



HELLENIC REPUBLIC
**National and Kapodistrian
University of Athens**
— EST. 1837 —

Royal
Botanic
Gardens **Kew**



MILLENNIUM
SEED BANK
PARTNERSHIP

Conserving the Flora of the Balkans: Native Plants of Greece

Report for the Millennium Seed Bank Project Partnership, Royal Botanic Gardens, Kew

Project Period Covered By This Report

Year: (3)

From: **20/02/2024 – 20/09/2024**

Date of Submission: Sep. 27, 2024

Prepared by:

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1.0 Project Overview

1.1 The NKUA Team

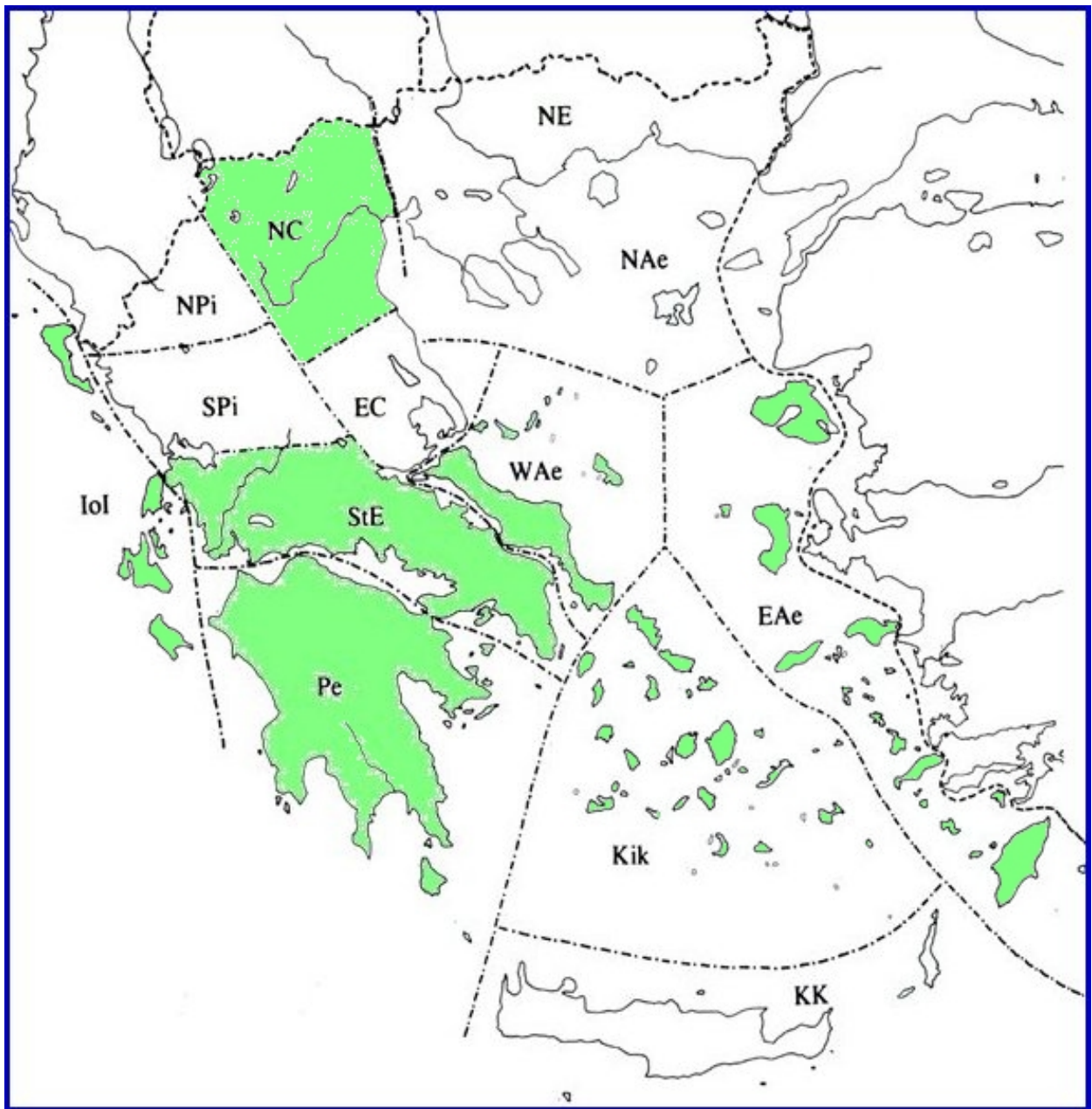
Costas A. Thanos, Professor Emeritus	Team Leader
Aikaterina Stefi, Biologist BSc, PhD, Res. Ass. (1 st & 2 nd yrs)	Lab Manager
Aikaterini Koutsovoulou, Biologist BSc, PhD, Researcher	Leader of Germination & Storage
Apostolos Kaltsis, Biologist BSc, MSc, Researcher	Leader of Seed Collecting & Data
Spyridon Oikonomidis, Biologist BSc, PhD, Res. Ass.	Senior Collector, Student Researcher
Aikaterini Goula, Biologist BSc, PhD	Taxonomist
Konstantina Mitsigiorgi, Biol. BSc, PhD St. (1 st & 2 nd yrs)	Field and Lab associate
Sofoklis Mouratidis, Biologist BSc, PhD Student	Field and Lab associate
Alexandros Bantounas, Biologist BSc, PhD Student (3 rd yr)	Field and Lab associate
Nikolaos Katsikis, Biology Student (1 st & 2 nd yrs)	Field and Lab associate
Konstantinos Maramathas, BSc	Field and Lab associate
Maria Chalikiopoulou, Biology Student (1 st & 2 nd yrs)	Field and Lab associate
Anna Boziki, Biology Student (1 st & 2 nd yrs)	Field and Lab associate
Fermele Bashari, Biology Student (1 st & 2 nd yrs)	Field and Lab associate
Fotini Tsigeli, BSc (2 nd & 3 rd year)	Field and Lab associate
Katerina Dimitriou, Biology Student (2 nd year)	Field and Lab associate
Alexandros Panagiotakis, Biology Student (2 nd year)	Field and Lab associate

