

THE ANATOLIAN ITINERARIES OF FELIX VON LUSCHAN

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ABSTRACT. Details are given of the itineraries and collections of F. von Luschan in SW Anatolia in 1881 and '82. Luschan was primarily an anthropologist but his botanical collection, conserved at WU, was fairly extensive and was written up by Stapf, who described numerous new taxa (listed in an appendix).

INTRODUCTION

During the course of preparation of accounts for *Flora of Turkey*, difficulty has often been experienced in localising the botanical collections made by Felix von Luschan in SW Anatolia in 1881 and '82. The present paper, besides giving a biographical sketch of Luschan, includes a gazetteer in which the vast majority of his collecting localities are given their modern equivalents and geographical co-ordinates.

Felix von Luschan was born at Hollabrunn, Lower Austria, on 11 August 1854, the son of an advocate. He studied at Vienna, where he graduated Dr med. in 1878, and then spent a year's service in Bosnia as a military physician with the Austrian army. In 1880, he travelled to Dalmatia and Montenegro (now parts of Yugoslavia) and Albania. The following year, 1881, he embarked on the first of the two expeditions to Lycia and Caria in SW Turkey which form the principal subject of this paper. The results of these expeditions were written up in two travel books (Luschan 1886, Luschan & Petersen 1889). In 1882, besides making his second, more extended excursion to Anatolia, he received his 'Habilitation' (inauguration) for anthropology at the University of Vienna. So began a lifetime's career in anthropology during which he acted as assistant at the Museum für Völkerkunde at Berlin (1885), graduated Dr Phil. from München (1888) and served as director of the Afrika- und Ozeanien-Abteilung at the Museum für Völkerkunde (1904-10). In the first half of his career his main interests lay in the peoples, languages and customs of SW Asia, and between 1883 and 1902 he was associated with the archaeological expedition at Sendschirli in SE Anatolia (Luschan, 1893-1925). While there, he made a botanical collection on Nemrud Dag (Nemrut Dağ, C7 Adiyaman) in 1883. From the evidence on a few field labels it appears that this collection was made on 19 June—the date does not appear in the literature. In later life, Luschan turned his attention to Africa, and during travels in S Africa from 1904 onwards he made extensive studies of the Pygmies and Bushmen. He died at Berlin on 7 February 1924.

Luschan's interests were wide-ranging but botany appears to have been on the periphery. His collections were fairly extensive but the specimens, for the most part, are rather poor and scrappy. The information on the labels is minimal, typically consisting only of the locality (imprecise by modern standards), date and 'Luschan'.

Luschan's collections were written up by Otto Stapf, then a young

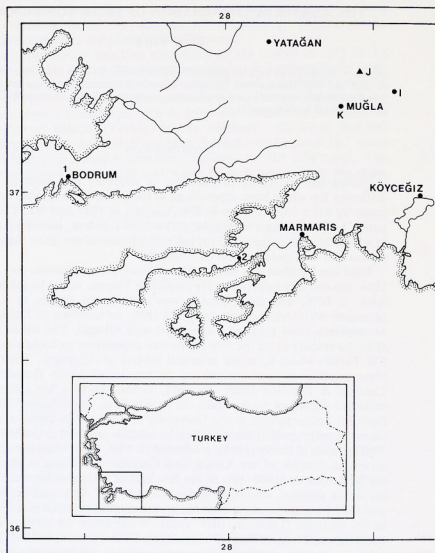
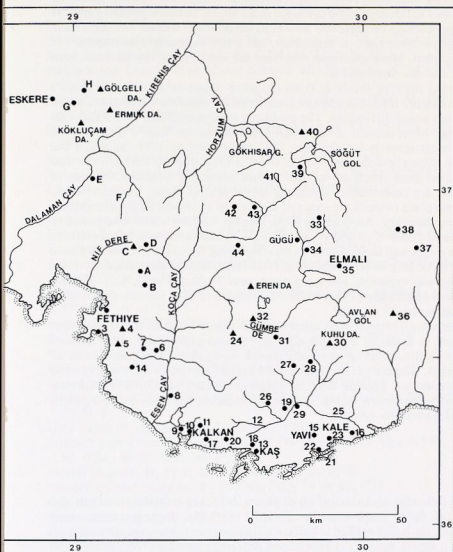


