COPIES OF LETTERS

CONCERNING HISTORY OF BENTHAM'S

"FLORA AUSTRALIENSIS"

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KEW, ENGLAND.



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DEPARTMENT OF AGRICULTURE

George Street, South Perth, Western Australia 6151



## PROPOSED FLORA OF THE AUSTRALIAN COLONIES.

Copy of a Letter from G. BENTHAM, Esq., F.L.S., to Sir W. J. HOOKER,

Director of the Royal Gardens, Kew.

Kew, May 6th, 1861.

MY DEAR SIR WILLIAM,

It is with feelings of great regret and disappointment that I learn from you that the Lords Commissioners of the Treasury have declined sanctioning the publication of a Flora of Australia on the plan of the 'Flora Hongkongensis,' under the authority of the Colonial Office; for that "adverting to the wealth of the several Colonies in Australia, and to the sense which they have shown of the interests of science and commerce, their Lordships have stated that they think that any Works of the proposed description may be left to the enterprise of the Colonies themselves, and that there are no sufficient reasons to warrant their being undertaken at the cost of this country."

It is now several years since you did me the favour of communicating to me your ideas relative to the publication of a series of inexpensive practically useful Floras of the British Colonies in the English Language, which it was your intention to urge upon the consideration of Her Majesty's Secretary of State for the Colonics, as essential for ascertaining and developing their several productive capabilities. Your efforts having been successful with regard to the West Indian Flora, and the Cape Flora having been also commenced with liberal assistance on the part of the Cape Government, you proposed to me to undertake that of Australia, which could only be done in this country, where are deposited all the early published collections of Brown, Cunningham, Frazer, Drummond, etc.; and I then agreed with you upon the terms upon which the plan could be carried out. During the three years which have since elapsed, I have not, it is true, commenced the drawing up of the Work, which I could not do until the necessary outlay should have been officially sanctioned, but, as the project appeared to meet with the strong approval both of the Colonial Government at home and of the Governments of the several Australian Colonies, as well as of Dr. Mueller, the very able Government Botanist at Melbourne, I have kept it steadily in view in the different botanical investigations I have been engaged in, and have incidentally worked up several Australian Genera. I have made many preliminary arrangements, and, in conjunction with yourself and Dr. Hooker, I have matured the plan in all its details, and exemplified it in the Flora of the Island of Hongkong, lately published.

I have now passed my sixtieth year, and if the commencement of the Australian Flora is further delayed, I cannot hope, even should I live, to retain sufficient vigour of mind and body to complete it in a satisfactory manner. At the same time, I cannot but be aware that, having devoted nearly forty years of my life to the study of the Botany of all parts of the world, I have had great practical experience both in the preparation and use of Local Floras; that I am now established in the only centre where the vast collections made by travellers and explorers in Australia can be compared with each other, as well as with the products of other regions; that I am moreover in friendly communication with those French and German establishments which must be consulted in the course of the work; and that I

Printed for Private Girculation. 1

have thus acquired peculiar facilities for the preparation of a general Flora of Australia, so limited as to form and bulk, that I might still hope to bring it to a conclusion. This would also be to me a labour of love, provided I could be in some measure indemnified for the cost I should incur, and for the time I should have to take from other pursuits.

I am well aware that several of the richer colonies of Australia would prefer seeing the vegetable productions of their territories illustrated in such splendid quartos as Dr. Hooker's Flora of Tasmania, or Dr. Mueller's Flora of Victoria; but these books, though valuable monuments, testifying at once to the science of their authors and to the munificence of their promoters, take an enormous time in their preparation; -a general one for all Australia would be the work of nearly half a century. They are too bulky and costly for practical use by those who would study the comparative vegetation of the several colonies with a view to the development of their productive capabilities, or for those who, either resident or travelling in the country, may have a few leisure moments to continue the investigation of its Flora, and who require a portable and readily consultable summary of all that is known on the subject, as a starting-point for further research. The productions of adjoining Colonies are moreover so intimately connected with each other, that to answer the above purposes effectually, a general work is required, that should embrace the whole Flora of the Australian Continent and adjoining islands, but in which the typographical arrangements should be such as to show at a glance which species are peculiar to one, or common to two or more of the separate Colonies, the internal transmit

Such a work might be comprised in about six or seven octave volumes, of the size and type of the 'Flora Hongkongensis,' and would probably take as many years to prepare. Were I therefore to receive, in the course of the present year, the necessary authority to commence it, I might hope to bring it to a conclusion myself; and if it were thought necessary that it should be accompanied by illustrations, fifty outline Plates might be added to each volume, without very materially increasing its bulk on price, or delaying the issue of the successive volumes. data harmannon after head yeared a

As the necessary authority can now only be obtained from the Colonies themselves, I beg leave to submit, through you, for their consideration the following offer, being the same terms as were contemplated for a general series of Colonial Floras, as laid before the Secretary of State for the Colonies.

ideal am willing to prepare and publish a Flora of Australia on the plan, of the size, and in the type of my 'Flora Hongkongensis,'—distinguishing, however, the species of each of the several Colonies, in six or seven volumes of about five hundred pages each, provided that I am guaranteed a sum of not less than £150 for each volume, to be paid on its publication, and that 100 copies be taken by the Governments at the selling price, not to exceed 20s. per volume; and that if 50 Plates be added to each volume, £50 be added for their preparation, and the selling price not to exceed 25s. per volume. This would bring the total expense to the Colonies for each volume to £250 without Plates, or £325 with Plates, and I should hope to publish one such volume every year.

elle d'en met l'indicat au min in an internation e in arrina par des izia par l'exemp con ocad l' L'remain, e in conquire el gora l'an i die le tarent des alle me se en pari i l'infaria par a gord demace l'aboqui in ист на машен ка увеат Гаа Гайн Тамийн 🛣 They beard you are not not and a sur now you are my fifth the William, as you the connecting the control of the of my life to the stocklessness very large and the variety like to the process texpellence of the array theorying add no bodistance from our tach, proposition to the GEORGE BENTHAM.

al decreases at many district mental Director and as I have describe

Sir William J. Hooker, at has miles no all enough, on the said many Director of the Royal Gardens, Kew, transmitted to the transfer to the land to etc. etc.

Downing Atual, 10 Mugust 1030,

Wir,

I am directed by Secretary Sir Edward Buliver Lytton to informe you that, in answer to the reference which was made to the dords born: - middioners of the Treasury on the subject of your letter of the 1st of May,

Sir. W.J. Hooker

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their Lordships have intimated to this Department that they have not deemed it expedient to propose a sum for the publication of the Flow of Mustration in the Estimates for the forevent year, but that they will be ready to consider any opinion which the decretary of State may offer in the matter when the botimates for the year 1059-60 weein preparation. Sir Edward Buliver Lytton disiner me to add

that

that the subject willnot be lost wight of your obcalient vorant Camawon.