1.2 The main goals of the Project

The Project is a collaboration of the Millennium Seed Bank of RBG Kew and the NKUA Seed Bank within the framework of MSB Partnership and with the highly appreciated funding from several sponsors (The A.G. Leventis Foundation, Players of People's Postcode Lottery, Linde, The Steel Charitable Trust & Navarino).

The main goals of the 3rd year of the Project are:

- 1. Ex situ Conservation.** Seed collections of 158 species from all over Greece including a third of all accessible ENSCONET Consortium target species in southern mainland Greece (30% of the species). At least 25% of the collected species will be Greek endemics. All collections will be duplicated to the MSB, associated vouchers will be lodged at Kew's herbarium, and the data will be made available through MSBP Data Warehouse.
- 2. Training and capacity building for NKUA** staff and students in seed collecting, processing and banking. In addition, research training in germination testing to MSB standards will be provided to the visiting PhD student at the MSB.
- 3. Research into germination** of collected species to support ex situ and in situ conservation of 158 native plant species from Greece's mainland. Research will be undertaken by a PhD student to investigate storage and germination of Greek Orchidaceae species. Methodology will follow ENSCONET guidelines.
- 4. Sharing and dissemination of project learning.** Seed collection data and germination protocols accessible through MSBP Data Warehouse and made public after publication by NKUA or within three years of project end. Opportunities sought to disseminate project learning through the ENSCONET Consortium, regional conferences, MSBP's Samara newsletter, and Kew's social networks. Seedlings supplied to Kew's nursery staff to support future dissemination work through planting beds and public engagement signs.



Map 1. The 13 floristic regions of Greece. Shown with green colour: Peloponnese (Pe), Central Greece (StE), Ionian Islands (Iol), West Aegean Islands (WAe), East Aegean Islands (E Ae), Cyclades Islands (Kik) and North Central Greece (NC); these are the seven (7) regions where seed collections took place (so far) during the third year of the Project.

2.0 Achievements

2.1. Seed Collections

During the period Feb. 20, 2024 till Sep. 20, 2024 we have collected seeds from 149 confirmed taxa and, in addition, ca. 10 collections not yet fully identified. We are confident that we have already achieved the accumulated goal of 500 seed collections and the 125 target mark for Greek endemics. It must be noted that apart from the unidentified yet collections, we will continue collecting during autumn and winter (a relatively small number of collections expected, of course).

[Note: 190 seed collections of 2022 (58 of them Greek endemics) were delivered to the MSB in two dispatches, in January and July, 2023; 152 seed collections of 2023 (32 of them Greek endemics) were delivered to the MSB in September 2024.

Table 1. Collections realised till Sep. 30, 2023.

Collections	Actual <i>(collections made up to reporting date)</i>	Target <i>(this year)</i>	Total Actual <i>(cumulative)</i>	Total Target <i>(for the length of the project – if funded for 3 years)</i>
Number of Collections	149	158	491 (1 st yr: 190, 152 2 nd yr)	500
Number of Species	149	158	491 (1 st yr: 190, 2 nd yr: 152)	500
Number of Species New to MSB	88/60 (Greece/Global)	155 (flexible target)	333/260 (1 st yr: 135/105, 2 nd yr: 110/95) (Greece/Global)	400 (flexible)
Number of Greek endemics	35	35	125 (1 st yr: 58, 2 nd yr: 32)	125
ENSCONET Priority Species	2	9	14 (1 st yr: 4, 2 nd yr: 8)	All accessible targets (30)

The full list of the taxa collected (mostly under the guidance of the senior collectors Mr Apostolos Kaltsis and Mr Spyros Oikonomidis) is given in **Appendix 1**.

The list of field trips (a total of 48 from Feb. 20, 2024 to Sep. 20, 2024) is shown in **Appendix 2**.

2.2. Significant taxa collected

During the collection season of the year 2024, several very important endemic species were collected, with notable references being the following:

- *Verbascum pentelicum*: a local endemic species of Mt. Penteli (Attica) which is characterized as Endangered (EN).
- *Allium cithaeronis*: a local endemic of Mt. Kithaironas and Mt. Pateras.
- *Petrorhagia grandiflora*: a local endemic of Mt. Parionas (Leonidio rocks).
- *Asperula elonea*: a local endemic of Mt. Parionas (Elona Monastery area).
- *Verbascum boissieri*: an endemic species of the mountains of Central Greece.
- *Odontites linkii*: a common but peculiar member of the Orobanchaceae family, endemic of Greece

2.3 Herbarium vouchers

A total of 12 plant specimens have been collected and are currently under preparation as herbarium vouchers (see **Appendix 3**). As it has been explained it is very difficult to obtain proper herbarium vouchers from most of the taxa collected as this would mean almost doubling the field trips, which under the circumstances is not feasible, on the basis of both human resources and logistics. The accurate identification of the taxa collected will be certified by our taxonomist (Dr Katerina Goula) with the use of all relevant plant material and information available.