FIG. 1. Collecting sites of Felix von Luschan in S W Anatolia in 1881 and 1882. ●, villages and towns; ▲, mountains; A-K, sites visited in 1881; 1-44, sites visited in 1882.



taxonomist working at Vienna University (WU) where Luschan's specimens were (and are) conserved. Stapf described many new species based on Luschan's gatherings; these are listed in an appendix to the present paper. A large proportion of these are now considered 'bad' species and have been reduced to lower rank or synonymy, but a not inconsiderable number are still accepted. Most specimens and types are extant but a few have not been traced and are presumed lost.

Tracing the type localities from the often vague information in Stapf's papers (Stapf, 1885-86) and the even scrappier details on Luschan's labels has often posed difficulties. The problems are compounded by the fact that the year of collection is frequently misprinted in Stapf's papers. The commonest error is for the year 1882 to be cited as 1881, although the reverse occurs less frequently. As there is little overlap between the two itineraries most misprints of this nature are easily detected. Harder to establish are cases where, according to the printed dates, Luschan visited the same place twice in the space of 10 days, or in two different months, on the same itinerary. An example is the locality 'Guruva', which he is said to have visited on 4-5 vii and 14-15 vii 1882. The evidence here is inconclusive and he might well have paid two visits. However, he could not possibly have climbed Ak Dağ in C2 Antalya on 17 vi 1882—during the period 13-25 vi 1882 he was exploring low-lying areas near Hoiran (Ören), Kaş, Kekova adası and Gjölbashi (Yavi), well to the south and east. He actually climbed Ak Dağ on 16-17 vii 1882.

After identifying obvious misprints, the places listed by Stapf were first arranged in order of date for each of the two expeditions. This allowed Luschan's itineraries to be reconstructed, using maps and other books of the period. Kiepert's 1:1m map of 1844 proved useful, as did the maps and information on ancient sites in Spratt & Forbes (1847). The resulting itineraries are shown in Fig. 1. The information was then re-arranged to form the gazetteer below.

GAZETTEER

The following alphabetical list of places in Turkey visited by Luschan was extracted from Stapf's papers (Stapf, 1885-86). Running letters and numbers (in bold) enable a quick localisation on the accompanying map (Fig. 1); letters denote the 1881 expedition while numbers refer to the 1882 expedition. Important collecting localities named on the map are capitalized in the list. Modern equivalents of Luschan's names, or the approximate location of the site, are given in brackets; the spelling follows the Gazetteer of the US Board on Geographic Names (1960) and the localities have mainly been traced from the 1:500,000 map series (Harta Genel Müdürlüğü, 1946). As mentioned above, Kiepert's 1:1m map (1844) was invaluable in tracing villages whose names have radically changed.

Following the name and bold running number or letter are given date, grid square and province following the system used in the *Flora of Turkey*, and the exact geographical co-ordinates according to the US Board on Geographic Names (1960).

