TURKISH ITINERARIES: III

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Since Dr. P. H. Davis published his *Turkish Itineraries*, II (Notes Roy. Bot. Gard. Edinb., **22,** 583–586 (1958)), further expeditions have been to Turkey, of which two have been considered sufficiently extended to merit publication. The earlier was made by J. D. A. Stainton and D. M. Henderson, collecting principally in the north-east and south—only once crossing west of longitude 35° E., although Henderson collected a few cryptogams along main roads on his (somewhat devious) return from Trabzon at the end of the expedition. The second expedition, in 1962, was in two parts; T. R. Dudley collecting in May and June mainly in west, south and central Turkey, and P. H. Davis and M. Coode collecting in June, July and August in the north and north-west, only crossing longitude 35° E. at Sinop. Both expeditions were equipped with Land-Rovers.

The 1962 expedition was made financially possible by grants from the Royal Society, North Atlantic Treaty Organisation (Scientific Affairs Division), Australian Commonwealth Scientific and Industrial Research Organisation, the University of Edinburgh, the Godman Exploration Fund, the Royal Geographic Society and the Arnold Arboretum. We wish to thank all these sources for their support. The expedition owes a debt of gratitude to Professor Hayrettin Kayacik (Forest Faculty, University of Istanbul) and the Turkish Forestry Service (Orman Işletmesi) for putting every facility at our disposal. Our thanks are also due to Dr. Faik Yaltirik for accompanying us on part of our journey, for help in collecting tree material, and for much assistance in Istanbul.

The material of the two expeditions (about 6,600 numbers) is being worked out systematically during the preparation of the "Flora of Turkey" edited by Dr. Davis and assisted by a grant from the Department of Scientific and Industrial Research. The cryptogams are being identified by Mr. D. M. Henderson of the Royal Botanic Garden, Edinburgh.

In the following account of the journeys, the numbers in brackets refer to numbering on the accompanying map.

1960

Stainton started on his own. His numbers: 8101–8484, from 30 March to 29 May. First set at Edinburgh.

March 30: Trabzon—Maçka—Trabzon. 31: Trabzon—along Rize road. **April** 2: Trabzon—Maçka—Trabzon. 3: Trabzon—Sumelas Monastery (52). 5: Trabzon—Rize. 9 & 10: Trabzon. 11: Trabzon—Rize—Ikizdere. 12: Ikizdere—Rize—Hopa—Artvin. 16: Artvin—Borçka. 17: Murgul (53). 18: Borçka. 19: Artvin—Yusufeli—Erzurum—Bayburt. 20: Bayburt —Gümüşane. 21: Gümüşane—Zigana (54). 24: Trabzon—Maçka—

Zigana. 25: Trabzon—Rize—Pazar—Hemşin. 26: Hopa—Borçka—Artvin. 27: Artvin. 28: Artvin—Yusufeli—Artvin.

