

Some observations on the urban flora in Albania

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During study trips through Albania in 2010 and 2023 some historically significant towns have been visited and I made some unsystematic observations on flora and vegetation.

Berat

Berat (Berati) situated in Central Albania has an uninterrupted settlement of 2.400 years. Berat is located at 60 m a.s. at the river Osum. It is a world heritage site of UNESCO since 2005. The number of inhabitants is about 36.500 or 64.500 depending on the information source.



Fig. 1: View from the castle of Berat on modern quarters and the river Osum.



Fig. 2: Dwelling houses inside the closed castle district.

Herbaceous plants:

Ailanthus altissima
Alcea rosea
Anagallis arvensis (petals blue and red)
Anchusella cretica
Antirrhinum majus (walls and roofs)
Arenaria spec. (walls)
Arum italicum
Asplenium ceterach (walls)
Ballota nigra (wall bases)
Brassica napus
Bromus madritensis (top of walls)
Campanula erinus (walls)
Capsella bursa-pastoris
Carduus acanthoides

Catapodium rigidum (walls)
Cerinthe retorta
Chenopodium anthelminticum
Chondrilla juncea
Cichorium intybus
Clematis vitalba
Conium maculatum
Convolvulus arvensis
Convolvulus elegantissimus
Conyza bonariensis
Cynodon dactylon
Cynoglossum creticum
Equisetum telmateia
Eryngium cf. campestre (walls)

<i>Euphorbia helioscopia</i>	<i>Pteridium aquilinum</i>
<i>Euphorbia prostrata</i>	<i>Quercus coccifera</i>
<i>Fumaria spec.</i> (walls)	<i>Reseda lutea</i> (walls)
<i>Geranium brutium</i>	<i>Rhagadiolus stellatus</i>
<i>Geranium purpureum</i> (walls)	<i>Rhus coraria</i>
<i>Hirschfeldia incana</i> (top of walls)	<i>Rubus fruticosus</i> agg.
<i>Hordeum murinum</i> s. l.	<i>Rumex pulcher</i>
<i>Hyoscyamus albus</i>	<i>Sagina apetala</i>
<i>Lactuca serriola</i> (walls)	<i>Salvia verbenaca</i>
<i>Lamium amplexicaule</i> (walls)	<i>Salvia viridis</i>
<i>Lophochloa cristata</i>	<i>Sambucus ebulus</i>
<i>Malabaila aurea</i>	<i>Saxifraga tridactylites</i> (walls)
<i>Malva sylvestris</i>	<i>Sedum cf. rubens</i> (walls)
<i>Marrubium peregrinum</i>	<i>Sedum hispanicum</i> (walls)
<i>Marrubium vulgare</i>	<i>Selaginella denticulata</i> (walls and steep slopes)
<i>Matricaria recutita</i>	<i>Silybum marianum</i>
<i>Malva sylvestris</i>	<i>Saxifraga tridactylites</i>
<i>Mercurialis annua</i> (walls)	<i>Sisymbrium officinale</i>
<i>Micromeria cf. juliana</i>	<i>Sonchus oleraceus</i>
<i>Nigella damascena</i>	<i>Spartium junceum</i> (macchia)
<i>Onopordum acanthium</i>	<i>Stachys germanica</i> s.l.
<i>Oxalis corniculata</i>	<i>Stellaria media</i>
<i>Pallenis spinosa</i>	<i>Symphytum squatum</i>
<i>Papaver rhoeas</i> (walls)	<i>Thelygonum cynocrambe</i> (walls)
<i>Parietaria judaica</i>	<i>Tordylium apulum</i>
<i>Parietaria lusitanica</i> (walls)	<i>Torilis nodosa</i>
<i>Phlomis fruticosa</i> (forming dense populations in the macchia)	<i>Trifolium campestre</i>
<i>Pinus spec.</i>	<i>Umbilicus rupestris</i> (walls)
<i>Plantago coronopus</i>	<i>Urtica dioica</i>
<i>Plantago major</i> subsp. <i>major</i>	<i>Verbascum pulverulentum</i> (top of walls)
<i>Poa annua</i>	<i>Verbena officinalis</i>
<i>Polycarpon tetraphyllum</i> (walls)	<i>Veronica arvensis</i>
<i>Polygonum aviculare</i> agg.	<i>Veronica persica</i> (walls)
<i>Potentilla reptans</i>	<i>Vitis vinifera</i>

