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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Lieber Herr Professor Rock,

Kürzlich sandte ich Ihnen einige Separata von neuen Arbeiten, die ich herausgebracht habe. Ich hoffe, dass Sie diese gut erhalten. Die letzte Sendung muss enthalten: Der Hund in den rel. Vorst. der Tibeter. - Shaktistisches im Lamaismus der Tibeter. - Über die Irrigationstechnik der Tibeter.

-Das tibetische Kungser-Spiel.

In Ihrem Aufsetz, life among the Lamas of Choni,
The Net. Geogr. Mag., finde ich auf S.584 ff.und
Abb.607/neben dem chinesischen Mönch auch einen
Alten Menn mit seiner alten Frau. Ba ich z.Zt.
über den Weissen Alten der Tibeter scam-po-dkarpo) schreibe, der als Tsaghan-ebügen im mongolischer
'Cham vorkommt, erlaube ich mir die Frage, ob Sie
in Choni etwas erfahren konnten. Ist der elte
Mann mit seiner Frau, dieser scam-po-dkar-po?
Digitize det terent ehtspricht (Mem Man-11u-ddu-ndzi hat aber

eine Frau. Ich wäre Ihnen für eine kurze und baldige Notiz

recht dankbar.

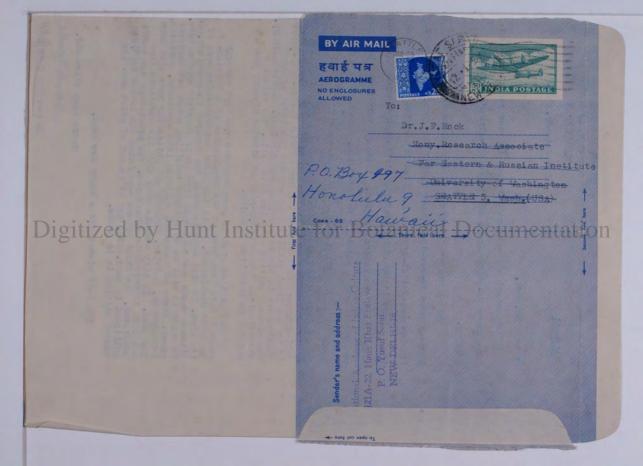
Nun hat das neue Jehr begonnen und ich wünsche Ihnen von Herzen viel Freude, Erfolg, Gesundheit und Zufriedenheit.

Mit meinen besten Grüssen bleibe ich stets

Thr

1 your afrons

")unter den Tanzmasken



J21A-22, Haun Khas Fee P. O. Yusuf Scrat NEW DELHI-16

Airmail

10th January, 1959.

My dear Dr. Rock,

The amount of work you have put in your recent work on "The Amnye Ma-chhen Range and Ajacent Regions" is indeed amazing.

I have a unique xylograph of the celebrated historian Sumpa-khampo Ye-ses-dpal-hbyor giving the Annals of Kokonor (Mtsho-shon-gyi lo-rgyus...). I am interested in publishing it. I hope it would be useful contribution towards the under standing of the Kokonor region. I should very much like that you contribute a detailed introduction, in which case the wor

Digitized by Hunt lastitute for Botanical Documentation

I have just finished the edition of part III of the Ristorical work Dpag-bsam-ljon-bzam by the celebrated historiographer and chronologist Summakhampo Ye-sea dpal-hbyor It is the final portion that was not published by Sarat Chandra Das in his edition(Pag Sam Jon Zang, Calcutta 1908). The present edition contains inter alia, the valuable chronological tables (rehu-mig) of Tibetan history and the portion on Mongolian Buddhism.

You will be glad to know that for the last several years I have been busy on the preparation of a Tibetan-Sanskrit Dictionary. It is the first comprehensive work of its kind. It will contain about two hundred thousand (200,000 Tibetan words and compounds with their Sanskrit equivalents. In print it will be 40 volumes totalling about ten thousand pages. Terms of technical subjects like astronomy, medicine, iconography, metrics, prosody and philosophy have also been included. It will contain over 1000 illustrations from original iconographic xylographs. The press-copy has been completed. The first volume containing the letter ka(M) was published in Sept. 1958, but it is out of print now. Its second edition is in press.