Downing Street, 21 Thebruary, 1859.

Sir,

Secretary Sir Edward Bulwer

Lytton to acknowledge the

receipt of your letter in:

yining whether a great

of money could be made

for the publication of a Flora

of Mustralia and I am desired

Sir W. Flooker

Le. A. M.

to express his regret that the demands for the public dervice this year we so large, and that the neces: = Tity of making every prossible curtailment of expenditure is so imperative, that he feels himself precluded from submitting to the Lords Commissioners of the Treasury an application for the proposed object, I am Your obedient sevant

Pl.

the principal Floras of
Australia, and on the probable cost of the undertaking.

Seeing that the Work has already been ac = -complished for Jasmania and New Zealand in the accounts which were published, with great credit to their author Dr. Hooker, among the records of Sir James Ross's Australian Noyage, His Grace presumes that attention should next be turned to the Colonies situated on the mainland of Australia, vizt-New Youth Wales

The Australian Hera wile centain about Sovo shecies, the se hences of authorship for which, at the vate allowed for the other. Heren, wite amount to £ 1200 & the time required carrows be before by years, The whole Here may be compressed in fine 8 w Volumes, about the eige of the Hong King Here, & can be sold at the same Juice 161 In volume without blates; 21/ with 50 plates as many more sheirs with he contained in Park volume of a large continent al Floren whatwater for smale burnelar one there being way much fewer orders & genera to the shoris i the former ) it is calculated that about 1600 Shows con with he centamed i lack volume of the autabain Flora, Van Ster hayment Justined is at the water of £150 he lovo shules, Iwalla broken that the author he hair I 240 the completion Imblication of lack volume.

Any May 1050 whices 1300 } 5 volenies 12.5 - Order 1 voleme Enemerica and real and to hear to the Australia Plane (Mishan 3 - Timeto 2) an commen to ale dito Sebruary, 1861. As the Hong Hong Flora is now completed, I am directed by the Duke of Newcastle to state that he will be glad to be favored with your opinion on the expediency, and on the best method, of publishing Tir William Hooker

The Do hences Mustino of the whole Hence with he Authorhich at for Sovo showing at.

±112 for 1000- for lach volume

containing about 1600 shows \$\frac{1}{240-} \frac{1}{200} Plutes at 50 per volemen \_\_\_\_ Punhang 100 copies at 21/ In wolenne. Estimate such # 1975 without Plater authorship 1200 Punhan Jechies at 16/ N. B. Thise Here would further centures at the plants of the behilding seems to bella court & diland, many farint have been for means, go rear collected Lare still unpublished Spelh antant

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Wales, Victoria, South. ...
Australia, Western Australia
and Queensland.

If would be desirable to form an idea of the number of Volumes which the Floras of these Territories would fill if prepared in the same style as that of Hong Kong, and the pro = = bable cost of them, on the assumption that with each Nolume should be printed about 50 Hlates of a plain and useful description.

In making these inquiries, it is taken for granted

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granted that the requisite materials for the Work exist in England. If fresh col = elections should be necessary, this would materially affect the question.

to request that you will have the goodness to surnish at the same time a list of any other Colonial Floras which may have been already published, or ordered for publication, together with a statement of the progress of the latter.

Jam Sour most obedient-Servant-Thiddelliss

Downing Street. 24th April 1861.

Sir, With reference to your letter of the 28th of February last, I am directed by the Duke of-Newcastle to acquaint you that His Grace brought under the , notice of the Lords Commissioners of the Treasury the considerations in favor of publishing and Australian Flora, in the sained shape as

Sir Milliam Hooker.

the recently published Flora of Hong Kong, at the expense of this bountry, but that adverting? to the wealth of the several. Colonies in Australia, and to the perse which they leave shown. of the interests of science and commerce, their Sordships have stated that they think that any works of the proposeds description may be left to the enterprize of the Colonies Hemselves, and that there are no sufficient. reasons to warrant their being) undertaken at the cost of this Country. The Duke of Newcastle

does

does not feel that be would be justified in græstining the conclusion thus arrived at by the Lords bournissioners of the Treasury as the proper guardians of the Imperial Exchequer. At some future day the several answers received from all the British bolonies on their collections of Natural History, and on the extent to which they have yet been published will be carefully reviewed, and the question can then be considered whether it will be advisable to fut the Australian Governments in profession of the work which

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leas been published for Hong) Kong, and to ascertain whether they would be disposed to anthorize a suicilar publication for Australia at the expense of the Colonial Treasuries. Jan, . Mour obedient Servant

Tantor two mon plates of the flora Mistoria; the printing afthe lethyrres is nound and as the cy. Monation of Pertonia by my last Journey may he regards as completes y on my health is letter, Thom I bladt be ash to program freely with the work. Thuch Mrs Doutham will take up the M. British poplessions. I do think, that it is not sight, that What I have made now vine 1847 a plan oflipe Thould now by the Cabour of an other Hotaur62 be frustrated. Tother world not mich enaugh for all of us? Tasten mas resirons to ask I stroken, whithen Mount Erebas, herry an to have a vegeth tion of any vool An the occión abtainath in English parks?

Aug attention Thown & the Courable Capt. Jacky will oblige me much. This exalland Offirm was sound runn Let in the last Meen fealand mar, I ame to him mainly my approvident as Director of the Jana and was mostalled by his timistry. Me han reunal them our tenplants raisers from occos, sent by his Saalling formar Robin. Son at Hangkong. Frag gim St. Oparker my third regardon N. 16 Hazunta hnewith Varopitalina Horrorgania in cultivation & will would som by the first of mortanity.

Mellourne, bolanic Gaologir Gorden 23. July 1861 My very dear Sir William. Thave your noble letters, dated 18 ound ho May Enforce me, arrouganied by communications fram your son Im Wentham. All the principle passages of thise letters winging to one prouse, namely the edition of an Australian Flora by Mrs Mentham under Colonial support, Thall advers my self sally to yourself, well Knowing that the relations questions will be fully dis curred in your high tri umvirate, whenever a division shall have been derived at by the Australian yournment in reference to the culoridics sought for this publication. Altho afraid, that I bleall merely resterate, what Takenty stated on various accasions I wenture to bring once mon my own ideas on the continplated universal Australian Flora before you, not with a

view to ungetheir adoption, but with a cinver desire to affir my councelo on a work, which, - to opeak with Aunbaldt -, longs in unbafrio. In Vinevillan nor mir fifmenten, and in the issue of which Talways hoped to take a prominent part. Indeed it is not saying too much, that ever oince 1847 inhen I arrived in Australia, I savrefired all) other intensts for the jumpose of conventrating ouch means, as by endowment of nature or by by the course of events were at my commands for the compi-Cation of an universal work on Justralian plants, for which all Thave buthirto done much be regarded as preliai nay you are, my dear Sir William, fully aware that I have travelled one 1847 mearly 21000 miles by land precionally with a view to render myself arguainted with the vegetation of this coulinent. Thave moreoner copious as yet unorpried notes of my diaries, which I micher to bring to hear on the habitats of the sproice, whilst in our herbarium