2.4 Handling of Seed Accessions

The large majority of the seed accessions (more than 90 out of the 149) have already been dried, cleaned and weighed (under the guidance of Dr Spyros Oikonomidis), but we do not have yet the final estimates of the total number of seeds collected per accession.

2.5 Training the next generation of seed conservation scientists

The Workshop ‘Seed Conservation Techniques Course’ (6 to 10 June, 2022) jointly organised by RBG Kew and NKUA gave the opportunity to several trainees (among them 8 students in their last, 4th year of studies for the Biology BSc Degree) to both familiarise with ex situ plant conservation and to get practically trained in various aspects of seed

curation. Almost all of them have continued assisting in the Project throughout the 2nd year and 4 of them were recruited as Diploma Thesis students (a 2-semester experimental 'course'), studying seed germination ecophysiology of several seed accessions, each. Currently, they have all finished with their experimental work and already presented their Diploma Thesis (3 of them in 2023 and the 4th in 2024). Here is the citation list of their theses.

Maramathas K. Conservation Biology and Germination Ecophysiology of High-Altitude Plants of the Greek Flora (in Greek). Diploma Thesis, 72 pp., Athens, Greece.

Katsikis N. 2023. Conservation Biology and Germination Ecophysiology of Threatened Plants of the Greek Flora with emphasis on *Saponaria jagelii* (in Greek). Diploma Thesis, 80 pp., Athens, Greece.

Boziki A. 2023. Germination Physiology and Conservation Biology of Minute-Seeded Plants of the Greek Flora. (in Greek). Diploma Thesis, 72 pp., Athens, Greece.

Tsigeli F. 2024. Conservation Biology and Germination Ecophysiology of Threatened and Rare Plants of Mt Oeta (in Greek). Diploma Thesis, 67 pp., Athens, Greece.

2.5 The Project Website

The development of the website, assigned to our junior colleagues Mr Spyros Oikonomidis and Mr Sofoklis Mouratidis was eventually finalised by November 2022 and the site was thereafter launched (press [here](#)). The website hosts 5 modules (About us – Activities – Deliverables – Resources – News) and is regularly updated with news and material produced during the Project operation.

2.6 Seed Viability/Germination Assessments and Long-Term Storage

Protocols and procedures for the assessment of seed viability and germinability for all seed accessions (to be collected during the Project implementation) have already been agreed and elaborated, under the guidance of Dr Katerina Koutsovoulou. All seed accessions have been tested in several experiments under various, targeted conditions according to the bibliographic data and all available information with the aim to minimise the number of seeds used for the seed lot assessment (a list of the optimal germination conditions will be sent later in the year). At a later stage and upon the completion of the germination tests, we proceeded with dividing the accessions and, on the one hand, preparing the seed packages (already 342 seed accessions from years 1 and 2 have been delivered to MSB) and, on the other, placing seed accessions under long-term storage at the NKUA Seed Bank.

2.7 Research on Orchid Seeds by PhD Candidate Spyros Oikonomidis

Mr Spyros Oikonomidis started his PhD Thesis in 2020 and it was fortunate that his research was included as an integral part of the Project. During the last two and a half years (since Feb. 2022) he actively pursued his research goals on the seed biology of the Greek orchids and his first visit to the MSB (early 2023) proved particularly successful (see the report at the Project website [here](#)). A second visit to MSB and a common research initiative (with the use of MSB-stored orchid seeds) were envisioned for late 2023 but, unfortunately, there was a lack of interested research personnel at MSB and as a result this plan was dropped. Eventually, Mr Oikonomidis concluded his research work and defended his Thesis entitled «Orchids of Greece: Seed Biology and Ex Situ Conservation», in September 10, 2024. He is now a Dr of Biological Sciences and he has already published 5 research papers from his Thesis, in 3 of which he is acknowledging the support provided by the Project.

2.8 Equipment procured, or in progress

The purchase of a seed aspirator/cleaner (Agricukex, CB-1 Small Column Cleaner – Acrylic Trash Catcher) was made by mid June 2022 and we had the opportunity to use this very helpful instrument in the cleaning process of our collections.

During the 2nd year of the Project implementation, we bought several precision sieves and together with our previously existing ones, we have now an almost complete set of 11 sieves. We also managed to buy numerous air- and water-proof glass jars of various sizes for the long term storage of seeds. For our drying room (kept at a constant temperature of 16-17 °C) we bought a 20L dehumidifier and the relative humidity of the room is always between 40 and 45%, while inside the drying chambers, RH is kept between 15 and 20% with the use of a routinely replaced supply of silica gel. We installed a wifi network and with the use of tailored software we have connected all our temperature and RH loggers, constantly recording temperature and relative humidity in our rooms, drying cabinets and germination chambers. We have repaired one germination chamber and our fully operating set is composed by 7 chambers, all set at different constant or daily alternating temperatures. We have also added wifi-controlled LED strips to 3 of them and now all chambers have lighting capacity. Recently we bought a 3rd freezer (325 L of useful volume) which is currently operating constantly at -20 °C and thus the storage capacity of our Seed Bank has been substantially increased. Finally, we received with gratitude a used dryer/incubator, as a kind donation by RGB, Kew, and we have installed it in our drying room.

During the 3rd year of the Project implementation, we managed to keep all equipment running smoothly and in two occasions we had to repair 2 germination chambers, fortunately due to minor damage. For the rest of the Project duration, we aim to purchase some electronic sensors as well as a new air conditioning unit along with some lab tools.