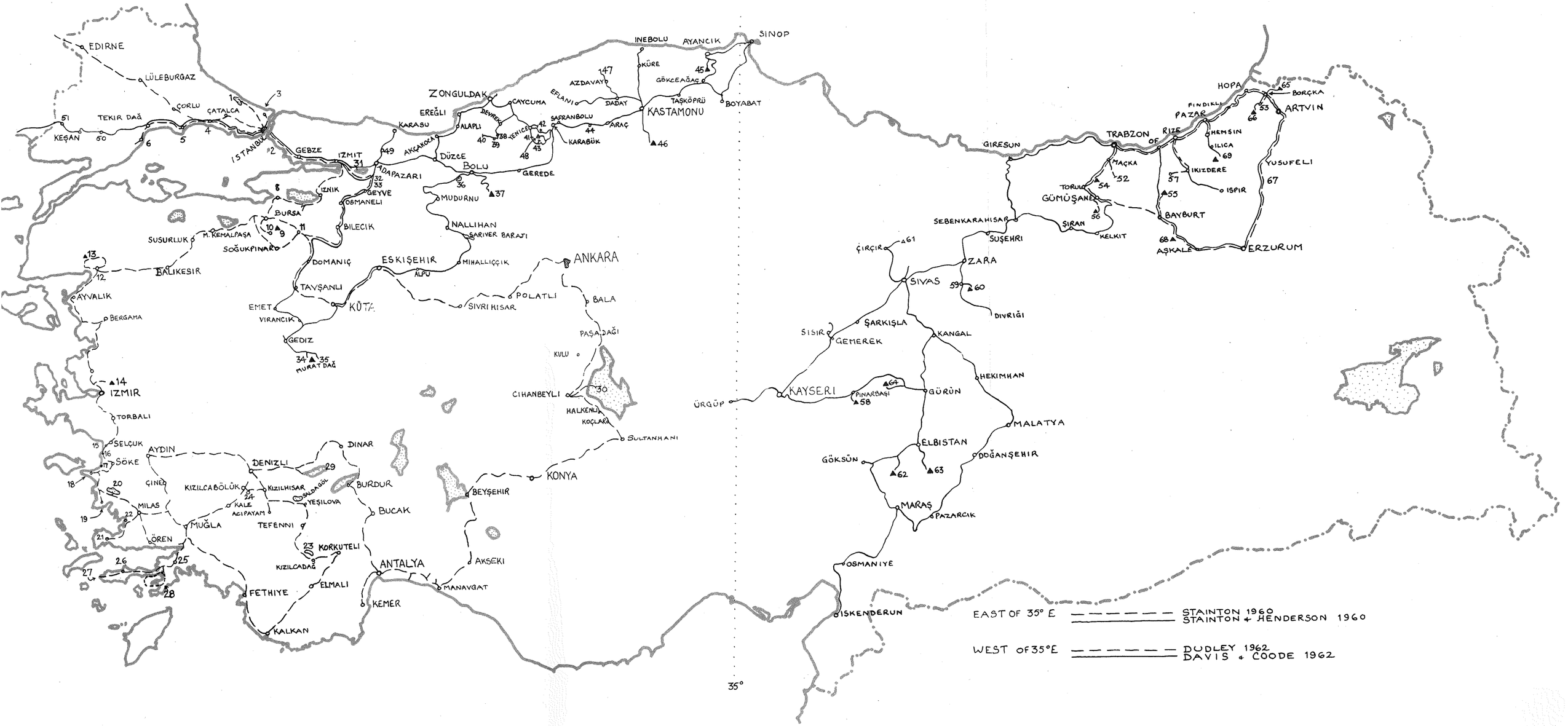
May 1: Rize. 2: Trabzon—Zigana pass. 3 & 4: Gümüşane. 5: Gümüşane—Bayburt. 6: Bayburt—Soğanli Dağ (55)—Bayburt. 7: Bayburt—Gümüşane—Köse Dağ (56)—Gümüşane. 9 & 10: Gümüşane. 12: Trabzon—Ikizdere. 13: Ikizdere. 14: Çaykara (57).

At this point Stainton was joined by Henderson. The collections were partly numbered in the joint numbering ("Stainton & Henderson"), and partly by Stainton continuing his own numbering; Stainton finally stopped using his own series at Kangal, at 8484, on 29th May 1960. Meanwhile, Henderson had previously started using the joint numbering while collecting on his own from Istanbul to Trabzon. His collections begin at Belgrad Forest, north of Istanbul (3) on 12 May, 5001–5013, and at Samsun on 15 May, 5014–5022. The joint numbering continued at Trabzon on 16 May, at 5023, and Stainton and Henderson remained together until 22 July, when the numbering had reached 6311. Henderson continued to collect, but almost entirely cryptogams, numbered from 6312 to 6347, along main roads from Trabzon to Ankara, Antalya, Aydin, Izmir, Bursa and Istanbul.

