0.0093151
FI-BOR-1	40	253.2250000	0.0039491
FI-BOR-2	1	79.0000000	0.0126582
FR-ALP-1	1	7.0000000	0.1428571
FR-ALP-2	1	220.0000000	0.0045455
FR-ALP-3	3	203.6666667	0.0049100
FR-ALP-4	3	121.6666667	0.0082192
FR-ATL-1	95	501.9894737	0.0019921
FR-ATL-2	32	234.5000000	0.0042644
FR-ATL-3	7	33.5714286	0.0297872
FR-CON-1	11	561.3636364	0.0017814
FR-CON-2	28	706.0000000	0.0014164
FR-CON-3	17	407.4117647	0.0024545
FR-CON-4	32	36.1250000	0.0276817
FR-MED-1	5	694.2000000	0.0014405
FR-MED-2	4	491.0000000	0.0020367
FR-MED-3	3	427.0000000	0.0023419
FR-MED-4	1	125.0000000	0.0080000
HR-ALP-2	4	28.0000000	0.0357143
HR-ALP-3	15	25.1333333	0.0397878
HR-CON-1	66	63.8787879	0.0156546
HR-CON-2	10	79.0000000	0.0126582
HR-CON-3	1	15.0000000	0.0666667
HR-MED-1	9	76.4444444	0.0130814
HR-MED-2	12	50.6666667	0.0197368
HR-MED-3	2	38.5000000	0.0259740
HU-PAN-1	53	296.5849057	0.0033717
HU-PAN-2	16	118.8125000	0.0084166
IE-ATL-1	61	201.8196721	0.0049549
IE-ATL-2	7	98.2857143	0.0101744
IT-ALP-1	8	7.6250000	0.1311475
IT-ALP-2	5	112.8000000	0.0088652
IT-ALP-3	7	115.0000000	0.0086957
IT-ALP-4	11	51.6363636	0.0193662

IT-CON-1	42	265.8571429	0.0037614
IT-CON-2	15	312.5333333	0.0031997
IT-CON-3	6	244.8333333	0.0040844
IT-CON-4	5	18.0000000	0.0555556
IT-MED-1	32	363.1562500	0.0027536
IT-MED-2	39	264.7179487	0.0037776
IT-MED-3	32	152.3750000	0.0065628
IT-MED-4	7	44.5714286	0.0224359
LT-BOR-1	60	189.2833333	0.0052831
LT-BOR-2	8	20.3750000	0.0490798
LU-CON-1	2	6.5000000	0.1538462
LU-CON-2	54	7.7592593	0.1288783
LU-CON-3	4	5.0000000	0.2000000
LV-BOR-1	41	207.8048780	0.0048122
LV-BOR-2	11	22.2727273	0.0448980
MT-MED-1	26	1.6923077	0.5909091
MT-MED-2	3	1.0000000	1.0000000
NL-ATL-1	52	126.5576923	0.0079015
NL-ATL-2	1	3.0000000	0.3333333
PL-ALP-2	2	164.0000000	0.0060976
PL-ALP-3	6	132.3333333	0.0075567
PL-ALP-4	1	3.0000000	0.3333333
PL-CON-1	126	332.8968254	0.0030039
PL-CON-2	27	444.7407407	0.0022485
PL-CON-3	1	167.0000000	0.0059880
PT-ATL-1	4	117.0000000	0.0085470
PT-ATL-2	2	54.0000000	0.0185185
PT-ATL-3	2	10.0000000	0.1000000
PT-MED-1	28	204.2500000	0.0048960
PT-MED-2	39	123.7435897	0.0080812
PT-MED-3	32	74.5312500	0.0134172
PT-MED-4	3	19.0000000	0.0526316
RO-ALP-2	3	148.0000000	0.0067568
RO-ALP-3	16	140.3125000	0.0071269
RO-ALP-4	6	69.3333333	0.0144231
RO-CON-1	30	354.2333333	0.0028230
RO-CON-2	27	440.9259259	0.0022680
RO-CON-3	7	344.7142857	0.0029010
RO-CON-4	1	14.0000000	0.0714286
RO-PAN-1	35	91.7428571	0.0109000
RO-PAN-2	3	53.0000000	0.0188679
RO-STEBS+1	46	172.8695652	0.0057847
RO-STEBS+2	26	13.9230769	0.0718232
SE-BOR-1	34	286.0294118	0.0034961
SE-BOR-2	38	35.7631579	0.0279617
SE-CON-1	3	808.3333333	0.0012371
SE-CON-2	1	1.0000000	1.0000000
SI-ALP-1	7	1.0000000	1.0000000
SI-ALP-2	12	15.3333333	0.0652174
SI-ALP-3	25	14.2000000	0.0704225
SI-ALP-4	4	5.7500000	0.1739130
SI-CON-1	10	31.4000000	0.0318471
SI-CON-2	32	41.9062500	0.0238628
SI-CON-3	11	24.9090909	0.0401460
SI-CON-4	2	2.5000000	0.4000000
SK-ALP-1	32	12.0312500	0.0831169
SK-ALP-2	10	227.9000000	0.0043879
SK-ALP-3	6	236.1666667	0.0042343
SK-ALP-4	1	31.0000000	0.0322581
SK-PAN-1	22	109.5000000	0.0091324
SK-PAN-2	11	47.9090909	0.0208729

