

nadelten Zustande der Insolation in hohem Grade exponirten Fichten sich schon bei einer Luftwärme von 26° C auf 43° erhitzen. Inwieweit einerseits die Schattenlosigkeit, andererseits das Aufhören der Wasserbewegung im Baume die Erhitzung verschuldet, konnte nicht festgestellt werden.

Das Absterben der Zweige und der jüngeren Fichten beginnt schon im Herbst und setzt sich den Winter hindurch fort. Wahrscheinlich beruht das Absterben der dünnen Zweige vorzugsweise auf einem Vertrocknungsprocesse, der durch die Erwärmung bei Tage und durch die Abkühlung bei Nacht und die dadurch bedingte ständige Ausdehnung und Zusammenziehung der Binnenluft herbeigeführt wird. Während des Winters kommt noch der Umstand hinzu, dass aus den gefrorenen älteren Baumtheilen kein Ersatz des verdunsteten Wassers eintreten kann. Das Absterben des Schaftes tritt bei jungen Fichten schon im Herbst des Frassjahres, bei älteren Bäumen im nächsten Sommer ein und zwar einmal in Folge der Tödtung des Eiweisses durch die grosse Hitze, zweitens in Folge davon, dass die Cambiumzellen des Baumes ohne jede Ernährung bleiben, aber einer aussergewöhnlichen Wärme ausgesetzt sind und daran zu Grunde gehen.

Brick (Hamburg).

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Trachymene Maxwell.

Shrubby; branchlets minutely puberulous; leaves copious, rigid, linear, rather plunt, flat or somewhat channelled, slightly scabrous, all lobeless; umbels compound, conspicuously pedunculated; involucreal bracts quite leaf-like, as many as secondary peduncles and often ob about half their length; umbellets few, containing several flowers; involucreal bracts broadish-linear, stiff, less than half the length of the pedicels; denticles of the calyx rather conspicuous; petals of rather firm texture, somewhat dark-coloured, oval, at the base almost truncated, at the inner side traversed by a vertical narrow membranule; anther-cells ellipsoid; fruits much compressed, as broad as their length, broadest downward with a

slight basal intrusion, scantily reticular-rough, the linear prominence between the marginal and commissural narrow linings faint; carpophore persistent, cleft at the summit only.

In Eucalyptus-scrubs near the north-side of the Stirling's Ranges; George Maxwell.

A shrub of about 3 feet in height.

Generality of leaves from $\frac{2}{3}$ s to nearly 1 inch long, nearly $\frac{1}{12}$ -inch broad, hardly or moderately spreading. Primary peduncles 1—2 inches long, rather firm, the secondary peduncles also rigidulous, about 1 inch long, supporting the floral leaves, tardily deciduous. Umbellules never subdivided. Petals long persistent, marginally overlapping before expansion. Stamens and styles about as long as the petals. Fruits measuring about $\frac{1}{10}$ -inch, but not obtained in a perfectly ripe state. This species comes nearest to *T. valida*, but the leaves are much smaller, and those, which form the involucre, hardly shorter than the others, which gives the plant quite a unique appearance among its congeners; further, the involucellar bracts are much shorter than the pedicels, the flowers all becoming fruit-bearing, the fruits smaller with proportionately less width, and the carpophore has only a terminal fissure. From most congeners different in the colour of the petals. In some respects this new plant reminds of some species of *Astrotricha*, particularly *A. Biddulphiana*.

Trachymene Eatonie.

Tuberous, glabrous; branches slender; leaves lax, filiform-linear, hardly acute, lobeless; peduncles thin, surpassing the leaves; involucre bracts very short, pointed; pedicels capillary; calyx-denticles acute, but minute; base of styles much dilated; fruit considerably compressed, quite as broad as its length, its ridglets filiform-narrow, but prominent.

Near Younegin; Miss Alice Eaton.

Tuber ovate-roundish, nearly 2 inches long. Leaves numerous, $\frac{1}{2}$ —1 inch long, usually very narrow. Pedicels $\frac{1}{3}$ -inch long, or somewhat shorter. Many of the flowers unproductive. Petals and stamens as yet unknown. Dilation of styles longer than the capillary portion. Fruit measuring about $\frac{1}{8}$ -inch, but not yet obtained in a fully ripened state. This species is by its tubers already distinguished from all others, except *T. deflexa* and *T. cirrosa*, but systematically it ought to be placed near *T. effusa*, from which the longer, narrower and laxer leaves, as well as the evidently larger fruits, already distinguish it.