May 16: Trabzon area. 17: Trabzon—Torul, collecting on Zigana pass, and at castle south of Torul. 18: Torul—Gümüşane—Kelkit—Şiran. 19: Şiran—Suşehri. 20: Suşehri—Sivas, collecting around lakes 20 miles north of Sivas. 21: Collecting on downs north of Sivas. 22: Sivas—Gemerek—Sisir. 23: Sisir—Kayseri. 24: Kayseri—Ürgüp—Göreme—Kayseri. 25: Kayseri—Pinarbaşi. 26: Collected on limestone hill south of Pinarbaşi (58). 27: Pinarbaşi—Gürün. 28: Collected around Gürün. 29: Gürün—Kangal—Sivas. 30: Collected in fields south of Sivas. 31: Sivas—Zara—Bolucan (59).

June 1: Climbed Bey Dağ from north side (60). 2: Bey Dağ—Zara. 3: Zara—Sivas. 4: Sivas—Çirçir, by cart to Yildiz Dağ (61). 5: Climbed Yildiz Dağ to near summit (bad weather, and too early for plants). 6: Çirçir—Sivas. 7: Sivas—Hekimhan. 8: Hekimhan—Malatya—Doğanşehir. 9: Doğanşehir—near Maraş. 10: Maraş—Osmaniye—Iskenderun. 11–13: Iskenderun area. 14: Iskenderun—Maraş—Göksün, by a very bad road even in good conditions. 15: Göksün—Elbistan. 16: Collected on Berit Dağ to about 2000 m. (62). 17: Climbed to summit of Nurhak Dağ (63). 18: Nurhak Dağ—Elbistan—Gürün on a very bad road, collected on Tahtali Dağ (64). 19: Gürün—Pinarbaşi. 20: Pinarbaşi—Kayseri—Sivas. 21 & 22: By rail to Divriği. 23: Sivas—Zara—Suşehri. 24: Suşehri—Şebinkarahisar—top of Giresun pass. 25: Pass—Giresun. 26: Giresun—Trabzon. 27: Collected west of Trabzon and on Zigana pass. 29: Trabzon—Pazar. 30: Pazar—Hopa—Borçka—Artvin.

July 1: Hills above Artvin. 2: Artvin—Murgul. 3: Murgul—Otingol (65). 4: Collected above Otingol—Murgul. 5: Murgul—Magara yayla (66). 6 & 7: Up to 3100 m. above yayla—Murgul (collecting restricted because of heavy rain). 8: Murgul—Artvin—near Yusufeli. 9: Yusufeli—Tortum Göl (67) —Erzerum. 10: Erzerum—Kop Dağ (68) —Bayburt—top of Bayburt–Of pass. 11: Of Pass—Trabzon. 14: Trabzon—Rize—Ikizdere. 15: Ikizdere—near Ispir, returning to the top of the pass. 16: Collected on mountains west of the pass. 17: Pass—Trabzon. 18: Trabzon


EDIRNE
LÜLEBURGAZ
ÇORLU
ÇATALCA
KEŞAN
TEKIR DAĞ
İSTANBUL
GEBZE
İZMİT
ADAPAZARI
AKYAKA
KARASU
ZONGULDAK
EREĞLİ
DEVREK
ÇAYCUMA
ALAPLI
EFLANI
AZDAVAY
DADAY
İNEBOLU
AYANCIK
SİNOP
KÜRE
GÖKCEAĞAÇ
TAŞKÖPRÜ
BOYABAT
KASTAMONU
SAFRANBOLU
ARAÇ
KARABÜK
YENİCE
DÜZCE
BOLU
GEREDE
İZNİK
GEYVE
OSMANELİ
BURSA
BİLECİK
MUDURNU
NALLIHAN
ŞARIVER BARAJI
SUSURLUK
M. KEMALPAŞA
SOĞUKPINARI
BALIKESİR
DOMANİÇ
ESKİŞEHİR
ALPU
MİHALLIÇÇIK
ANKARA
TAVŞANLI
KÜTA
EMET
VİRANŞEHİR
SİVRİHİSAR
POLATLI
BALA
GEDİZ
MURAT DAĞI
PAŞA DAĞI
KULU
ÇAYVALIK
BERGAMA
İZMİR
TORBALI
CİHANBEYLİ
HALKENDİ
KOÇLAR
SULTANHANI
SELÇUK
AYDIN
SÖKE
DİNAR
DENİZLİ
ÇİNE
KIZILCABÖLÜK
KIZILHİSAR
SALDA GÖL
BURDUR
KONYA
BEYŞEHİR
MİLAS
KALE
ACIPAYAM
YEŞİLOVA
BUCAK
MUĞLA
TEFENNİ
ÖREN
KORKUTELİ
KIZILCADA
ANTALYA
AKSEKİ
MANAVGAT
FETHİYE
ELMALI
KEMER
KALKAN
ÜRGÜP
KAYSERİ
PINARBAŞI
GÜRÜN
ŞARKIŞLA
SIŞIR
GEMEREK
KANGAL
HEKİMHAN
MALATYA
ELBİSTAN
GÖKSÜN
DOĞANŞEHİR
MARAŞ
PAZARCIK
OSMANİYE
İSKENDERUN
ÇIRÇIR
SİVAS
ZARA
DIVRIĞI
SEBENKARAHİSAR
ŞUŞEHRİ
GİRESUN
TRABZON
RİZE
OF
MAÇKA
TORUL
GÜMÜŞANE
ŞİRAN
KELKİT
HEMŞİN
İLİCA
İKİZDERE
İSPİR
BAYBURT
AŞKALE
ERZURUM
HOPA
FINDIKLI
PAZAR
BORÇKA
ARTVİN
YUSUFELİ
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
35°
EAST OF 35° E — STAINTON 1960
STAINTON + HENDERSON 1960
WEST OF 35°E — DUDLEY 1962
DAVIS + COODE 1962