Sample weights 2023

Table 2: Sample weights EMBAL 2023

Strata (Country-BIOGEO-Altitude)	Number observed sample plots 2023	Weight	Selection probability
AT-ALP-2	8	68.6250000	0.0145719
AT-ALP-3	35	61.8571429	0.0161663
AT-ALP-4	25	28.1600000	0.0355114
AT-CON-1	6	150.5000000	0.0066445
AT-CON-2	20	179.2500000	0.0055788
AT-CON-3	12	116.0000000	0.0086207
AT-CON-4	1	14.0000000	0.0714286
BE-ATL-1	56	66.1964286	0.0151066
BE-ATL-2	1	4.0000000	0.2500000
BE-CON-1	4	75.7500000	0.0132013
BE-CON-2	15	94.9333333	0.0105337
BE-CON-3	2	60.0000000	0.0166667
BG-ALP-2	1	44.0000000	0.0227273
BG-ALP-3	6	70.8333333	0.0141176
BG-ALP-4	7	41.0000000	0.0243902
BG-CON-1	34	195.5294118	0.0051143
BG-CON-2	30	222.4333333	0.0044957
BG-CON-3	12	156.7500000	0.0063796
BG-CON-4	6	18.0000000	0.0555556
BG-STEBS+1	12	65.8333333	0.0151899
BG-STEBS+2	27	8.7407407	0.1144068
CY-MED-1	25	7.8800000	0.1269036
CY-MED-2	19	15.8947368	0.0629139
CY-MED-3	11	12.2727273	0.0814815
CY-MED-4	5	4.0000000	0.2500000
CZ-CON-1	2	211.0000000	0.0047393
CZ-CON-2	42	211.6904762	0.0047239
CZ-CON-3	29	135.3448276	0.0073885
CZ-CON-4	1	15.0000000	0.0666667
CZ-PAN-1	7	48.0000000	0.0208333
CZ-PAN-2	20	17.9000000	0.0558659
DE-ALP-2	1	9.0000000	0.1111111
DE-ALP-3	1	134.0000000	0.0074627
DE-ALP-4	1	13.0000000	0.0769231
DE-ATL-1	52	263.2692308	0.0037984
DE-ATL-2	1	121.0000000	0.0082645
DE-CON-1	62	312.6612903	0.0031983
DE-CON-2	58	364.5172414	0.0027434
DE-CON-3	31	246.0000000	0.0040650
DE-CON-4	2	23.5000000	0.0425532
DK-ATL-1	21	129.6190476	0.0077149
DK-CON-1	38	151.8421053	0.0065858
EE-BOR-1	54	91.9074074	0.0108805
EE-BOR-2	4	9.0000000	0.1111111
EL-MED-1	30	245.4666667	0.0040739
EL-MED-2	25	152.2000000	0.0065703
EL-MED-3	27	106.4814815	0.0093913
EL-MED-4	6	31.6666667	0.0315789
ES-ALP-2	1	1.0000000	1.0000000
ES-ALP-3	1	43.0000000	0.0232558
ES-ALP-4	1	105.0000000	0.0095238
ES-ATL-1	2	711.5000000	0.0014055
ES-ATL-2	8	256.3750000	0.0039005
ES-ATL-3	44	41.0454545	0.0243632
ES-MED-1	9	876.6666667	0.0011407
ES-MED-2	31	577.6774194	0.0017311
ES-MED-3	101	355.9405941	0.0028095
ES-MED-4	52	105.2884615	0.0094977
FI-BOR-1	53	191.1132075	0.0052325
FI-BOR-2	6	13.1666667	0.0759494
FR-ALP-1	1	7.0000000	0.1428571
FR-ALP-2	1	220.0000000	0.0045455