3.0 Images with Captions



Figure 1. Selection #I of plants collected in 2024. From top to bottom and left to right: 1) *Linum strictum* subsp. *strictum*, 2) *Allium brusalisii*, 3) *Trifolium campestre*, 4) *Geropogon hybridus*, 5) *Euphorbia characias* subsp. *wulfenii*, 6) *Gagea peduncularis*, 7) *Sedum hispanicum*, 8) *Orchis pallens*, 9) *Dactylorhiza sambucina* (©Spyros Oikonomidis & NKUA Seed Bank).



Figure 2. Selection #II of plants collected in 2024. From top to bottom and left to right: 1) *Anthemis cretica* subsp. *cretica*, 2) *Silene pentelica*, 3) *Allium pythagoricum*, 4) *Staphisagria macrosperma*, 5) *Petrorhagia grandiflora*, 6) *Teucrium francisci-wernerii*, 7) *Romulea linairesii* subsp. *graeca*, 8) *Onosma kaheirei*, 9) *Rumex bucephalophorus* subsp. *aegeus* (©Spyros Oikonomidis & NKUA Seed Bank).



Figure3. Selection #III of plants collected in 2024. From top to bottom and left to right: 1) *Asyneuma limonifolium*, 2) *Iris unguicularis* subsp. *angustifolia*, 3) *Aurinia saxatilis* subsp. *orientalis*, 4) *Knautia integrifolia* subsp. *mimica*, 5) *Crupina crupinastrum*, 6) *Campanula incurva*, 7) *Verbena officinalis*, 8) *Stachys chrysantha*, 9) *Linum bienne* (©Spyros Oikonomidis & NKUA Seed Bank).

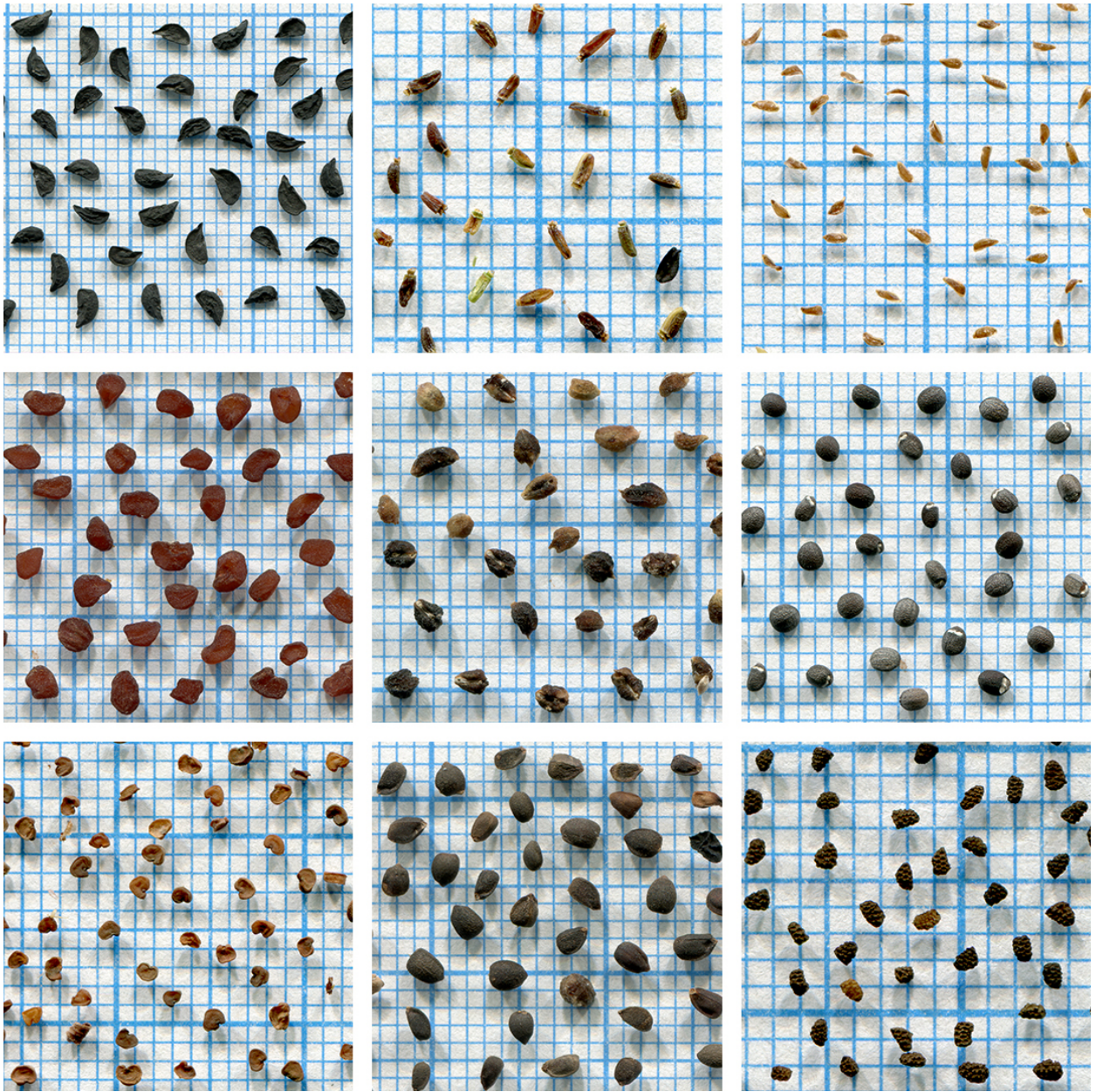


Figure 4. Selection of scanned seeds of 9 Greek endemics. From top to bottom and left to right: 1) *Allium cithaeronis*, 2) *Bupleurum greuteri*, 3) *Campanula incurva*, 4) *Cyclamen rhodium* subsp. *rhodium*, 5) *Galium taygeteum*, 6) *Nepeta scordotis*, 7) *Silene barbeyana*, 8) *Stachys chrysantha*, 9) *Verbascum boissieri* (©Costas A. Thanos & NKUA Seed Bank).