Frequently cultivated shrubs:

<i>Aesculus hippocastanum</i>	<i>Phoenix canariensis</i>
<i>Acer negundo</i>	<i>Photinia</i> cf. <i>serrata</i>
<i>Calendula officinalis</i>	<i>Pistacia terebinthus</i>
<i>Cedrus deodara</i>	<i>Platanus orientalis</i> (spontaneous at riverside)
<i>Cercis siliquastrum</i>	<i>Robinia pseudoacacia</i>
<i>Cupressus sempervirens</i>	<i>Rosa spec.</i>
<i>Ficus carica</i> (wall bases)	<i>Tamarix</i> cf. <i>parviflora</i> . (spontaneous at riverside)
<i>Fraxinus angustifolia</i>	<i>Tilia tomentosa</i>
<i>Hedera cf. colchicum</i> (wall bases)	<i>Trachycarpus fortunei</i>
<i>Hedera helix</i>	<i>Vitis vinifera</i> (subspontaneous at wall bases)
<i>Ligustrum sinense</i>	
<i>Lonicera japonica</i>	
<i>Olea europaea</i>	

Gjirokastra

Gjirokastra (Gjirokastër) is an impressive old town in Southern Albania built at very steep slopes, height above sea is 300 m. The number of inhabitants is between 20.000 and 35.000, it was city of birth of the famous writer Ismail Kadare and belongs since 2005 to the world heritage of UNESCO.



Fig. 3: Gjirokastra.



Fig. 4: Street in Gjirokastra: the roofs are covered with slates.

Herbaceous plants:

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| <i>Ailanthus altissima</i> | <i>Dryopteris villarii</i> (walls) |
| <i>Alcea rosea</i> | <i>Euphorbia cf. characias</i> |
| <i>Alliaria petiolata</i> (top of walls) | <i>Galium aparine</i> |
| <i>Anchusa undulata</i> (walls) | <i>Geranium molle</i> |
| <i>Anogramma leptophylla</i> (walls) | <i>Geranium lucidum</i> (walls, wall bases) |
| <i>Anthemis cf. chia</i> (walls) | <i>Geranium rotundifolium</i> (walls) |
| <i>Antirrhinum majus</i> (walls) | <i>Hordeum leporinum</i> |
| <i>Arenaria serpyllifolia</i> agg. (walls) | <i>Hordeum murinum</i> s.l. |
| <i>Arundo donax</i> | <i>Lactuca serriola</i> |
| <i>Asplenium ceterach</i> (walls) | <i>Lepidium draba</i> |
| <i>Blackstonia perfoliata</i> (walls) | <i>Lophochloa cristata</i> |
| <i>Bromus madritensis</i> | <i>Malabaila aurea</i> |
| <i>Bromus sterilis</i> | <i>Malva neglecta</i> |
| <i>Bunias erucago</i> | <i>Malva sylvestris</i> |
| <i>Campanula erinus</i> (walls) | <i>Melilotus officinalis</i> |
| <i>Campanula ramosissima</i> (walls) | <i>Mercurialis annua</i> (walls) |
| <i>Campanula versicolor</i> (walls) | <i>Onopordum illyricum</i> |
| <i>Capsella bursa-pastoris</i> (walls) | <i>Parietaria judaica</i> |
| <i>Capsella grandiflora</i> (wall bases) | <i>Parietaria lusitanica</i> (walls) |
| <i>Cardamine hirsuta</i> (walls) | <i>Parthenocissus quinquefolia</i> [and/or
<i>Parthenocissus inserta</i>] |
| <i>Carduus pycnocephalus</i> | <i>Plantago major</i> subsp. <i>major</i> |
| <i>Catapodium rigidum</i> | <i>Platanus orientalis</i> (walls) |
| <i>Chondrilla juncea</i> | <i>Poa annua</i> |
| <i>Convolvulus arvensis</i> (walls) | <i>Rhagadiolus stellatus</i> |
| <i>Conyza bonariensis</i> | <i>Rumex pulcher</i> |
| <i>Crepis spec.</i> (walls) | <i>Sedum dasypetalum</i> (walls) |
| <i>Cynodon dactylon</i> | |