—Pazar—Ilica. 19: Collected around Ilica. 20: Ilica to Ilica yayla, east of the village. 21: Collected up to 3000 m., obviously misled by guide, and taken up a lower peak than, and to the east of, Kaçka Dağ; on map (69). 22: Ilica—Trabzon. Phanerogamic collecting largely ended here.

1962

T. R. Dudley, continuing Davis's numbering (D.34,500 to D.36,188), was on his own, except for a short period from 22 May until 5 June when he was accompanied by Dr. A. Huber-Morath, who made a separate collection. Dudley started collecting in the Edirne area on May 5th, and finished on 23rd June at Inegöl.

May 5: From the Bulgarian border at Edirne-Istanbul. 8: Istanbul—Çebreçiköy—Çeptok—Kisimandra—Terkos Gölü (1). 9: Istanbul, by ferry to Büyükada (2). 10: Istanbul to Belgrad Forest (3). 11: Istanbul—Büyük Çekmece—Silivri (4) —Marmaraereğlesi (5) —Tekirdağ—Kumbağ (6) and back to Istanbul. 16: Istanbul—Izmit—Iznik and Iznik Göl. (7) —Gemlik (8) —Bursa. 17: Bursa—Uludağ (9) and Soğukpinar (10) —Bursa along road to M. Kemalpaşa—Keles—Inegöl (11) —Bursa (a very bad road from Keles to Inegöl). 18: Bursa—M. Kemalpaşa—Balikesir. 19: Balikesir—Edremit (12) —Kaz Dağ (13) spending the night in a Forestry Station. 20: Kaz Dağ. 21: Kaz Dağ—Edremit (12) —Bergama—Izmir. 22: Izmir area—Yamanlar Dağ (14). 23: Izmir—Selçuk—Ephesus (Efes) (15) —Kuşadasi (16) —Söke. 24: Söke—Samsun Dağ (18) and towards Davutlar (17) —Priene—Söke. 25: Söke—Priene—Milet—Didyma (19) —Bafa Gölü (20) —Milâs. 26: Milâs—Güllük (22) —Bodrum (21) —Milâs—towards Muğla, returning to Milâs. 27: Milâs—Ören—Milâs—Muğla. 28: Muğla—towards Kale—Muğla. 29: Muğla—Fethiye. 30: Fethiye—Kalkan—Elmali. 31: Elmali—Korkuteli—Kizilcadağ and Söğüt Gölü (now drained and cultivated) (23) —Tefenni.