T. deflexa occurs on the sources of the Blackwood-River (Th. Muir). The tubers of this species are egg-shaped, carnulent, 2—3 inches long, and eaten by the aborigines. *T. tenuissima* was collected by me on the Collie- and Preston-Rivers, as well as on the Shannon. Divisions of root thin and short, seemingly indicating only annual duration. Fruits considerably longer than broad.

T. effusa extends inland to Lake Seabrook (Merrall); it occurs also near Mount Rugged (Miss Brooke).

The genus *Siebera*, among composite plants, as the latest under that name adopted by Bentham, abrogates that generic appellation among umbelliferous plants. It seems therefore best to leave the former generic names undisturbed, more particularly so as Rudge indicatively comprised modern species of *Trachymene* (along with the subsequent *Didiscus albiflorus*) in the genus *Trachymene* already, further as the designation *Didiscus* has been in extensive horticultural use for fully sixty years, and therefore could not well be abolished now. Sprengel's name, *Fischera*, given as far back as 1813, is neither available, as a synchronous genus became undisputably admitted among asclepiadous plants.

Didiscus elachocarpus.

Annual, dwarf, erect, beset with spreading glandule-bearing hairlets; leaves few, minute, trifid; involucral bracts broadly linear, acute, about as long as the pedicels; fruitlets extremely small, dark-brown, almost obovate, turgid, glabrous, but equally tubercular-wrinkled on both sides.

Between the Murchison-River and Sharks-Bay; F. v. Mueller.

Whole plant above ground about 2 inches high, according to an only specimen secured; root almost as long, simple, downward capillary.

Leaves including the petiole only $\frac{1}{4}$ to $\frac{1}{3}$ inch long. Flowers not obtained. Styles extremely minute, with capitellar stigmas. Fruits on pedicels of about $\frac{1}{8}$ -inch length. Fruitlets much shorter than the pedicels, somewhat demidiate, the ridglets concealed.

A remarkable plantlet, similar to minute forms of *D. pusillus*, but with fruits very much smaller than in any other congener, yet bearing well developed alburnum, hence neither deformed nor of abnormal minuteness, as might be thought at first sight. The smallness of the fruitlets brings our new plant in some contact with *Hydrocotyle*, especially as *H. corynophora* might be transferable to *Didiscus*.

Acacia Maidenii.

Arborescent; branchlets somewhat angular towards the summit; phyllodes large, of chartaceous texture, lanceolar-falcate, gradually narrowed into the petiole, very closely striolated by fine longitudinal venules with some few of these more prominent, almost glabrous or slightly greyish from hardly visible hairlets; marginal glandule near the anterior base of the phyllodes inconspicuous; spikes almost sessile, solitary or two or three together, their rachis tomentellous; calyx broader than long, much shorter than the corolla, short-lobed, subtle-pubescent; corolla almost glabrous, deeply cleft, into usually 4 lobes, not streaked; fruit narrow, considerably compressed, much twisted, outside beset with minute hairlets; seed placed longitudinally, ovate-ellipsoid, shining-black, their areole on each side large; funicle pale-reddish, completely or extensively encircling the seed, suddenly doubled back from the summit, folded at the lower side.

Near the Karuak-River, W. Bauerlen; Mooloolah-River, Eaves; Richmond-River, Mrs. Hodgkinson.

This species seems to occur in several other places of Northern New South Wales and Southern Queensland, but fruit-specimens, confirmatory of its characteristics, are extant as yet in our collections only from the three above-mentioned places. Nearest to *A. glamescens*.

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Personalm Nachrichten.

Dr. **Th. Bokorny**, bisher Docent der Botanik an der Universität in Erlangen, ist zum Lehrer der Naturwissenschaften am Kgl. Cadettencorps in München ernannt worden.

Der Gymnasiallehrer und Privatdocent Dr. **Hansgirk** ist zum ausserordentlichen Professor in der philosophischen Facultät an der tschechischen Universität in Prag ernannt worden.

Mr. **J. Bretland Farmer**, Demonstrator of Botany der Oxford University, ist als Nachfolger von Dr. **D. H. Scott** als Assistant-Professor in Botany am Royal College of Science in South Kensington angestellt worden. Dr. **Scott** ist als Vorstand des Jodrell Laboratory nach Kew übersiedelt.

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