4.0 Project Challenges

Overall, the Project implementation has been relatively smooth on all scientific, administrative and financial grounds. However, we have faced some difficulties and challenges, which we briefly present below.

1. The weather throughout 2024 has been quite erratic and more unpredictable than in previous years/decades. The season started drier than usual in late winter – early spring and remained so during the following spring and summer months. In addition the temperatures recorded from March till August were considerably higher than the average ones; in particular, June, July and August were 3-5 °C from the average monthly temperatures. Drought and unprecedented high temperatures had obvious impacts on both our predictions for the right collection times and, more importantly, on the reproductive success of the plants themselves.
2. As a collateral of the above it became general practice the removal (by artificial means) of the entire low vegetation (herbs and shrubs) in extended forest areas in order to prevent wildfires. This resulted to the destruction of several populations of small annual species with most notable the case of *Bolanthus thymifolius*, an endemic species of Greece which has been tagged for collection on Mt. Kithaironas during spring, yet during the collection visit the area had been cleared.
3. The fire season itself was once more a major, direct negative factor; the fire season started early (May) and continued throughout June, July and August. Due to the unprecedented drought and high temperatures, Greece faced again some large megafires and thousands of smaller fire incidents all over the country. During this 4-mo-long season, there have been numerous cases of extremely fire-risky conditions (red alerts) which led to official prohibitions of entering vulnerable, natural areas (with obvious negative effects to our collection plans).
4. European Parliament elections were held in Greece (and in the rest of EU countries) in early June and added some pressure to our collection schedules.
5. It is evident that the ENSCONET Priority Species have proven much harder to target and collect than anticipated at the beginning of the Project and we are certainly falling behind our targets. Therefore, we should take a note to prioritize these plants in future initiatives.

5.0 Budget

The Excel Budget document shown below (Table 2) groups the expenses according to the system used by the NKUA Financial Services.

6.0 Appendices

APPENDIX 1

Detailed List of Seed Collections carried out between Feb. 20, 2024 and Sep. 20, 2024.

#	Taxon name	Collection Number	Greek Endemic	Chorology (according to VPG)
1	<i>Achillea clypeolata</i>	20240819-AK01	NO	Balkan-Central Europe
2	<i>Achillea holosericea</i>	20240819-AK02	NO	Balkan
3	<i>Acinos alpinus</i> subsp. <i>meridionalis</i>	20240604-S001	NO	Mediterranean
4	<i>Alcea setosa</i>	20240717-S002	NO	East Mediterranean
5	<i>Allium brussalisii</i>	20240907-S005	YES	Greek Endemic
6	<i>Allium chamaespathum</i>	20240716-S002	NO	Balkan
7	<i>Allium cithaeronis</i>	20240802-S002	YES	Greek Endemic
8	<i>Allium frigidum</i>	20240717-S012	YES	Greek Endemic
9	<i>Allium guttatum</i> subsp. <i>tenorei</i>	20240802-S001	NO	Mediterranean
10	<i>Allium paniculatum</i> subsp. <i>paniculatum</i>	20240531-S001	NO	Mediterranean-European
11	<i>Allium vineale</i>	20240721-S001	NO	Mediterranean-European
12	<i>Anemone pavonina</i>	20240402-S002	NO	Mediterranean
13	<i>Anthemis cretica</i> subsp. <i>cretica</i>	20240618-AK01	NO	Mediterranean-European
14	<i>Anthemis tomentosa</i> subsp. <i>heracleotica</i>	20240517-S001	NO	Greek Endemic
15	<i>Armeria canescens</i>	20240619-S001	NO	Balkan-Italy
16	<i>Asperula boryana</i>	20240714-S035	YES	Greek Endemic
17	<i>Asperula elonea</i>	20240715-S009	YES	Greek Endemic
18	<i>Asyneuma limonifolium</i> subsp. <i>limonifolium</i>	20240625-S003	NO	Mediterranean
19	<i>Atractylis cancellata</i>	20240606-S001	NO	Mediterranean
20	<i>Aurinia saxatilis</i> subsp. <i>orientalis</i>	20240614-S002	NO	Balkan-Anatolia
21	<i>Blackstonia perfoliata</i> subsp. <i>perfoliata</i>	20240720-AK04	NO	Mediterranean-European
22	<i>Brassica tournefortii</i>	20240519-S001	NO	Mediterranean
23	<i>Bupleurum greuteri</i>	20240715-S003	YES	Greek Endemic
24	<i>Campanula asperuloides</i>	20240715-S001	YES	Greek Endemic
25	<i>Campanula celsii</i> subsp. <i>carystea</i>	20240720-AK01	YES	Greek Endemic
26	<i>Campanula incurva</i>	20240720-AK02	YES	Greek Endemic
27	<i>Campanula rupestris</i>	20240714-S029	YES	Greek Endemic
28	<i>Campanula rupicola</i>	20240721-S006	YES	Greek Endemic
29	<i>Campanula stenosyphon</i>	20240908-S001	YES	Greek Endemic
30	<i>Capparis spinosa</i>	20240714-S008	NO	Mediterranean
31	<i>Centaurea acicularis</i>	20240531-KK01	YES	Greek Endemic
32	<i>Centaurea pumilio</i>	20240630-S0024	NO	Mediterranean
33	<i>Centaurea raphanina</i> subsp. <i>mixta</i>	20240508-S003	YES	Greek Endemic
34	<i>Cerastium comatum</i>	20240428-S001	NO	East Mediterranean
35	<i>Ceratonia siliqua</i>	20240820-AB01	NO	Mediterranean
36	<i>Cercis siliquastrum</i>	20240827-S001	NO	Mediterranean - SW Asian