June 1: Tefenni—Yeşilova—Salda Gölü—Denizli. 2: Denizli towards Acipayam, back to Denizli—Kizilhisar—Tavas (24) —Kizilcabölük towards Denizli, but the road petered out and he had to return by the way he had come. 3: Denizli—Aydin. 5: Aydin—Çine—Muğla—Marmaris (25). 6: Marmaris (25) —Emeçik—Datça (26) —western tip of the Marmaris (Resadiye) peninsula (27) —Datça (26). 7: Datça—Emeçik—Marmaris. 8: Marmaris—Hisarönü (on the way to Emiçek) by Land-Rover; from Hisarönü—Turgut—Bozburun—Hisarönü (28) by boat; then back to Marmaris by road. 9: Marmaris—Muğla—Tavas (24). 10: Tavas—Denizli—Çardak—Aci Göl (29) —Dinar—Burdur. 11: Burdur—Bucak—Antalya. 12: Antalya towards Manavgat. 13: Antalya—Kemer—Antalya—Manavgat. 14: Manavgat—Akseki—Beyşehir. 15: Beyşehir—Konya. 17: Konya—Obruk—Sultanhani—Koçlar—Halkanli—Cihanbeyli 18: Cihanbeyli towards the salt factory on W. shore of Tuz Gölü, and by rail to the furthest point into the salt pans (30), back to Cihanbeyli—Paşadağı—Bala—Ankara. 21: Ankara—Polatli—Sivrihisar. 22: Sivrihisar—Eskişehir—Kütahya. 23: Kütahya—Tavşanli—Inegöl—Bilecik where his collections finish.

At this point M. Coode arrived in Istanbul, and was joined by P. H. Davis a week later, when Dudley returned to Britain by air and Davis and Coode took over the Land-Rover. The collections start at D.36,200

on 30th June, and the joint collections finish in Greece at no. D.39,315 on 14th August. Davis continued alone in Greece and collected from D.39,316 to 39,328. Bulbs and bryophytes brought back unnumbered from both Turkey and Greece were subsequently numbered from D.39,330–39,381.

June 30: Istanbul—Gebze—Izmit—north side of Sapanca Gölü (31) — Adapazari.

July 1: Adapazari—Arifiye (32) —Doğançay (33) —Geyve—Osmaneli—Bilecik. 2: Bilecik—Pazaryeri—Tahtaköprü through beech forest to Domaniç—Tavşanli. 3: Tavşanli—Emet—Virancik—Gediz. 4: Gediz area. 5: Gediz—Murat Dağ (largely igneous rock) going up at Hamam (34) and further on at Kesik Söğüt (35) —Gediz. 7: Gediz—Kütahya—Eskişehir. 8: Eskişehir—Alpu—Mihaliççik—Sariyer Baraji—Nallihan. 9: Nallihan—Mudurnu—Abant Gölü (36) —Bolu. 11: Bolu—Abant Gölü (36) —Bolu. 12: Bolu—Ala Dağ (Kartal Kaya Tepe—igneous rock) (37). 14: Bolu—Düzce—Akçakoca—Alapli—Ereğli.

At Ereğli the expedition was joined by Dr. Faik Yaltirik, of the Forestry Institute of the University of Istanbul.

15: Ereğli—Kozlu—Zonguldak, having returned to Alapli for collecting. 16: Zonguldak area, especially on hard limestone sea-cliffs. 17: Zonguldak —Çaycuma—Tefen—Devrek, having visited Perşembe from Çaycuma. 18: Devrek—Dirgine (38) —Karadere (39) —Yedi Göl (40) —Devrek. 19: Devrek—Tefen—Yenice, along a very old, bad, road. 20: Yenice, along valley road towards Balikisik (42) (igneous rock, puddingstones etc.), back to Yenice—limestone gorge of Şimşirdere (41) —Sorgun yayla below western (?) cliffs of Kel Tepe (43) —Şimşirdere Forestry Bölge station. 21: As rain had made the road to Karabük via Sorgun yayla impassable, we returned to Yenice via Şimşirdere gorge. 22: With the Land-Rover, by rail to Karabük, stopping for collecting at Balikisik. From Karabük—Safranbolu—Iğdir (44) —Araç—Kastamonu. 23: Kastamonu area. 24: Kastamonu—Taşköprü—Gökceağaç—Boyabat—Sinop. 25: Sinop promontory, then to Ayancik. 26: Ayancik—Çangal Dağ Forest Station (first by road and finally by narrow gauge railway) (45). 27: Çangal Dağ—Gökceağaç—Taşköprü—Kastamonu. 28: Kastamonu—Ilgaz Dağ, by a forestry road to the east of the main road to Çankiri, to a valley ending below the northern cliffs (46). We reached an altitude of some 2,200 m., but did not reach the top of the cliffs. 30–31: *Davis* alone, Kastamonu—Küre—Inebolu—Kastamonu; *Coode & Yaltirik*, Kastamonu—Daday—Eflani—Daday—Azdavay—Kizilcasu (47) —Azdavay—Kastamonu.