we amassed gradually in addition to my own through vavivus collectors duch am extensive series of sperimina, that Termos but think a work an Mustralias Hora could not be satisfactional, sursition genfeited inithout direct com sultation of this matrial. The fasticles of Australian plants in our hotanical mus beun durant already to Thalamiflorae 82, Caly ciflorne 240, Corolliplorae II, Monooblamydeae 85, monototy-Cedonear 70, Storty ledonear 35, large collections of Arotyledonear heing becins lut to European Hotanits, considerable additions not yet inserted and wrath additions expected from several cullitters now itsavalling into the interior, whilst weekly or even doily mimorano enthertoro friends forward opisionina to me. Nevertheliss it is but right Tohould admit, that my mul tifarious official dutie's hund? during the last four years Aft me not even leisure 'n enough to accomplish the tack of fully digesting throw

collections, tent since the garrin, our which I hold the Director Chip will in the course of this year he finally for med in all its parts and since I blad moreon ere long be relieved of the main administration of the gools gical department, I may hope, if providence grants me life and health, to and vanie with my botamos labours unch more once dily than before, while I hove meanwhile but all our Truge collections into perfect order and avoers and have to ouch our extent ong mented my library as to outer with Fair brougth on future Citirary work. That my for arium is devoid of ving indiaputable and that the voice of opioisuina is much more extension and solut than in any attribur barium I have reason to helieve. Het I am fully impressed with the superiority of me Bouthand of morn almost

all phytographics of this age, and commially forme, who mumbered libble more than half the years afgree aclebrated friend it would be althogether unbecoming to place myself with him in equal rank, and no our can more fully appriorat the power of his genius, his assistify and his compulmoin Ruswledge, of which we have again before us å remarkable evangsle in the Hong Kong Thora. Itill privaded by a profound desire, to see the fortherming work puful in all its details, as far as present disoneries go, o cannot suppress my opinion, that it is not ouffirent for ositival demarkation of Australian operico, which after all will be the priv may aim of the work, to daborate plants of this com try merely in a mucoum or Library; and here it is, when I believe my views at the whole are least likely apt to be erroneous as ugard l'imitation of speries, leaving

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watched the circumstanous, seeling which rule their wardation, so long in the field and These were however not the only circumstantes, entirely induced me formerly to express a wish of Tharing in the authorship of an Au Stralian For Teall not but be aware, how in my position as Bolanist to the Tectorion Government the tak would devolue on me of furnishing an Australian How partial or general, copinially since I made my affire for several years practed the centre afholonical information for all Subtralia. I have further in my plants af Pertoria" and in the fragmenta" already deposited nearly com plett monographio essenge on cutain ansist, ouch at Kanunalavery Cruitina, Antareae in n, whele as further it would be, in my opinion, hopeless to do justivo to an elaboration afouch genera as Eurolyptus, Mclalauras Julkenaea and others, regul. ning careful study in the freld unless my harborium and its

notes would be fully andilable for comparison. Moddies Mr Wentham without this aid issue his prayer, copius supplements, if not fac even in the a drainable Memoir an Erganiaveal altrations with immediately follow, a neversity which I think might be avoided by atreligements at the autoch. Insiews to statch out a Za w plan of operations to severe 6 the greatest completeness afthe work, you will, my 3 dear In Milliam, find me 4 prepared to send home in integrity portion after from? two ofour standard hista rium as gradually required during the prayers of the work, favoriles of the caller two or an restituted to our botainsal de unseum, whenever the revisal at Row is accomplished. Th shall also be prepared to de. fray the cool af transmis-Lion and remission, if Am Montham will undertake the ex clearanor of the consignments to and fro at Lundon and will always seour the collections again in metal-limby

carefully clood cases, when returned. I will also in my department out up a small woth, I trond for the publication of my works as long as Govern ment omd Varliament Santion the condimence remit £100 . - . - for each nature, 60 that only 250 .-for South Australia) Wen Vanth Wale and Kneenstand enoult be requirut respectively, a contribu tion foir in proportion to our population; and blood the grants for my morkete discontinued Twill save An above operfied our and afray oalary annually for the purpose. I will further arrange, that as far as problible d'agnossos notes on the rough of ye cies, on variation er. and furnished either in prints. or in manusoriph along with the oprovisiona to two transmitter, establishing myclf wo further claims on the authorship of the flora, than some ouch as by untual evucession is co justy held by In Hooken to

wards the Coylon Hora a claim which you feel is die to me in the afficial capacity I hold and under the consideration that was likely any other collictions pland at Mr Benthams disposal are to the same extent elaboration. Mr Woutham thinks to embory not only all Tha Corniflorae but also the Legininosae in the first valume, whilst probably An former will oroung alone It the allotted 500 pages and bhault, Ittink, be held in a wolum separate as a diffinal vivision of the empire of plants. If appears & me also advantagano to sift from operific de scriptions notes relative to measurements and other characters outjit to win Hustuations, nor can. rivormend at long as the prusine and probable work, That it should be enoun leved with little granhoes,

particularly if these are not for the guidance of students arranjanies by analytical details. On the other hand The li'eve an angmentation afthe work by quotations not merely afauthors et spries and genera, but also of the original citat aftheir respective writing would be up valt mibbraction. With centiments of the deepit veneration, remain, my dear di William, your humble and all adul for Mueller.

Vir Mill. Jacker Hooken, R.A., Knileg Hon, S.P. L. L.L.S., FRS., F. SLS. mellourne han youl. Garden, 24. Dec. 1861

My door and verevalle Vir

Your Kind letter, date 15 Cet, hoo been to me the course of very grant gratification and feel thrulful and proud for Any proposition and alloted to wie a show in the work on Anthalian plants. my own prosition is the great admit as a my suborisman one, and it appears & me that you have in the propos title from given more to me as is due of you will Kintly allow me to ouget some olight aldustions it would bi to oulstitute the classically appropriate wave that the 3th aliana to say chathalian turitory cubbon of colonies, as unch of the north, from erhur we how rich callesting will woh be colonized for a good while . Further putings you would say with assidans of notes (only) as many of the Striptione and altray published in same make

as the other I have further to

bring under your notices that I have been succeed with presiding of the Mayal Sartely of Vistoria ley his beelling Vir Hung Harkly a thourhild elected five presidues of the roralina thon Soviety I have ceased of he Director of the goologs Garda, a new & more extraper and having been friend for this zuolog. ettablish wints in an other part of our environe. Theing thus relieved of wary overant nort of my vikes Mall how much mon lees un formy litrasy work Il oan at the oblimates are proont, I doll not fail to rewit the Love for the first walnum of the work. Turnerisely after the arrival of your letter I packed up hy for provide of Thalamflow, camprismy the approximate & Thoeorous outrose, the examination exertich will probably orrups our worth, at it will be offwall table oven to 60 highle experient & coule orghite plint logido al guns elf To limit