37	<i>Cerinth minor subsp. auriculata</i>	20240514-AK01	NO	European-SW Asian
38	<i>Cichorium intybus</i>	20240622-S001	NO	European-SW Asian
39	<i>Colchicum macrophyllum</i>	20240702-S0013	NO	East Mediterranean
40	<i>Conium maculatum</i>	20240521-S001	NO	Mediterranean
41	<i>Craetagus monogyna</i>	20240714-S056	NO	Paleotemperate
42	<i>Crepis dioscordis</i>	20240508-S001	NO	Balkan-Anatolia
43	<i>Crepis neglecta subsp. graeca</i>	20240514-AK04	YES	Greek Endemic
44	<i>Crepis pusilla</i>	20240619-S009	NO	Mediterranean
45	<i>Crucianella angustifolia</i>	20240716-S019	NO	Mediterranean-European
46	<i>Crucianella latifolia</i>	20240601-S001	NO	Balkan
47	<i>Crupina crupinastrum</i>	20240415-S001	NO	Mediterranean
48	<i>Cyclamen graecum subsp. graecum</i>	20240503-S001	NO	East Mediterranean
49	<i>Cyclamen rhodium subsp. rhodium</i>	20240702-S0012	YES	Greek Endemic
50	<i>Dactylorhiza sambucina</i>	20240716-S018	NO	European
51	<i>Delphinium staphisagria</i>	20240630-S004	NO	Mediterranean
52	<i>Dipsacus fullonum</i>	20240716-S046	NO	Mediterranean-European
53	<i>Doronicum caucasicum</i>	20240531-S005	NO	European-SW Asian
54	<i>Draba dolichostyla</i>	20240802-S006	NO	Balkan
55	<i>Draba verna subsp. praecox</i>	20240326-S001	NO	European-SW Asian
56	<i>Echinops spharerocephalus subsp. taygeteus</i>	20240907-AK01	YES	Greek Endemic
57	<i>Echinops spinosissimus subsp. bithynicus</i>	20240630-S002	NO	East Mediterranean
58	<i>Echium italicum subsp. biebersteinii</i>	20240614-S004	NO	European-SW Asian
59	<i>Epilobium angustifolium</i>	20240908-AK04	NO	Circumtemperate
60	<i>Eryngium amethystinum</i>	20240907-S001	NO	Mediterranean
61	<i>Euphorbia characias subsp. wulfenii</i>	20240412-S001	NO	Mediterranean
62	<i>Ferula communis subsp. glauca</i>	20240511-BD01	NO	Mediterranean
63	<i>Ferulago nodosa</i>	20240717-S004	NO	Mediterranean
64	<i>Ficus carica subsp. carica</i>	202408222-S001	NO	Mediterranean - SW Asian
65	<i>Fumana arabica</i>	20240430-S002	NO	Mediterranean
66	<i>Fumana procumbens</i>	20240531-AK01	NO	Mediterranean - SW Asian
67	<i>Fumana thymifolia</i>	20240430-S001	NO	Mediterranean
68	<i>Gagea graeca</i>	20240531-S003	NO	Balkan-Anatolia
69	<i>Galium divaricatum</i>	20240622-S002	NO	Mediterranean
70	<i>Galium taygeteum</i>	20240714-S026	YES	Greek Endemic
71	<i>Galium verticillatum</i>	20240704-SM02	NO	Mediterranean-European
72	<i>Geranium macrorrhizum</i>	20240721-AK01	NO	Mediterranean-European
73	<i>Geropogon hybridus</i>	20240521-S002	NO	Mediterranean
74	<i>Helichrysum stoechas subsp. barrelieri</i>	20240527-S001	NO	Mediterranean
75	<i>Hypericum perforatum subsp. veronense</i>	20240908-AK03	NO	Paleotemperate
76	<i>Hypparhenia hirta</i>	20240507-S001	NO	Subtropical-Tropical
77	<i>Iberis acutiloba</i>	20240723-SM02	NO	Mediterranean-European
78	<i>Iris unguicularis subsp. angustifolia</i>	20240508-KK01	YES	Greek Endemic
79	<i>Juniperus oxycedrus subsp. deltoides</i>	20240716-S023	NO	East Mediterranean
80	<i>Juniperus turbinata</i>	20240402-S001	NO	Mediterranean-Atlantic
81	<i>Knautia integrifolia subsp. mimica</i>	20240717-S005	NO	Balkan
82	<i>Lamium garganicum subsp. laevigatum</i>	20240415-S002	NO	Mediterranean
83	<i>Lamium moschatum subsp. moschatum</i>	20240428-S002	NO	East Mediterranean
84	<i>Limodorum abortivum</i>	20240625-S004	NO	Mediterranean
85	<i>Linum bienne</i>	20240430-S003	NO	Mediterranean