Sherardia arvensis
Silene vulgaris subsp. *vulgaris*
Sisymbrium officinale
Sonchus asper
Sonchus oleraceus
Stachys germanica s.l.
Symphytum squamatum
Thelygonum cynocrambe (walls)

Trifolium campestre (walls)
Trifolium cf. *pannonicum*
Umbilicus rupestris (walls)
Urospermum picroides (walls)
Urtica dioica
Veronica arvensis (walls)
Vinca major

Cultivated trees and shrubs (among others):

Ailanthus altissima
Cedrus atlantica
Cedrus deodara
Celtis australis (also spontaneous)
Cercis siliquastrum (also spontaneous)
Clematis vitalba (spontaneous)

Cupressus sempervirens
Ficus carica (wall bases)
Hedera helix (walls)
Magnolia grandiflora
Robinia pseudacacia
Vitis vinifera

Kruja

Kruja (Krujë) is a small town some 20 km in the north of the capital Tirana. Kruja was diocesan town already in the 9th century. Its castle played an important role in the defense of the ottomans by the national hero Skanderbeg.



Fig. 5: View at modern parts of Kruja.



Fig. 6: Ethnographic Museum.

Spontaneous growing plants:

Alcea rosea
Antirrhinum majus
Arenaria spec. (top of walls)
Asplenium ceterach (walls of the castle)
Asplenium trichomanes (walls of the castle)
Campanula cf. *versicolor* (walls of the castle)

Campanula ramosissima
Chenopodium album
Chenopodium vulvaria
Cynodon dactylon
Dittrichia viscosa
Ecballium elaterium (wall bases)
Euphorbia helioscopia

Galium spec.
Geranium brutium
Geranium purpureum (roofs and top of walls)
Hedera helix
Laurus nobilis juv.
Micromeria cf. graeca (walls)
Parietaria judaica (walls)
Piptatherum miliaceum
Plantago major subsp. *major*
Poa annua
Poa bulbosa (walls of the castle)
Populus alba juv.
Polypodium cambricum

Potentilla reptans
Pseudofumaria ochroleuca (walls of the castle)
Robinia pseudoacacia
Sambucus ebulus
Sambucus nigra
Saxifraga tridactylites (walls of the castle)
Sedum hispanicum
Sherardia arvensis
Silene vulgaris subsp. *vulgaris*
Stellaria media
Tordylium apulum
Urtica dioica
Veronica persica

Sarande

Saranda (Sarandë) is situated at the coast of the Ionian See. It is one of the most important touristic centres in Albania. The town is in visibility of the Greek Isle Corfu.



Fig. 7. The bay of Saranda.



Fig. 8: Transforming of the Mediterranean vegetation by uninhibited construction activites.

Herbaceous plants:

Alcea rosea
Allium subhirsutum
Anagallis arvensis (red form)
Andropogon distachyos
Asparagus acutifolius
Asplenium cf. onopteris
Avena cf. sterilis
Bituminaria bituminosa
Briza maxima
Capsella bursa-pastoris
Catapodium rigidum
Crithmum maritimum

Dactylis glomerata ssp. *hispanica*
Dichondra micrantha (growing along lawn edges and in flower beds. Not yet mentioned by VANGJELI (2015) or by PILS (2016).)
Dittrichia viscosa
Dorycnium hirsutum
Ecballium elaterium
Echium plantagineum
Euphorbia peplus
Fumaria capreolata
Galactites tomentosa
Geranium brutium