But in the westandel, entire neither of the two furness thm, I drall growally enen unish the ranges af hotivileution. On corking the Generican I have placed the plants together as new aways caring nito their course analysis. the for your to derive whatter for instance Will wigate provioulate & augustifulia (altro theor I div anagge, Chould form opinies or narieties. The Contolles require a careful ofting, analyzing & rearranging. The genne is quite waterall ! I hope it will finally full to our Than to end a mornames hotarial genus as a monne und of the great Controlle, and this the grandence of the plant will be commen ourse with the greatures of such a man. - You take that no artitions have been meined & Cooldoopmum. Clastin numerom with probably be C. Frageri of Flancham, lent the a Gregori is inity bottimes. I not the owne as C. Grangerum you find it Isserched with praguents Of Menispormen we have 6 Australian girries.

You way probably find its uaeful & consult my momorpho lodged as How, altho some portions lescome cumented by later werestry attone & com has besome absolute. Tout when I would not employingly solicit fran yar, is nor to armit any yourness except ouch as by the publication of diagnosso. carnet be exclused, without a main my reports, yet anot a friend moun has no claim to he prountgated, as in wort indanois it had been cun noted by my and later invistigations I Chault for instance be comy to see Covoulus Brokeri appear as oyungm in the new work. Then working to Ner William Swoten an that plant, I camanly fruit lud un oraner gut d'af tre mont flouvre, d'ent so causin un différent je in repring it to Septencia Well did own what freed Harry express mucces

an this outpith, when refuring to the hall of names for Ollary ania to Says i , names iquality born to be forgot "! Thus Loquenaria Satterbunia to now ared & the knull Australia flora, Austrich as a Norfulk so land plans it walt not be curetted, will intrust you, as it all's a gruns of great branky and strain rollin tion of a think of could aid a with in your grund plus herem if I had the privat whole. Min way ipput every thouth a cumilar causign went than that now can mounoid; But I do wis think your will be able to plan more than Thalams flore into the first volume I can absure you, that I lack forward with the greated pleasur to the lang regulor & continued correspondency which will a cansed by my hong collect to the howorall per vitton ofarring your, and

62 hope, that you will enchesitatingly internet me and all associate, how I can luch serve your purpose If any particular onto requiring much field steers, is desired typen & he worked up by my delpt of you will provid and, entrich, it will be glady midskaker Must all ciroundants Dwill endervas to um with pragunata & planto of Mictoria alust, the & forsteath your waste With oentiments of the highest regards, diandis, fur Mineller Grow Bentham Edy, Theorisms of the Linear Variety

Tirst consignment of hubaria to Sir Will Hooker for man bound for man for the forwards of hurby this week for the survey of the survey the light of the survey the light of the survey the survey the the survey the with the ship taking the consignment, as also by the mith metal moiss and the cultive and the cultive with metal moiss and the cultive call impressed in it.

Rammoulaveae: Clematio, fasorioleo 2 Rammoulus Anemone, Caltha, Myosura 1. Tahomheae Magnoliareae Monarcae 2 Monimical Dillem'oirear, Henrisdemma, Auttin In Sibbertia (Cylandra) 4, 4 Dibluta ( Pleurandra) memo pirmeae Tanaverareae 3 Camparideae Gruciforal Tatal fase 27.

24/12/61

for Muello.

Downing Street 28 December 1861

I am directed by the Duha of Newcastle to transmit to you, for your information, The enclosed copy of a despatch from the Governor of Queensland, on the subject of a proposal which he had received through you from me Bentham, for the publication of an Australian Flora on a plan similar to that of the Flore of Hong Kong.

your obedient servant Tuesdais

2 William Hooker

Capy.

Nº 40.

Government House.
Brisbane Queensland,
30 th July 1861,

cly Lord Duke

report that I received by the last clearly a letter from Sir livellians Hooker, containing a proposal from ell. Pointhand for the publication of a Flora of antralia and plan similar to that of the Flora Honghougensis lately published by that Gentleman under the authority of the Colonial Office.

2. It appears from ell- Noutham's Oirenlar that the Lords Commissioners of the Treasury adverting to the wealth "of the Several Colonies in australia "and to the sense which they have shown of the interests of Science and commerce, have Stated that they think that "any loarks of the proposed "description may be left to the enterprise of the Colonies themselves, and that there "are no sufficient reasons to warrant their being "undertaken at the cost of this Country, i e of the Cimpercal)

Imperial Treasury. 3. I have recommended, the proposed undertaking to the favorable consideration of my Government; and by the enclosed elimete of Council it will be seen that Queenstans will be ready to bear its fair pragration of the eapense if the other Constration Colonies should also be found willing to cooperate. 4. On my reply to dir William Hooker's letter, I have deggested that he should u

formally ascertain through the

Secretary of State if the other

australian

CUI CUCUIII

Australian Colonies are prepared to give their Cooperation to So desirable an object. I have no doubt that they will be found willing I have to. (Se) G. F. Borocie.

G.S. Since the above despatch was written, I have been informed that Victoria, chera informed that Victoria, chera. South boales, and South austratia, will join Ruccusland in guaranteeing the required sum of £ 250 per Yalune. Sir Sohn young and Sir Henry Barkly think, and I grite agree with

them

avail himself of the Conferation of Dr. elimeter the Government Potanish of Victoria,

(de) G. F. 18.

Oxtract from the climates of Proceedings of the Executive Council of Lovensland on the 29th July 1861.

Present

He How the The Vice President, The How the The attorney General. The How the The attorney General. The How the The Colonial Treasurer,

lays before the Council a letter received from Sir William Hooker Director of the Royal Gardens at New, covering a letter to

himself

Oxtract from the climates of Proceedings of the Executive Council of Queensland on the 29th July 1861.

Present

His Excellency The Governor, The How the The Vice President, The How the The attorney General, The How the The Oslowial Treasurer,

This Excellency the Governor lays before the Council a letter received from Sir William Hospar Director of the Royal Gardens at New, covering a letter to

himself-

himself from elle George Ventham in which certain proposals are made for the publication of a book on the general Flora of australia. Sir lo Hooker urged the importance of the matter, and seeks the co-aperation of the australian Colonies in order that the intending Publisher, ell- Noutham, may be suitably remunerated for a labour that will extend over deveral years.