86	<i>Linum strictum</i> subsp. <i>spicatum</i>	20240526-S002	NO	Mediterranean
87	<i>Lomelosia graminifolia</i>	20240907-S009	NO	Mediterranean-European
88	<i>Malvela sherardiana</i>	20240802-SG01	NO	Mediterranean - SW Asian
89	<i>Medicago arborea</i>	20240528-S001	NO	Mediterranean
90	<i>Micromeria nervosa</i>	20240614-S003	NO	Mediterranean
91	<i>Minuartia eurytanica</i>	20240610-S001	YES	Greek Endemic
92	<i>Minuartia hybrida</i>	20240704-SM03	NO	European-SW Asian
93	<i>Nepeta scordotis</i>	20240715-S0026	YES	Greek Endemic
94	<i>Odontarrhena heldreichii</i>	20240704-SM01	NO	Balkan
95	<i>Odontites linkii</i>	20240726-S001	YES	Greek Endemic
96	<i>Orchis pallens</i>	20240721-S003	NO	Mediterranean-European
97	<i>Origanum onites</i>	20240630-S001	NO	Mediterranean
98	<i>Origanum scabrum</i>	20240907-S004	YES	Greek Endemic
99	<i>Orobanche baumanniorum</i>	20240625-S001	YES	Greek Endemic
100	<i>Orobanche ramosa</i>	20240629-AB01	NO	Cosmopolitan
101	<i>Papaver lecoqii</i>	20240721-AK04	NO	European-SW Asian
102	<i>Petrorhagia grandiflora</i>	20240714-S001	YES	Greek Endemic
103	<i>Phlomis cretica</i>	20240907-S002	YES	Greek Endemic
104	<i>Picnemon acarna</i>	20240907-S003	NO	Paleotemperate
105	<i>Plantago bellardii</i> subsp. <i>bellardii</i>	20240614-S001	NO	Mediterranean
106	<i>Plantago holostium</i>	20240506-AB01	NO	Cosmopolitan
107	<i>Plantago lanceolata</i>	20240721-S010	NO	Cosmopolitan
108	<i>Plocama calabrica</i>	20240720-AK03	NO	Mediterranean
109	<i>Prasium majus</i>	20240508-S004	NO	Mediterranean
110	<i>Ptilostemon gnaphaloides</i> subsp. <i>pseudofruticosus</i>	20240714-S042	NO	East Mediterranean
111	<i>Rosa arvensis</i>	20240908-S002	NO	Mediterranean
112	<i>Rosularia serrata</i>	20240702-S002	NO	East Mediterranean
113	<i>Rumex bucephalophoros</i> subsp. <i>aegeus</i>	20240531-S004	NO	East Mediterranean
114	<i>Rumex cristatus</i>	20240717-S001	NO	East Mediterranean
115	<i>Salvia fruticosa</i>	20240702-S001	NO	East Mediterranean
116	<i>Salvia pomifera</i> subsp. <i>calycina</i>	20240625-S002	NO	East Mediterranean
117	<i>Sarcopoterium spinosum</i>	20240823-AB01	NO	East Mediterranean
118	<i>Saxifraga adscendens</i> subsp. <i>parnassica</i>	20240721-S008	NO	Balkan - Italy
119	<i>Scutellaria orientalis</i> subsp. <i>pinnatifida</i>	20240721-S001	NO	Balkan-Anatolia
120	<i>Sedum album</i>	20240721-S009	NO	European-SW Asian
121	<i>Sedum cepaea</i>	20240802-S004	NO	Mediterranean
122	<i>Sedum hispanicum</i>	20240802-S003	NO	European-SW Asian
123	<i>Sedum laconicum</i>	20240717-S014	YES	Greek Endemic
124	<i>Sideritis clandestina</i> subsp. <i>clandestina</i>	20240907-AK02	YES	Greek Endemic
125	<i>Silene barbeyana</i>	20240721-S004	YES	Greek Endemic
126	<i>Silene conica</i>	20240514-AK02	NO	European-SW Asian
127	<i>Silene nutabunda</i>	20240716-S003	NO	Greek Endemic
128	<i>Silene pentelica</i>	20240514-AK03	YES	Greek Endemic
129	<i>Silene radicata</i>	20240622-AK01	NO	Balkan
130	<i>Silene vulgaris</i> subsp. <i>megalosperma</i>	20240508-S002	NO	Balkan
131	<i>Smyrniolum olusatrum</i>	20240701-S001	NO	Mediterranean-Atlantic
132	<i>Stachys chrysantha</i>	20240715-S006	YES	Greek Endemic
133	<i>Stachys cretica</i> subsp. <i>cretica</i>	20240618-AK02	NO	Mediterranean
134	<i>Stachys spinulosa</i>	20240726-S002	NO	Balkan-Anatolia

135	<i>Stipa capensis</i>	20240401-S001	NO	Mediterranean
136	<i>Teucrium capitatum</i> subsp. <i>capitatum</i>	20240805-S001	NO	Mediterranean
137	<i>Teucrium chamaedrys</i> subsp. <i>chamaedrys</i>	20240609-S001	NO	Mediterranean
138	<i>Teucrium francisci-wernerii</i>	20240714-S012	YES	Greek Endemic
139	<i>Thymbra capitata</i>	20240908-AK02	NO	Mediterranean
140	<i>Thymus parnassicus</i>	20240802-S005	NO	Balkan-Anatolia
141	<i>Trifolium campestre</i>	20240525-S001	NO	European-SW Asian
142	<i>Valantia muralis</i>	20240531-S002	NO	Mediterranean
143	<i>Verbascum boissieri</i>	20240625-S004	YES	Greek Endemic
144	<i>Verbascum epixanthinum</i>	20240716-S001	YES	Greek Endemic
145	<i>Verbascum macrurum</i>	20240715-S002	NO	East Mediterranean
146	<i>Verbascum pentelicum</i>	20240711-S001	YES	Greek Endemic
147	<i>Verbena officinalis</i>	20240717-S013	NO	Circumtemperate
148	<i>Vitex agnus-castus</i>	20240823-AB02	NO	Mediterranean - SW Asian
149	<i>Xeranthemum cylindraceum</i>	20240716-S011	NO	Mediterranean-European