A, Antalya; Ad, Adiyaman; B, Burdur; D, Denizli; I, Izmir; M, Muğla

- Ak Dagħ (Ak Da.) **24**, 16–17 vii 82, C2A, 36°32'N 29°33'E
 Ak Dagħ (Ak Da.) **36**, 1 viii 82, C3A, 36°35'N 30°10'E
 Anar (ancient Arneae, nr Yozgat) **28**, 6 & 16 vii 82, C2A, 36°26'N 29°50'E
 Baba Dagħ (Baba Da.) **5**, 21 iv 82, C2M, 36°32'N 29°10'E
 Balbura (on Kumlu Tepe above Katara) **42**, 23 viii 82, C2M, 36°55'N 29°39'E
 Baschibunar (on slopes of Kizilca Da., N of Hacıusufklar) **33**, 19 vii 82, C2A, 36°55'N 29°54'E
 Bazergyan Jaïlassy (NE of Bazirġan) **11**, 26 iv & 23–24 v 82, C2A, 36°15'N 29°24'E
 Budrun (BODRUM) **1**, 8–9 iv 82, C1I, 37°02'N 27°27'E
 Bulanik Dagħ (part of Ak Da. **24**), 19 vii 82, C2A, 36°33'N 29°35'E
 Chertek (Yukari Kerte) **E**, 8 vi 81, C2M, 36°59'N 29°04'E
 Chertek (?), 19 vii 82, C2A, ?
 Dembre (KALE) **16**, 8 v 82, C2A, 36°14'N 29°59'E
 Dembre Tschai (Demre Çay) **25**, 26 vi 82, C2A, 36°16'N 29°50'E
 Elmaly (ELMALI) **35**, 28 vii 82, C2A, 36°44'N 29°56'E
 Eskere Bogħaz (valley between Gölġeli Da. and Köklüçam Da.) **G**, 11 vi 81, C2D, 37°13'N 28°57'E
 Eskere Jaïla (above ESKERE; yayla on Ermuk Da.), 10 vi 81, C2D/M, 37°09'N 29°01'E
 Eskere Sowany (?), 12 vi 82 (or '81?) ?
 Fellen Tschai (Felen De.) **12**, 26 iv 82, C2A, 36°16'N 29°40'E
 Furnaz (Firnaz) **9**, 25 iv 82, C2A, 36°16'N 29°22'E
 Gilewgy Jaïlassy (above GÜĞÜ), 16 viii 82, C2A, ?
 Gisil Dere (Kizil De.), 9 vi 81, C2M, 36°41'N 29°02'E
 Gjölbaschi (YAVI) **15**, 28 iv–29 v, 21–25 vi, 29 vi, 12 vii 82, C2A, 36°14'N 29°51'E
 Gjöl Hinar (?Gökhisar G.), 2–7 viii 82, C2B, ?
 Gjömbe (old Choma, at confluence of Gümbe De. and Ak Çay) **31**, 18 vii 82, C2A, 36°32'N 29°43'E
 Gozlar (Kozlar) **H**, 11 vi 81, C2D, 37°15'N 29°01'E
 Gürdef Jaïlassy (Kirdüve Y. on Eren Da.), 19 vii 82, C2A, ?
 Gürlek (Yürek) **D**, 7 vi 81, C2M, 36°48'N 29°15'E
 Guruva (Göyre) **27**, 4–5(?) & 14–15 vii 82, C2A, 36°25'N 29°46'E
 Gussuva (Kassaba) **19**, 16–23 v 82, C2A, 36°18'N 29°44'E
 Hemirola Kaifa (Demirli?), 26–27 vi 81, C2M, ?
 Hoiran (Ören) **23**, 13 vi 82, C2A, 36°13'N 29°53'E
 Insula Kekowa (Kekova adası) **21**, 2 vi 82, C2A, 36°10'N 29°52'E
 Jaïlassy Tschai (Yayla Çay?), 13 viii 82, C2B/A, ?
 Jazyr Gjöl (Yazir G.) **41**, 7 viii 82, C2B, 36°59'N 29°45'E
 Jemischin Kaifa (Göktepe, = Yenişen) **I**, 13 vi 81, C2M, 37°15'N 28°36'E
 Kadyanda (nr Yakacik) **B**, 4 vi 81, C2M, 36°41'N 29°15'E
 Kalimaki (Kalamaki, = KALKAN) **10**, 25 iv 82, C2A, 36°15'N 29°24'E
 Karanfil Tschai (Karanfilli Çay) **F**, 9 vi 81, C2D, 36°59'N 29°13'E
 Karakioi (Karaköy) **38**, 2 viii 82, C3A, 36°51'N 30°04'E
 Kasch (KAŞ) **13**, 28 iv, 27 v, 13 vii 82, C2A, 36°12'N 29°39'E
 Katara (nr Karaçulha) **43**, 23 viii 82, C2M, 36°55'N 29°39'E