The propositions to be considered are as follows.

ell. Bentham is prepared to publish the work in guntains,

w

in question in Six or Seven Faluries. He previously requires. a general quarantee of One ed hundred and fifty Founds for each Tolume as published, to meet the expense of Compilation have and publishing, he further ries requires that each of the australian Calonies Shall. undertake to purchase one hundred Capies of the entire work at the price of Twenty Shellings per Valence, if without polates, and Twenty fine Shilling ru with folates. The east to each Colony to be £250 or £325, e, for each talenne, at it may

be published with or without Glates.

The Council deliberate, Convenced that the publication of duch a work as the one under consideration would be a Valuable and important addition to Potanical Literature, and one of peculiar interest to the australian Colonies, they think it would be very deserable that this Colony should Co-operate with the neighbouring Governments, in promoting its publication; and they request that His Eacelliney in replying to the letter of

Sir William Hooker, will notify the readiness of this Government to recommend the Queensland Garliament to undertake its share of the Guarantee and to purchase the required number of Copies of the comptete work, when-= coer Dir William Hooker Shall inform His Excellency the Governor that the other australiane Colonies of checa South loales, Victoria, South australia, Sasmania, loestera australia, and New Lealand are also ready to co-aperate, (de) A. W. cleaning Clerk of the Council,

Downing Sheet 16 January 1862

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I am directed by the Duke of Neuralte to acknowledge the receipt of your letter of the 7th instant upon the subject of the publication of an etustialian Flora. With regard to Western chustralia I am desired to state that as this matter has been settled by direct comeofoondence between yourself and The Governors of The several australian Colonies, it would probably be advisable for you to address yourself to her Humpton, who has lately been appointed Governor of That Colony. I am Sir, your obedient servant

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William Hooher

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> Colomal Seer clays Office Parth. 21 " March 1862.

han the hour to activorledge the receipt of your letter of the 26! January last, relative to the publication of a Stora of Australia, and and directed by His mallency Governm Hampton to inform Jon in Peply Mat the Government of this Colony is not in a position, either priancially or Mercisa, to frank such a quarante as that described in the least Hilliam J. Hooker paragraph Director of the Noyel Gardens

paragraph of the printed paper, which accompanied you letter. It will, however, always five this bevernment buch pleasure to afford you such luformation or assistance as may be within its porce.

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Som word obedeent Servant,

Memorandeem of an Agreement made this 25th day of October, One thousand eight hundred and outy Two, Between George Bensham Ester of the one part and Mess Dwell Reeve Ho. Publishers of the other part.

The said George Bentham having a work in preparation to be entitled "Flora Australiensis, hereby agrees to give to the said Lovell Reve Ho? The exclusive right of printing and publishing at their own expence and risk and for their own profit an Edition of Five hundred Copies of the said work.

and it is understood by the said Livell Rever Ho on entering upon this agreement that one hundred Copies of the said work will be burchased by Ner Mayesty's Sustralian Colonial Government immediately on its publication as the full retail price such price being according to the number of pages fixed as the rate of 201-per 600 pages.
The author to be entisted to purchase any further number of Copies at the Trade price

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Colonial Secretary's Office, Sydney, New Youth Wales, 20th, May 1863.

A proposal by George Bentham Esq, F. L. S. for the preparation and publication of a cheap and useful work descriptive of the Flora of Australia, has been brought under the notice of this Government as explained in the enclosed copy of a minute of the Executive

£50

2. you will observe that a contribution at the rate of Fifty pounds per annum has been promised for seven years from New Touth Wales; and as it appears by a communication received by His Excellency the Governor from Sir William Hooker that some progress has been made in the work I transmit to you a letter of Credit for the suri of fifty pounds Edward Hamilton Esq

Resident Agent for the Colony of New South Wales.

COTOCOTO.

as the first payment from this bolony to Mr. Bentham.

3. The payment should be made through or under the sanction of Sir Williams Hooker.

> I have the honor to be, your most obedient Gervant (Signed) Charles Cowper.

## REVIEW.

PLORA AUSTRALIENSIS: a description of the Plants of the Australian Territory. By George Bentham, F.R.S., P.L.S., assisted by Ferdinand Mueller, M.D., F.R.S. and L.S., Government Botanist, Melbourne, Victoria. Vol. 1. Ranunculaceæ to Anacardiaceæ. Published under the authority of the several Governments of the Australian Colonies. London: Lovell, Reeve, and Co., 5, Henriettastreet, Covent Garden. 1863. pp. 508.

This work, now in the course of publication under the direction of the venerable President of the Linneau Society, assisted by the Government Botanist at Melbourne, is one of a series of Colonial Floras, the preparation of which is mainly owing to the unceasing exertions of Sir William Jackson Hooker, R.H., &c., Director of the Royal Gardens, Kew. In the Preface to the "Flora Capensis," the first volume of which was published in 1860, Harvey and Sonder—the authors of that work—observe that "first, and specially, they are most deeply indebted to Sir William Hooker, not only for throwing open to them, in the freest they are most deeply indebted to Sir William Hooker, not only for throwing open to them, in the freest manner, the univalled Kew Herbarium .... but also for the great interest he has from the commencement shown in their undertaking. To him primarily it is due that the work was set on foot. He it was who suggested it, and assisted in devising the plan on which it should be moulded; he also introduced the authors to many valued South African correspondents ....; and, lastly, his strong recommendation of the authors to many valued South African correspondents ....; and, lastly, his strong recommendation of the authors to many valued South African correspondents ....; and, lastly, his strong recommendation of the authors of the great from the Golonia Parliament." To the same patronage, and that of his learned brother, Dr. Hooker, we are principally indebted for the "Flora Hongkongenis," or a description of the flowering plants and ferras of the Island of Hongkong, which was published by Mr. Bentham in 1861, under the authority of her Majesty's Secretary of State for the Colonies. And now again in the preface to the volume before us, the same writer remarks:—"The chief foundation of the work may be said to be the vast herbarium of Sir William, Mr. Bentham refers to the co-operation of Dr. Hoeker, and his valuable essay en the Flora of Australia, prefixed to his work on the Flora of Tasmania; but he justly regards the herbarium of the late Robert Brown, which is deposited in the British Museum, as "the main foundation of our knowledge of Australian vegetation." This extraordinary man, whom the Illustrious Humboldt designates Botanicorum facile Princeps, accompanied Finders on his survey of the Australian Cossts, and on his return to England in 1806, took with him nearly 4000 species of plants, and "an inexhaustible store of new ideas in relation to the characters, distribution, and effinition of Dr. Brown, Mr. Bentham hears willing testimony, and affirms that in his herbarium, in most cases, several of each species m