<i>Geranium lucidum</i> (moist and shaded walls)	<i>Quercus coccifera</i>
<i>Geranium purpureum</i>	<i>Ricinus communis</i>
<i>Hirschfeldia incana</i>	<i>Rumex pulcher</i>
<i>Hordeum leporinum</i>	<i>Sambucus ebulus</i>
<i>Jacobaea maritima</i> (running wild in the neighbourhood of cultivation. Not mentioned by VANGJELI (2015) or by PILS (2016).)	<i>Scolymus hispanicus</i>
<i>Lactuca serriola</i>	<i>Silene vulgaris</i> subsp. <i>vulgaris</i>
<i>Malva sylvestris</i>	<i>Sisymbrium officinale</i>
<i>Mercurialis annua</i>	<i>Solanum nigrum</i>
<i>Muscari</i> spec.	<i>Sonchus oleraceus</i>
<i>Onopordum illyricum</i> (castle)	<i>Stachys germanica</i> s.l.
<i>Ornithogalum narbonense</i>	<i>Stellaria media</i>
<i>Papaver rhoeas</i>	<i>Sympotrichum squamatum</i> (= <i>Aster squamatus</i>)
<i>Parietaria judaica</i> (growing on walls)	<i>Tordylium apulum</i>
<i>Piptatherum miliaceum</i>	<i>Tropaeolum majus</i>
<i>Plantago major</i> subsp. <i>major</i>	<i>Umbilicus horizontalis</i>
<i>Platanus orientalis</i>	<i>Verbascum sinuatum</i>
<i>Polycarpon tetraphyllum</i> subsp. <i>tetraphyllum</i>	<i>Verbascum macrurum</i>
<i>Potentilla reptans</i>	<i>Vicia sativa</i>
	<i>Xanthium cf. orientale</i> subsp. <i>italicum</i>

Trees and shrubs (among others):

<i>Callistemon citrinus</i>	<i>Phillyrea latifolia</i> (spontaneous)
<i>Ephedra foemina</i> (spontaneous)	<i>Phoenix canariensis</i>
<i>Ficus carica</i> (also spontaneous)	<i>Platanus orientalis</i>
<i>Justicia adhatoda</i>	<i>Rosa sempervirens</i>
<i>Nerium oleander</i>	<i>Salvia fruticosa</i> (spontaneous)
<i>Osyris alba</i> (spontaneous)	<i>Sambucus nigra</i> (spontaneous)
<i>Paliurus spina-christi</i> (spontaneous)	<i>Smilax aspera</i> (spontaneous)
<i>Parthenocissus [inserta or quinquefolia]</i> (epiphyte on <i>Phoenix canariensis</i>)	<i>Spartium junceum</i> (spontaneous)

Tirana

Tirana (Tiranë) was founded in 1614. The region is however settled earlier. In 1920 Tirana was proclaimed as capital of Albania. Its number of inhabitants is between 557.000 and 625.000 according to differing sources. It lies in the Mediterranean clime, about 100 m above sea. The vegetation reflects the remarkably high mean annual precipitation (1265 mm).



Fig. 9: View at Tirana.



Fig. 12: Urban greening in the centre of Tirana.

Herbaceous plants

Anagallis arvensis
Antirrhinum majus (on roofs)
Artemisia verlotiorum
Arum italicum
Arundo donax
Asparagus acutifolius
Bellis perennis
Brassica napus
Bromus hordeaceus
Bromus madritensis
Bunias erucago
Capsella bursa-pastoris
Carduus pycnocephalus
Carex divulsa
Carlina corymbosa
Campanula lingulata
Catapodium rigidum
Chondrilla juncea
Convolvulus arvensis
Conyza bonariensis
Cynodon dactylon
Dactylis glomerata
Descurainia sophia
Dichondra micrantha (growing along lawn edges and in flower beds. Not yet mentioned by VANGJELI (2015) or by PILS (2016).)
Dittrichia viscosa
Dysphania ambrosioides
Echium plantagineum
Geranium sanguineum
Geranium purpureum
Hirschfeldia incana