August 2: Together, Kastamonu—Safranbolu—Karabük. (At this point Yaltirik returned to Istanbul.) 3: Karabük—Eğriova Forestry Station—Keltepe Forestry Station—by forest track to the top of Keltepe (48) (limestone) —Eğriova. 4: Eğriova—Sorgun yayla (43) —Karabük. 5: Excursion to Safranbolu. 6: Karabük—Gerede—Bolu—Düzce—Hendek—Adapazari. 7: Adapazari—Söğütlü (49) —Karasu—Adapazari. 8: Adapazari—Sapanca on south side of Sapanca Gölü—Izmit—Gebze—Istanbul. 12: Istanbul—Büyük Çekmece—Silivri (4) —Marmaraereğlesi (5) —Tekir Dağ—Inecik—Malkara (50) —Keşan—Ipsala (51) to Greece.

In Greece a few collections were made, the details of which follow, but the localities are not mapped:

August 12: Greek frontier—Alexandroupolis. 13: Alexandroupolis—Porto Lago—Kavala—Amfipolis—Saloniki—Larissa, by the new toll road. 14: Larissa—Trikkala—Kalabaka across the Pindus through Korydalos—Metsovon—Ioannina to Igoumenitsa, where joint collections finish. Davis continued for a short time in Greece, collecting on Parnes, Hymettus and Parnassus.

LOCALITIES NUMBERED ON MAP

Abant Gölü (36)
Aci Göl (29)
Ala Dağ (37)
Arifiye (32)
Bafa Gölü (20)
Balikisik (42)
Belgrad Forest (3)
Berit Dağ (62)
Bey Dağ (60)
Bodrum (21)
Bolucan (59)
Büyükada (2)
Çangal Dağ (45)
Çaykara (57)
Datça (26)
Davutlar (17)
Didyma (19)
Dirgine (38)
Doğançay (33)
Edremit (12)
Efes (15)
Gemlik (8)
Güllük (22)
Hamam (34)
Hisarönü (28)
Iğdir (44)
Ilgaz Dağ (46)
Inegöl (11)
Ipsala (51)
Iznik Gölü (7)
Kaçka Dağ (69)
Karadere (39)
Kartal Kaya Tepe (37)
Kaz Dağ (13)
Keltepe (48)
Kesik Söğüt (35)
Kizilcasu (47)
Kop Dağ (68)
Köse Dağ (56)
Kumbağ (6)
Kuşadasi (16)
Magara yayla (66)
Malkara (50)
Marmaraereğlesi (5)
Marmaris (25)
Marmaris Peninsula (27)
Murgul (53)
Nurhak Dağ (63)
Otingol (65)
Pinarbaşi (58)
Resadiye (27)
Samsun Dağ (18)
Sapanca Gölü (31)
Silivri (4)
Şimşirdere (41)
Soğanli Dağ (55)
Soğukpinar (10)
Söğüt Gölü (23)
Söğütlü (49)
Sorgun yayla (43)
Sumelas Monastery (52)
Tahtali Dağ (64)
Tavas (24)
Terkos Gölü (1)
Tortum Gölü (67)
Tuz Gölü (30)
Uludağ (9)
Yamanlar Dağ (14)
Yedi Göl (40)
Yildiz Dağ (61)
Zigana (54)