Mueller was naturally looked to as the botanist best qualified for undertaking the task of preparing it; and in the hope that it would be entrusted to him, he had devoted his utmost energies to collecting the necessary materials. But there was one indispensable step, the examination of European herbaria where the published types were deposited, which he was unable to take; and it is a signal proof of the generosity of his disposition and the absence of all selfishness, that when it was proposed to him that the preparation of the Flora should be confided to me, on account of the facilities which my position here gave me for the examination of the examination of European nerman warm and expective types were deposited, which he was unable to take; and it is a signal proof of the generosity of his disposition and the absence of all selfatiness, that when it was proposed to him that the preparation of the Flora should be confided to me, on account of the facilities which my position here gave me for the examination of the Australian collections I have mentioned above, he not only gave up his long cherished projects in my favour, but promised to do all in his power to assist me,—a promise which he has fulfilled with the most perfect faith. A joint work was at first thought of, but independently of the ordinary drawbacks attending on joint works, the distance which separates us, requiring four months to obtain an answer to every trivial doubt or query, put this quite out of the question. I alone am therefore responsible for the details of this work, for the limitation given to genera and species, for their characters and descriptions. But inportant observations have been frequently suggested by the published works of Dr. Mweller, or by his manuscript notes, which he has freely communicated; and a still more essential and generous contribution to the work has been the loan of the very rich herbarium he had amassed for the Australian Flora, which he remits to me in instalments." Here, then, we see the relative position of the two botanite associated together in the great work of describing the Flora of Australia; and it cannot be a matter of congratulation to every one who has reflected on the subject, that whilst the one has the advantage of examining the herbaria of preceding botanists, and comparing specimens forwarded to Europe from all the known parts of this vast continent, the other has an opportunity of noticing, in a living state, many of those plants which cannot be satisfactorily described from dried specimens, and of preventing the multiplication of species from a want of studying the variations of a plant arising from local causes. In the volume be

or indirectly, to his great work, "with a sketch of their labours!"

or indirectly, to his great work, "with a sketch of their labours!"

With regard to the form and language adopted in the present work, Mr. Bentham has followed the system sanctioned by Sir W. Hooker for colonial floras in general. In the first place he has preixed to his work, by way of an introduction to the study of Australian Botany, an elaborate outline of the definitions now usually adopted by scientific botanists, so that no one in reading the work may mistake the author's meaning. This is not only in accordance with the caution of the great orator of antiquity, "that every clear and rational discourse upon any subject ought first to begin with an explication of that subject;" but it is what common sense dictates; for, as the book may fall into the hands of many persons unaccustomted to scientific language, some explanation seems absolutely necessary in order fully to understand the writer. The "Flora Australiensis" is composed in the vulgar tongue, and therefore not intended exclusively for the learned; consequently, we regard the introductory

chapter as highly important, and recommend it to the study of all who are desirous of attaining a sound knowledge of the subject. There are, indeed, excellent works on the elements of botany, which are well known to the botanical student: but as these cannot always be procured in a distant colony, and even if they can, are not sometimes within reach when most required, Mr. Bentham has rendered an essential service by compressing into a small compass all that is necessary for the guidance of those who wish to comprehend the terms he employs. Proceeding to the consideration of systematic Botany, Mr. Bentham gives the following definition of the word species: "A species comprises all the individual plants which resemble each other sufficiently to make us conclude that they are all, or may have been all, descended from a common parent. These individuals may often differ from each other in many striking particulars, such as the colour of the flower, size of the leaf, &c., but these particulars are such as experience teaches us are liable to vary in the seedlings raised from one individual."—

From the time of Linnœus to the commencement of the present century, it seemed a sufficient definition vary in the seedlings raised from one individual."—
From the time of Linnœus to the commencement of the present century, it seemed a sufficient definition of the term species to say, that a "species consisted of individuals all resembling each other, and reproducing their like by generation," but in the progress of science it has been found necessary to define the term with greater accuracy, for it is admitted that "varieties" not merely resembled each other, but sometimes come true from seed. It would be out of place on the present occasion to open up the abstruse question on the origin of species, which has of late been agitated by men of such ability as Darwin and Lyell, for the popular definitions of Mr. Bentham seem quite sufficient for the work before him, and are generally admitted by the scientific world; but until further progress has been made in this most interesting but difficult subject, much obscurity will continue to rest on the terms "species" and "variety;" and whilst some botanists regard a plant as "a true species," others will pronounce it "a mere variety." Indeed, in the very book before us, Mr. Bentham candidly admits, "many of the varieties which I have indicated will be considered as distinct species by a large number of general botanists; on the other hand, there are many forms which I have adopted as species which Dr. Mueller is disposed to reduce." There is certainly great difficulty in this matter, but probably the obscurity arises from the imperfection of our knowledge, ber of general botanists; on the other hand, there are many forms which I have adopted as species which Dr. Mueller is disposed to reduce." There is certainly great difficulty in this matter, but probably the obscurity arises from the imperfection of our knowledge, and especially from not taking into consideration the amount of variation to which true species are capable. And here it must be observed that, so far as Australian botany is concerned in this question, Dr. Mueller's assistance must prove invaluable to Mr. Bentham, for the Doctor has the great advantage of observing many plants living in their native stations, and of noticing the variations to which they are subject. Mr. Bentham remarks, "In some cases I have yielded to his opinion, rather against the conclusion I should have come to from the examination of dried specimens;" and again, after adverting to the variation of species, he proceeds to say, "little as we know, for instance, of the influence of natural hybridizing in Europe, it has been still less, if ever, observed in Australia; and many other causes may have produced apparent passages between species really distinct. I have, therefore, wherever there is a difference of opinion between Dr. Mueller and myself, adopted the conclusion which has appeared to me most probable, and mentioned the objection to it for the consideration, and, if possible, the decision of future botanists." There appear, also, some differences of opinion as to the limitation of genera, some of which the Doctor would combine, as for instance, amongst the Rutaceaa, he regards Zieria as a section of the genus Boronia; and, again, he proposes to consider Phebalium, Philothrea Crowea, &c., as mere sections of the genus Eriostemon. This, however, is a question of arrangement, and perhaps may possess some advantages in assisting the memory, but so far as regards the merit and utility of Mr. Bentham's chapter on "Vegetable Anatomy and Physiology," as also that on the "Collection, Preservation, and Determination of Plants," cont and Determination of Plants," contains much useful information, and some sound practical hints for collectors of specimens, but in order to appreciate them they must be read and studied attentively. Proceeding to the great orders of Plants described in the Flora Australiansis, we find that thirty-nine are described, viz., from the Ranunculacca to the Anacardiacca. These are what botanists term Dicotyledons, and this division comprises all Australian trees and shrubs, except palms, a few ferns and bamboos, and a few others with linear grass-like leaves. In the arrangement of the orders great judgment is displayed, as well as a most extensive knowledge of the vegetable kingdom; but the characters given are not to be regarded as absolute, nor without exception, and they are inserted for the purpose of calling attention to one or two of the most striking or most important features of each order. In his descriptions, Mr. Bentham has studied brevity without exposing himself to the charge of being obscure, but owing to his anxiety to bring out the first volume of his work with as little delay as possible, he was compelled to send it to the press without inserting some additional information he had received from Australia at the eleventh hour. This he proposes to work up in the shape of "addenda and corrigenda" in a supplement to be issued with the second volume, when it is presumed he will correct also some trifling errors in the names of persons and places which have accidentally crept into the book. It