- Kekowa (Kale, opposite Kekova adası) **22**, 2 vi 82, C2A, 36°10'N 29°52'E
 Kuju Jaïla (Küyü yayla), 19-20 viii 82, C2B/M, ?
 Levissi (on coast, nr Kaya) **3**, 20 iv 82, C2M, 36°34'N 29°05'E
 Loryma (nr Aziziye) **2**, 11 iv 82, C2M, 36°44'N 28°02'E
 Makri (FETHIYE), 20 & 24 iv 82, C2M, 36°37'N 29°07'E
 Mendes (Mendus Da.) **4**, 21 iv 82, C2M, 36°34'N 29°12'E
 Minara (Minareköy) **6**, 21 iv 82, C2M, 36°29'N 29°15'E
 Mughla (MUĞLA) **K**, 16 vi 81, C2M, 37°12'N 28°22'E
 Nemrud Dagħ (Nemrut Da., N of Kahta), 19 vi 83, C7Ad, 37°57'N 38°45'E
 Nif Dagħ (Nif Da., N of Üzümlü) **C**, 5-6 vi 81, C2M, 36°47'N 29°13'E
 Oinoanda (Uluca, nr Incealiler) **44**, 25 vii 82, C2M, 36°48'N 29°34'E
 Olansiniz (?), 8 vi 81, C2M, ?
 Owadjik (Ovacik) **37**, 1-2 viii 82, C3A, 36°47'N 30°12'E
 Phellos (S slopes of Felen Da., N of Kaş) **18**, 16 v 82, C2A, 36°12'N 29°40'E
 Piankaifa (Yılanlı Da.?), 13 vi 81, C2M, ?
 Pinara (2km W of Minareköy) **7**, 21 iv 82, C2M, 36°29'N 29°13'E
 Podalia (Eskihisar) **34**, 27 vii 82, C2A, 36°47'N 29°49'E
 Rahat Dagħ (Rahat Da.) **40**, 2-7 viii 82, C2B, 37°08'N 29°49'E
 Serkir (Serkiz) Jaïla (?), 31 v 82, 31 vii? 82, C2A(?), ?
 Sidek Jaïlassy (Sidek yayla on Sidek Da.) **17**, 14 vi 82, C2A, 36°14'N 29°29'E
 Sidyma (nr Asar, N of Sandak Da.) **14**, 2-5 v 81, 2 iv, 3 & 5 v 82, C2M, 36°21'N 29°12'E
 Soud (Söğüt) **39**, 2-7 viii 82, C2B, 37°02'N 29°50'E
 Subaschi Jaïla (Subaşı Yayla on Ak Da.) **30**, 16 vii 82, C2A, 36°29'N 29°50'E
 Tschechme (Çeşme cathedral at confluence of Demre De. and Karapınar De.) **29**, 14 vii 82, C2A, 36°20'N 29°46'E
 Tschukur (Çukurhayit) **26**, 2 vii 82, C2A, 36°19'N 29°42'E
 Tyrsa (Seyret?) **20**, 25 & 28 v 82, C2A, 36°14'N 29°32'E
 Ujuklu Dagħ (Oyuklu Da.) **J**, 14 vi 81, C2M, 37°18'N 28°28'E
 Üzümlü **A**, 3 vi 81, C2M, 36°44'N 29°14'E
 Xanthos (ruins, Kinik) **8**, 23 iv 82, C2A, 36°20'N 29°19'E
 Zumuru (Yumru Da.) **32**, 19 vii 82, C2A, 36°35'N 29°37'E

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APPENDIX: NEW TAXA DESCRIBED ON THE BASIS OF SPECIMENS COLLECTED BY LUSCHAN

The following list, compiled from Stapf's two papers, gives all new taxa described by Stapf and co-authors on the basis of Luschan specimens. Names are given as they were originally published, without the correction of orthographic errors. Following each taxon's name is given the relevant *Denkschr. Akad. Wiss. Wien, Math.-Nat. Kl.* volume, part and page number.

Boraginaceae

- Anchusa luschani* Wettst. 50(1):86
Cerinthe hirsuta Wettst. 50(1):85

Campanulaceae

- Campanula iuncea* Wettst. 50(1):117

Caprifoliaceae

- Lonicera luschani* Stapf 50(1): 108

Caryophyllaceae

- Alsine pusilla* Stapf 51(2): 354
A. stenosepala Stapf 51(2):353
Arenaria pusilla Stapf 51(2):355
Cerastium brachycarpum Stapf 51(2):355
Dianthus acrochlorus Stapf 51(2):350
D. eretmopetalus Stapf 51(2):349
Paronychia argyroloba Stapf 51(2):356
Silene cryptoneura Stapf 51(2):352
S. inflata Sm. var. *sidymensis* Stapf 51(2):353
S. rhadinocalyx Stapf 51(2):352
S. vittata Stapf 51(2):351