APPENDIX 2

List of field trips made between Feb. 20, 2024 and Sep. 20, 2024

	DATE of DEPARTURE	DATE of RETURN	DESTINATION
1	26/03/2024	26/03/2024	StE - Hymettus Mt.
2	01/04/2024	01/04/2024	StE - Hymettus Mt.
3	02/04/2024	02/04/2024	StE - Hymettus Mt.
4	06/04/2024	06/04/2024	StE - Parnitha Mt.
5	12/04/2024	12/04/2024	StE - Hymettus Mt.
6	15/04/2024	15/04/2024	StE - Hymettus Mt.
7	18/04/2024	18/04/2024	StE - Hymettus Mt.
8	28/04/2024	28/04/2024	StE - Kithairon Mt
9	30/04/2024	30/04/2024	StE - Hymettus Mt.
10	03/05/2024	03/05/2024	StE - Hymettus Mt.
11	07/05/2024	07/05/2024	StE - Poikilo Mt.
12	08/05/2024	08/05/2024	StE - Hymettus Mt.
13	08/05/2024	08/05/2024	Pe - Erimanthos Mt.
14	08/05/2024	08/05/2024	Pe - Stoupa
15	14/05/2024	14/05/2024	StE - Penteli Mt.
16	17/05/2024	17/05/2024	StE - Hymettus Mt.
17	21/05/2024	21/05/2024	StE - Hymettus Mt.
18	25/05/2024	25/05/2024	StE - Hymettus Mt.
19	26/05/2024	26/05/2024	StE - Hymettus Mt.
20	27/05/2024	27/05/2024	StE - Hymettus Mt.
21	28/05/2024	28/05/2024	StE - Hymettus Mt.
22	31/05/2024	01/06/2024	EAe - Samos Isl.
23	06/06/2024	06/06/2024	StE - Hymettus Mt.
24	09/06/2024	09/06/2024	StE - Poikilo Mt.
25	10/06/2024	10/06/2024	StE - Oeta Mt.
26	14/06/2024	14/06/2024	StE - Kithairon Mt
27	18/06/2024	18/06/2024	StE - Penteli Mt.
28	19/06/2024	19/06/2024	StE - Hymettus Mt.
29	22/06/2024	22/06/2024	StE - Elikonas Mt.
30	25/06/2024	25/06/2024	StE - Parnitha Mt.
31	29/06/2024	29/06/2024	Wae - Evoia Isl.
32	30/06/2024	30/06/2024	EAe - Chalki Isl.
33	01/07/2024	02/07/2024	EAe - Rodos Isl.
34	04/07/2024	04/07/2024	StE - Kithairon Mt
35	11/07/2024	11/07/2024	StE - Penteli Mt.
36	14/07/2024	15/07/2024	Pe - Parnonas Mt.

37	16/07/2024	16/07/2024	Pe - Mainalo Mt.
38	17/07/2024	17/07/2024	Pe - Oligirtos Mt.
39	20/07/2024	20/07/2024	Wae - Evoia Isl.
40	21/07/2024	21/07/2024	StE - Parnassos Mt.
41	26/07/2024	26/07/2024	StE - Parnitha Mt.
42	23/07/2024	23/07/2024	EAe - Samos Isl.
43	02/08/2024	02/08/2024	StE - Kithairon Mt
44	05/08/2024	05/08/2024	StE - Hymettus Mt.
45	27/08/2024	27/08/2024	StE - Parnitha Mt.
46	31/08/2024	01/09/2024	Pe - Parnonas Mt.
47	07/09/2024	08/09/2024	Pe - Parnonas Mt.
48	18/09/2024	18/09/2024	StE - Oeta Mt.

APPENDIX 3

List of Herbarium Vouchers under preparation. Additional 18 samples have been collected as well (53 in total) but not studied nor fully identified yet. The same holds for 18 taxa of the list below.

	Taxon	Collection Date	Locality
1	<i>Allium sphaerocephalon</i> subsp. <i>sphaerocephalon</i>	16-09-24	Mt Oeta
2	<i>Anthemis cretica</i> subsp. <i>cretica</i>	18-06-24	Mt Penteli
3	<i>Armeria canescens</i>	19-06-24	Kaisariani
4	<i>Cerastium comatum</i>	28-04-24	Mt Kithaironas
5	<i>Crepis neglecta</i> subsp. <i>graeca</i>	14-05-24	Mt Penteli
6	<i>Epilobium angustifolium</i>	08-09-24	Mt Taygetos
7	<i>Geranium macrorrhizum</i>	21-07-24	Arachova
8	<i>Linum strictum</i> subsp. <i>spicatum</i>	26-05-24	Kaisariani
9	<i>Plantago holosteum</i>	08-05-24	Mt Erimanthos
10	<i>Senecio</i> sp.	08-09-24	Mt Taygetos
11	<i>Silene pentelica</i>	14-05-24	Mt Penteli
12	<i>Silene radicata</i>	22-06-24	Mt Elikonas

APPENDIX 4

Copy of the Project Account log of transactions for the entire period of Project implementation (Feb 20, 2022 until Sep. 20, 2024), as handled and recorded by SARG, the Special Account of Research Grants (the NKUA financial services for research grants). The list is in Greek but we can of course provide a translation of a part or of the whole of the document if needed.