Hordeum leporinum
Hordeum murinum s.l.
Humulus lupulus
Iris pseudacorus
Lactuca serriola
Lotus corniculatus
Malva neglecta
Malva sylvestris
Oenothera speciosa (cultivated)
Orlaya grandiflora
Oxalis corniculata
Plantago lanceolata
Plantago major subsp. *major*
Poa annua
Polycarpon tetraphyllum
Potentilla reptans
Pteridium aquilinum
Rorippa austriaca
Rubus fruticosus agg.
Rumex pulcher
Sambucus ebulus
Senecio vulgaris
Sherardia arvensis
Sisymbrium officinale
Sonchus oleraceus
Sorghum halepense
Stellaria media
Trifolium repens
Urtica dioica
Verbascum sinuatum
Verbena officinalis
Veronica arvensis
Veronica peregrina

Tirana is situated in the plant hardiness zone 9 which enables the cultivation of many trees and shrubs.

Trees and shrubs cultivated in parks or along streets in Tirana:

<i>Acer negundo</i>	<i>Paliurus spina-christi</i>
<i>Acer platanoides</i>	<i>Parthenocissus quinquefolia</i> (and/or <i>Parthenocissus inserta?</i>)
<i>Aesculus flava</i>	<i>Phoenix canariensis</i>
<i>Aesculus hippocastanum</i>	<i>Photinia</i> spec.
<i>Ailanthus altissima</i>	<i>Pinus pinea</i>
<i>Buxus sempervirens</i>	<i>Pittosporum tobira</i>
<i>Catalpa bignonioides</i>	<i>Platanus orientalis</i>
<i>Cedrus cf. atlantica</i>	<i>Platanus x hispanica</i>
<i>Cedrus deodara</i>	<i>Populus alba</i>
<i>Celtis australis</i>	<i>Populus nigra</i> var. <i>italica</i>
<i>Cercis siliquastrum</i>	<i>Prunus laurocerasus</i>
<i>Cupressus sempervirens</i>	<i>Punica granatum</i>
<i>Eleagnus angustifolia</i>	<i>Pyracantha coccinea</i>
<i>Eucalyptus camaldulensis</i>	<i>Quercus ilex</i>
<i>Ficus carica</i>	<i>Rhaphiolepis bibas</i> (syn. <i>Eriobotrya</i> <i>japonica</i>)
<i>Fraxinus ornus</i>	<i>Robinia pseudoacacia</i>
<i>Hedera colchica</i>	<i>Rosa</i> div. spec.
<i>Hedera helix</i> (variegated cultivars)	<i>Rosmarinus officinalis</i>
<i>Ligustrum lucidum</i>	<i>Spartium junceum</i>
<i>Liquidambar styraciflua</i>	<i>Tamarix</i> cf. <i>parviflora</i>
<i>Liriodendron tulipifera</i>	<i>Tilia tomentosa</i>
<i>Magnolia grandiflora</i>	<i>Trachelospermum jasminoides</i>
<i>Melia azedarach</i>	<i>Vitis vinifera</i>
<i>Nandina domestica</i>	
<i>Nerium oleander</i>	
<i>Olea europaea</i>	

Vlora

Vlora (Vlorë) is a port city in southern Albania with a long tradition of settlement since the antiquity. Vlora became temporarily capital of Albania after the declaration of independence in 1912.



Fig. 11: Vlora.



Fig. 12: Pond with Phragmitetea in an excavation pit.