Compositae

- Centaurea luschaniana* Heimerl 50(1):113
Helichrysum chionophilum Boiss. & Bal. var. *albida* Heimerl 50(1):111

Cruciferae

- Capsella lycia* Stapf 51(2):362
Draba nana Stapf 51(2):361
Isatis lanceolata Stapf 51(2):362
I. pyramidata Stapf 51(2):363

Dipsacaceae

- Scabiosa lycia* Stapf 50(1):109

Euphorbiaceae

- Euphorbia akdagensis* Stapf 51(2):368

Hypericaceae

- Hypericum scabrum* L. var. *laevicaulis* Stapf 51(2):364

Iridaceae

- Gladiolus communis* L. var. *longispathata* Stapf 50(1):81

- G. humilis* Stapf 50(1):81
G. micranthus Stapf 50(1):82
G. tricolor Stapf 50(1):82

Labiatae

- Aiuga argyrea* Stapf 50(1):103
A. cuneatifolia Stapf 50(1):102
A. lycia Stapf 50(1):102
Calamintha piperelloides Stapf 50(1):95
C. stenostoma Stapf 50(1):95
Lamium lasioclaides Stapf 50(1):101
Micromeria lycia Stapf 50(1):94
Nepeta lycia Stapf 50(1):99
N. tolypantha Stapf 50(1):98
Salvia chnoodes Stapf 50(1):98
S. chrysophylla Stapf 50(1):86
S. conradi Stapf 50(1):97
S. dichroantha Stapf 50(1):96
Scutellaria brevibracteata Stapf 50(1):99
Sideritis curvidens Stapf 50(1):100
Teucrium alyssifolium Stapf 50(1):104

Leguminosae

- Astragalus oreites* Beck 51(2):380
Ebenus candidus Beck 51(2):382
Trifolium parvulum Beck 51(2):379

Liliaceae

- Gagea luteoides* Stapf 50(1):80
Muscari pauperulum Stapf 50(1):78
Ornithogalum alpigenum Stapf 50(1):79
O. luschani Stapf 50(1):79
Tulipa foliosa Stapf 50(1):80

Linaceae

- Linum lignosum* Stapf 51(2):366
L. luschani Stapf 51(2):366

Papaveraceae

- Glaucium caricum* Stapf 51(2):360
Papaver gürlekense Stapf 51(2):359
P. rhopalotheca Stapf 51(2):359

Plantaginaceae

- Plantago orientalis* Stapf var. *lycia* Stapf 50(1):93

Ranunculaceae

- Anemone coronaria* L. var. *depauperata* Freyn 51(2):357

- Delphinium campylopodum* Freyn 51(2):358

Rosaceae

- Potentilla nifdaghensis* Zimmeter 51(2):377

Rubiaceae

- Asperula bryoides* Stapf 50(1):106
A. lycia Stapf 50(1):105
Galium carium Stapf 50(1):107
G. pulchellum Stapf 50(1):106

Scrophulariaceae

- Celsia trapaefolia* Stapf 50(1):88
Digitalis longibracteata [Richter ex] Stapf 50(1):91
Scrophularia uniflora [Richter ex] Stapf 50(1):90
Verbascum chrysochaete Stapf 50(1):89
V. laxiflorum Stapf 50(1):90
V. lycium Stapf 50(1):89
Veronica nimrodi [Richter ex] Stapf 50(1):91

Umbelliferae

- Caucalis turgenioides* Stapf & Wettst. 51(2):372
Eryngium digitifolium Stapf & Wettst. 51(2):370
E. lycium Stapf & Wettst. 51(2):369
E. spinosissimum Stapf & Wettst. 51(2):369
Heracleum massiticum Stapf & Wettst. 51(2):371
Pastinaca trysia Stapf & Wettst. 51(2):371
Scandix eriocarpa Stapf & Wettst. 51(2):373
Torilis homophylla Stapf & Wettst. 51(2):372

Valerianaceae

- Valerianella gjölbaskiensis* Stapf 50(1):109