would be well, likewise, to give the correct habitat of plants, so far as it can be ascertained, for some are by no means so limited in their range as would appear. Thus, for instance, Correca alba, which is common about Port Jackson, is described as occurring in Victoria, Tasmania, and South Australia. Hibbertia dendata is said to grow in woods and stoney places near the sea—Port Jackson—whereas it is also found on the banks of creeks some distance inland. Cardamine stylosa is given to Mount Lindsay, although it is met with in many parts of this colony, &c., &c. These and other such omissions are little matters which admit of easy correction, and probably are amongst the "addenda and corrigenda" alluded to above. It may perhaps be deemed too trilling to mention some other innecuracies, but should another edition of the first volume be called for, it would be as well to substitute Sir Thomas Mitchell (p. 9) for Sir William Mitchell, and the colony of "New South Wales" for that of "Port Jackson" (p. 54.) Some persons have also suggested that the title of the book should be "Flora Australiensis," as the former is deemed more classical. Whatever opinions we may entertain on this question, we would rather take a comprehensive view of the whole work, and exclaim with the exquisite critic site critic-

this question, we would rather take a comprehensive view of the whole work, and exclaim with the exquisite critic—

Non ego faucis
Offendar maculia, quas aut incuria fudit,
Aut humana parum cavit natura!

Considered as a whole, the first volume of our Flora is, indeed, highly creditable to the distinguished President of the Linnean Society, and his learned assistant, and the circulation of it throughout the civilised world will do much to develope the vegetable resources of this vast continent. We cannot, therefore, but congratulate our fellow-colonists on the commencement of so valuable a work, and we trust that by the blessing of God the same illustrious individuals who have made so auspicious a beginning of the "Flora Australiensis," may be permitted to bring it to a satisfactory termination. Much remains, however, to be accomplished; but with the assistance of the British and Australian Governments—which are pledged to give pecuniary aid towards defraying the expenses of the publication. We hope that nothing may occur to prevent the fulfilment of the original plan. Of late years the study of the vegetable kingdom has been pursued with a degree of zeal and success unknown in former ages, but still the sale of works purely scientific is so limited that they can seldom be said to pay their expenses. Professor Harvey, who has just completed his splendid work on Australian Algæ, could scarcely have carried on his labours without the assistance of the University of Dublin and of the Royal Dublin Society. The colonial public, for whose use it was especially designed, have contributed but little towards the expenses in the purchase of copies, although one would imagine that few persons fond of, natural history, and residing near the sea-coast, would deny themselves the pleasure of possessing so elegant a work. Dr. Harvey seems to have an-ticipated something of the kind, for he remarks:—"Great cities are springing up in the Australian

would deny themselves the pleasure of possessing so elegant a work. Dr. Harvey sceme to baye andicipated something of the kind, for he remarks:—
"Great cities are springing up in the Australian colonies; and swatering-places, to which the citizen takes his family to enjoy the sea-breezes during the summer time, are coming into being. English tastes and habits are produced at the antipodes; and among these a love of natural history may be prominently reckoned." Let us hope that the treasures of the deep, once designated "inutiles Alga," but now esteemed as "Occan's gay flowers," and obtaining a local habitation and a name" in the Vegetable Kingdom, may lead on many to the study of the marine flora, which, on these coasts, is supposed to number about 1000 species. Such a work as Prosessor Harvey's is indeed a suitable companion for the citizen and his family" at the sea-side, and it may be regarded as justly entitled to stand side by side with the terrestrial flora which we have been considering. Indeed, Dr. Mueller, who rendered Prosessor Harvey much assistance in the preparation of his Phycologia Australica, by sending him specimens of Alga from Victoria and other parts of Australia, includes the Marine Flora in his estimate of our vegetable kingdom. "According" says the Doctor, "to a computation instituted by R. Brown, in 1849, the number of plants known from New Holland and Van Diemen's Land scarcely amounted to 7000. Botanical researches in West Australia, Tasmania, South Australia, and the colony of Victoria, have added since, from places formerly inaccessible, exclusive of Cryptogamia, at least 1000 species. Assuming that the increase of new Australian Cryptogamia plants comprises 500 species, which cannot be considered overrated, when we remember how far alone our Marine Flora, through the investigations of Professor Harvey, became augmented; and if only of those plants which resulted from the North Australian expedition, 500 are regarded as wanting in existing former collections; I believe we may then Australian expedition, 500 are regarded as wanting in existing former collections; I believe we may then safely assume that we are at present more or less acquainted with 9000 Australian plants." Arguing from quainted with 9000 Australian plants." Arguing from these premises, and the scantiness of vegetation in Central Australia, Dr. Mueller expresses an opinion that in all probability the whole vegetable empire of Australia, inclusive of Tasmania, does not comprise above 10,000 species, without reckoning fungi. This computation was made in 1867; but we are not aware that the Doctor has materially altered his views on the

subject since that period. Little, indeed, is known of the Cryptogamic botany of Australia with the exception of the sea-weeds and ferns, and of the latter a new and systematic arrangement is much needed, as many species have been discovered since the days of Brown. It was reported that Mr. Moore, the Director of the Botanical Gardens, contemplated the publication of a work on the ferns of Australia; but, should this be the case, there will still remain a vast field for discovery in the mossee, lichens, and fungi, many of which are as yet undescribed. Dr. Mueller remarks that in North, North-Western, and Central Australia Cryptogamic plants diminish in number with the decrease of atmospherical humidity to such an extent that their relative proportions to the rest of the vegetation is probably much smaller than in any other part of the globe, mosses and lichens being almost entirely excluded from many extensive tracts of the country. Probably this may be true in a dry season, but as Usnea Carbata was noticed in latitude 19° S., and Funaria hygrometrica just on the border of the tropic, it seems but reasonable to suppose that, in a season moderately damp, many cosmopolitan species of mosses and lichens would spring up, as well as numerous fungi. However this may be, it is satisfactory to know that there never was a period since the foundation of the colony, when greater attention was paid to the vegetable kingdom of Australia than at the present time; and that too by men who have a European reputation, whose names and labours are, perhaps, better known by the educated in London, Paris, and Vienna than they are by the same class in Sydney. The influence of such enquiries does not extend merely to the promotion of botanical knowledge, properly so called, but it embraces a much wider range, being calculated to develop resources which may hereafter be turned to account in medicine, commerce, and the arts. Dr. Mueller, in his published works, has already given many useful hints on these subjects, especially in referen

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Office of Agent General for South Australia, 5, Copthall Court

Thegues received Sondon, 27 July 1863

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I have the honer to acknowledge:

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To Sir Wan I. Hooker,

Director of the Royal Gardens

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Treasury, Sydney, 19 December 1866

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I beg to acknowledge,

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15th Octoba last, Laving reference

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ALD. Stooker Ey., M.D., J. R. L.