Herbaceous plants:

<i>Agave americana</i> (cultivated)	<i>Lavatera cretica</i>
<i>Allium cf. roseum</i>	<i>Lophochloa cristata</i>
<i>Allium subhirsutum</i>	<i>Malva parviflora</i>
<i>Anagallis arvensis</i> (blue sepals)	<i>Malva sylvestris</i>
<i>Antirrhinum majus</i>	<i>Matricaria recutita</i>
<i>Artemisia verlotiorum</i>	<i>Medicago lupulina</i>
<i>Arum italicum</i>	<i>Melilotus spec.</i>
<i>Arundo donax</i>	<i>Mentha cf. longifolia</i>
<i>Borago officinalis</i>	<i>Mercurialis annua</i>
<i>Brassica napus</i>	<i>Oryzopsis miliacea</i>
<i>Bromus diandra</i>	<i>Oxalis corniculata</i>
<i>Bromus madritensis</i>	<i>Parietaria judaica</i> (roof of old buildings)
<i>Calystegia sylvatica</i>	<i>Plantago lanceolata</i>
<i>Capparis spec.</i> (walls of buildings)	<i>Plantago major</i> subsp. <i>major</i>
<i>Capsella bursa-pastoris</i>	<i>Poa annua</i>
<i>Chenopodium murale</i>	<i>Poa trivialis</i>
<i>Cichorium intybus</i>	<i>Polycarpon tetraphyllum</i>
<i>Cirsium vulgare</i>	<i>Polygonum aviculare</i>
<i>Consolida orientalis</i>	<i>Potentilla reptans</i>
<i>Convolvulus arvensis</i>	<i>Pteridium aquilinum</i>
<i>Coronopus didymus</i>	<i>Ranunculus muricatus</i>
<i>Cynodon dactylon</i>	<i>Silybum marianum</i>
<i>Dasypyrum villosum</i>	<i>Sisymbrium officinale</i>
<i>Daucus carota</i>	<i>Sonchus oleraceus</i>
<i>Dittrichia viscosa</i>	<i>Sympyotrichum squamatum</i>
<i>Dysphania ambrosioides</i>	<i>Trifolium repens</i>
<i>Euphorbia helioscopia</i>	<i>Triticum aestivum</i>
<i>Euphorbia peplus</i>	<i>Typha spec.</i>
<i>Galium aparine</i>	<i>Urospermum picroides</i>
<i>Glebionis coronaria</i>	<i>Verbascum sinuatum</i>
<i>Hirschfeldia incana</i>	<i>Vicia lutea</i>
<i>Holoschoenus vulgaris</i>	<i>Xanthium orientale</i> subsp. <i>italicum</i>
<i>Hordeum leporinum</i>	
<i>Lactuca serriola</i>	

Cultivated trees and shrubs:

<i>Acer negundo</i>	<i>Cupressus sempervirens</i>
<i>Ailanthus altissima</i>	<i>Eleagnus cf. macrophylla</i>
<i>Araucaria heterophylla</i>	<i>Eucalyptus camaldulensis</i> (also spontaneous)
<i>Bougainvillea spectabilis</i>	
<i>Broussonetia papyrifera</i>	<i>Ficus carica</i>

<i>Ligustrum vulgare</i>	<i>Phoenix canariensis</i> (with the epiphytes: <i>Conyza sumatrensis</i> , <i>Ficus carica</i> , <i>Sonchus oleraceus</i> , <i>Oryzopsis miliaceum</i>).
<i>Magnolia grandiflora</i>	<i>Rhamnus alaternus</i> (spontaneous)
<i>Melia azedarach</i>	<i>Rhaphiolepis bibas</i> (syn. <i>Eriobotrya japonica</i>)
<i>Morus alba</i>	<i>Robinia pseudacacia</i>
<i>Nerium oleander</i>	<i>Rosa spec.</i>
<i>Pinus halepensis</i>	<i>Spartium junceum</i>
<i>Pinus pinea</i>	<i>Tilia tomentosa</i>
<i>Pistacia lentiscus</i> (spontaneous)	<i>Trachycarpus fortunei</i>
<i>Platanus orientalis</i>	<i>Washingtonia cf. filifera</i>
<i>Platanus x hybrida</i>	
<i>Populus alba</i>	
<i>Populus nigra</i> var. <i>italica</i>	
<i>Punica granatum</i>	

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