FR-ALP-3	3	203.6666667	0.0049100
FR-ALP-4	3	121.6666667	0.0082192
FR-ATL-1	98	486.6224490	0.0020550
FR-ATL-2	33	227.3939394	0.0043977
FR-ATL-3	7	33.5714286	0.0297872
FR-CON-1	11	561.3636364	0.0017814
FR-CON-2	30	658.9333333	0.0015176
FR-CON-3	17	407.4117647	0.0024545
FR-CON-4	32	36.1250000	0.0276817
FR-MED-1	5	694.2000000	0.0014405
FR-MED-2	4	491.0000000	0.0020367
FR-MED-3	3	427.0000000	0.0023419
FR-MED-4	1	125.0000000	0.0080000
HR-ALP-2	4	28.0000000	0.0357143
HR-ALP-3	13	29.0000000	0.0344828
HR-CON-1	66	63.8787879	0.0156546
HR-CON-2	10	79.0000000	0.0126582
HR-CON-3	1	15.0000000	0.0666667
HR-MED-1	9	76.4444444	0.0130814
HR-MED-2	12	50.6666667	0.0197368
HR-MED-3	2	38.5000000	0.0259740
HU-PAN-1	53	296.5849057	0.0033717
HU-PAN-2	16	118.8125000	0.0084166
IE-ATL-1	63	195.4126984	0.0051174
IE-ATL-2	7	98.2857143	0.0101744
IT-ALP-1	8	7.6250000	0.1311475
IT-ALP-2	5	112.8000000	0.0088652
IT-ALP-3	7	115.0000000	0.0086957
IT-ALP-4	11	51.6363636	0.0193662
IT-CON-1	42	265.8571429	0.0037614
IT-CON-2	15	312.5333333	0.0031997
IT-CON-3	6	244.8333333	0.0040844
IT-CON-4	5	18.0000000	0.0555556
IT-MED-1	32	363.1562500	0.0027536
IT-MED-2	38	271.6842105	0.0036807
IT-MED-3	31	157.2903226	0.0063577
IT-MED-4	7	44.5714286	0.0224359
LT-BOR-1	61	186.1803279	0.0053711
LT-BOR-2	8	20.3750000	0.0490798
LU-CON-1	2	6.5000000	0.1538462
LU-CON-2	54	7.7592593	0.1288783
LU-CON-3	4	5.0000000	0.2000000
LV-BOR-1	43	198.1395349	0.0050469
LV-BOR-2	11	22.2727273	0.0448980
MT-MED-1	27	1.6296296	0.6136364
MT-MED-2	3	1.0000000	1.0000000
NL-ATL-1	58	113.4655172	0.0088133
NL-ATL-2	1	3.0000000	0.3333333
PL-ALP-2	1	328.0000000	0.0030488
PL-ALP-3	5	158.8000000	0.0062972
PL-ALP-4	1	3.0000000	0.3333333
PL-CON-1	125	335.5600000	0.0029801
PL-CON-2	30	400.2666667	0.0024983
PL-CON-3	1	167.0000000	0.0059880
PT-ATL-1	4	117.0000000	0.0085470
PT-ATL-2	2	54.0000000	0.0185185
PT-ATL-3	2	10.0000000	0.1000000
PT-MED-1	27	211.8148148	0.0047211
PT-MED-2	39	123.7435897	0.0080812
PT-MED-3	32	74.5312500	0.0134172
PT-MED-4	3	19.0000000	0.0526316
RO-ALP-2	2	222.0000000	0.0045045
RO-ALP-3	16	140.3125000	0.0071269
RO-ALP-4	5	83.2000000	0.0120192
RO-CON-1	30	354.2333333	0.0028230
RO-CON-2	27	440.9259259	0.0022680
RO-CON-3	9	268.1111111	0.0037298
RO-PAN-1	32	100.3437500	0.0099657

RO-PAN-2	4	39.7500000	0.0251572
RO-STEBLS+1	47	169.1914894	0.0059105
RO-STEBLS+2	26	13.9230769	0.0718232
SE-ALP-2	1	29.0000000	0.0344828
SE-ALP-3	1	16.0000000	0.0625000
SE-BOR-1	40	243.1250000	0.0041131
SE-BOR-2	48	28.3125000	0.0353201
SE-CON-1	3	808.3333333	0.0012371
SE-CON-2	1	1.0000000	1.0000000
SI-ALP-1	7	1.0000000	1.0000000
SI-ALP-2	12	15.3333333	0.0652174
SI-ALP-3	25	14.2000000	0.0704225
SI-ALP-4	4	5.7500000	0.1739130
SI-CON-1	10	31.4000000	0.0318471
SI-CON-2	32	41.9062500	0.0238628
SI-CON-3	11	24.9090909	0.0401460
SI-CON-4	2	2.5000000	0.4000000
SK-ALP-1	34	11.3235294	0.0883117
SK-ALP-2	13	175.3076923	0.0057043
SK-ALP-3	7	202.4285714	0.0049400
SK-ALP-4	1	31.0000000	0.0322581
SK-PAN-1	23	104.7391304	0.0095475
SK-PAN-2	13	40.5384615	0.0246679