Kew.

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8 Victoria Chambers. Victoria Street.

Westminster S.W.

Set april 1869

Sir, I have received from the Treasurer of Victoria, auskalia. One hundred pounds which I am directed to pay to you, being the subscription of the Government to the work Flow australienses for the 4th Volume.

I enclose a four of account un duplicate which, perhaps, you will be good enough to sign and return to me when I will send you a cheque for the amount.

I have the horone to be Your most obedient servant

George Bentham Cogse ? F. R.S. P. L. S.

Un! Holm Ogent-General for Victoria

Queensland Toverment Offices, 32, Chaing bross, London. March 27 16 1871. In rieply to your letter of the 26 th instant, I have to inform you that I have received a communication from the Colonial Secretary, Queenoland, dated 25th January, by the mail which arrived on the 24 th instant, in which it is stated that the brown Agents are authorised to pay you the subscription on account of your work the "Hotel Australiensis." Your application therefore, should

George Frentham lags 25, Willon Place, 5: W. be made to the brown Agents. The Colonial Secretary states that the 15 copies of the 5th volume mentioned in your letter of the 21 the September last, so having been forwarded, had not been pecewed. Sam, Sio, Town obedient Servant, I Douglas

88/72 & Victoria Chambers, Victoria Street. Westminsterp s. w. 11 hamf 1872 Thi I have the pleasure to forward n a chequie at motherdorio request fatiloopayment of the subscription of Mufonem = I of tectoria for the 6th Volume of the ora australismois for which you have already en gon recept; Tamf You obedient dero and Brutham Egre F.R. S. 2 Manny 26 Welow Place oracemento.

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8 Victoria Chambers. Victoria Street. Westminster! S.W. 25" Feby 1874.

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P. S. W. Harbert Con Coloniac Office

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September 1

Downing Street 9th august 1878. Li, lam derected by the Leculary of State for the Colonies to acknowledge the receipt of your letter of the 24th of July, calling his attention to the publication of the seventh and last volume of the Flora Australiensis, compiled by Mr Bentham, late President of the Lennan Lociety of

Sir f. Hooker Kedel C.B.

2. Sam to request that you will convey to Mr Bentham the expression of the Leculary of States gratification at learning that this important work which his huchael becks Beach is aware has long engageged. Mr Bentham's altention and which will remain a valuable and exhaustive record of the Botany of the austration Colonies has been brought to a satisfactory 3. Sir brichael thicks

Bench will have pleasure.

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in transmitting a copy of the correspondence to the austration foremore and for communication to Dr Von Müeller who has so largely and generously contributed to the success of the undertaking. 4. a copy of the Bentham's work hus been ordered for the use of the Lebrary in the Colonial Office. 5. Sir Michael Hicks Beach feels no doubt that the facilities which you have afforded to the Bentham in carrying on the studies necessary for the

elaboration

elaboration of the work have been of great use to him, and that as on many previous accasions, the Colonies are indibted to yourself for much personal care and Your most obedient Levant Robert Werbert.

We are sure our readers must have felt gratified by the honor which Queen Victoria has been pleased to confer on our Government Botanist, and through him on the colony of Victoria, by conferring on Baron Von Mueller the distinction of Knight Communder of St. Michael and St. George. We are glad also to know that the venerable Goorge Bentham, who for upwards of half a century has been an earnest and zealous worker in descriptive Botanic Science, has been made the recipient of the honor of C.M.G. That he also has not been made a knight may perhaps find an explanation in the fact that, as is believed, he is averse to all titular distinctions; moreover, the rule is hardly over relaxed which requires a member of a British order to pass through all its grades; unless, therefore, this incomporable botanist has an invincible objection to a knighthood or baronetcy, it may be considered certain that he will be promoted ere long, after his illustrious career not merely in connection with the vegetation of Australia, but also that of other portions of the globe. They who are acquainted with the labors of Baron Von Mueller, and the immense benefits he has conferred upon the Australian colonies, and Victoria in particular, will recognise his claim to the honor for which such an opportune time-the completion of the Fiora Australiensis-has been chosen. The Baron's work has been carried on uninterruptedly in Australia for nearly a third of a century, his personal researches extending over lines of about 23,000 miles in extent. From 1847 to 1852 he examined a large extent of South Australia for its plants, to the Victorian borders, after a previous University career. He was created Government Botanist by Mr. Latrobe, and in 1857 became Director of the Botanic Garden under Sir Henry Barkly. He explored the then trackless Australian Alps from 1853 to 1855, when he joined Gregory in the expedition sent out by the Duke of Newcastle through tropical Australia, an expedition which was sixteen months away from any settlement. These and some subsequent travels in West Australia and elsewhere enabled him to amass such a large extent of elaborated collections, to which also numerous emissaries and amateur correspondents contributed, that, mainly through the aid of the Baron, the completion by Mr. Benthan of the Universal Flora of Australia, commenced by Robert Brown in the beginning of the century, became possible, Thus the Flora Australiansis arose and was carried out by Mr. Benthum in seven large volumes, a work to which Baron Von Mueller largely contributed, and which indeed could not have been undertaken or completed without his co-operation. It is a work which will stand as a monument and reflect credit on Victoria for ages yet to come, and is at the present time unequalled, no work of the kind having yet been completed for any of the other great divisions of the globe—not even for Europe. The Baron's own independent works comprise about twenty volumes of various sizes, descriptive or applied, concerning Australian plants, irrespective of reports, stray essays and the like, besides the introduction, testing and distributing of numerous exotic plants. He may also fairly claim to have greatly advanced the geographical exploration of Australia, and also that several most important geographic co-operation. It is a work which will stand the geographical exploration of Austrains, and also that several most important geographic expeditions arose through his action. His labors through laboratory work and the dissemination of varied information in promoting ever recognition of the vegetable products of Australia are well known, though not at present encouraged as they ought to be. It may be supposed that this bestowal of so high a mark of distinction from the throne of Great Reitsia is to some extent equipment of the supposed that the second of the second o of distinction from the throne of Great Britain is to some extent owing to a wish on the part of the Home Government to encou-rage scientific research in this, the fifth conti-nent, where Baron Mueller is now the senior scientific worker, and which occupies a larger area than all the other British possessions in the eastern hemisphere. It is also a great encou-ragement to Baron Von Mueller to proceed with his researches and labors, for abundance with his researches and labors, for abundance of toil remains in finishing what he has begun; a supplement to the *Plora Austratiensis*, which now solely devolves upon him, being not the least important. And we may trust that the Government of Victoria will liberally respond to the death of the control of the con