With best wishes for a happy New Year,

Yours very sincerely, Lokesh Chandra

Dr. LOKESH CHANDRA

Trusting you are well in healt

Sincerely,

Conf. Trench, Trubner & (

PAR AVION AIR LETTER AFBOGRAMM



Dr. J. F. Rock.

P. O. Box 497,

Honolulu,

Hawaii.

Hunt Institute for Botanica

r Botanical Decumentation

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AN AIR LETTER SHOULD NOT CONTAIN ANY ENCLOSURE; IF IT DOES IT WILL BE SURCHARGED OR SENT BY ORDINARY MAIL.

KEGAN PAUL, TRENCH,

13th January, 1959

Dr. J. F. Rock. P.O. Box 497, Hawaii.

Dear Dr. Rock,

Thank you for your letter of 5th January. From your order of books from our Catalogue LVIII two items were sent to you - 1273. D'Ollone: Les Derniers Barbes, and 1258. Bell: Portrait of the Dalai Digitiziana. Ilhope the book by 1901 ane has now antived; Cive sent you at entation the same time one of our printed book reports. These we have had to use in the last few months because it has been found impossible to get individual letters done. You will probably find a book report in the D'Ohllone when it arrives and this will report that the following items which you ordered were already sold.

> 962. Audemard: Exploration Hydrographique 1014. Cordier: Les Mo-Sos. 1235. Wittfogel: History of Chinese Society 1332. Stein: Innermost Asia.

You did not order item 1250. Schulemann: Geschichte der Dalai-Lamas, and I do not quite understand the remark in your letter that we offered a copy of the 2nd edition for £1.5s. We appear to have only one entry of this book, No. 1250, where the 1957 edition is offered for £3. Is it this that you want? If so we can obtain a copy for you.

I regret that I see no chance of obtaining the other items which you had unfortunately missed.

We are sending off to you the second edition of Mayers: Chinese Government as you request.

I am glad to know that your dictionary is finished and I hope your publishers will send us a notice in good time so that we may get

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Seattle Rhododendron Society

Chapter American Rhododendron Societu

815 W. 116th Seattle 77, Wash. January 21, 1959

Dr. J. F. Rock Box 497 Honolulu, T. H.

Dear Dr. Rock:

Thank you for your prompt reply to my letter. I am sorry you cannot speak to our group.

Digitized in the future, if you are passing through Seattle and your cumen group, I would deem it a pleasure to arrange a banquet. The Seattle Chapter has a study group of approximately thirty-five members who meet once a month in addition to the regular meeting. Most of us are raising plants that bear your numbers and plants are coming along from the Edinburgh seeds you obtained for us.

> It is very kind of you to offer to obtain seeds for us again and we would indeed be pleased to receive seeds from selfed plants of your numbers, or any others that you might deem interesting and suitable for this climate. We would also be interested in importing clones of outstanding color forms if you can advise us where they are available.

May you have a wonderful trip, and do stop to see us sometime.

Yours very sincerely,

SEATTLE RHODODENDRON SOCIETY

Ralph/C. Jacobson, President



TERRITORY OF HAWAII

BOARD OF COMMISSIONERS OF AGRICULTURE AND FORESTRY

HILO, T. H.

January 22, 1959

Dr. Joseph F. Rock c/o P. O. Box 497 Honolulu, T. H.

Dear Pohaku:

This will acknowledge receipt of your letter dated January 19, 1959 together with two packets of seed for which I thank you.

I am interested in the plants which you mentioned you are bringing in from Florida. Some of them should be nice. Triplaris Digitized baselines, of course, we already have as you probably know, it mentation has been here for many years.

You asked me if we had <u>Calycophyllum</u> <u>candidissima</u>. I do not recognize the name and do not think that we have it, nor do we have <u>Erythrina</u> <u>senegalensis</u>. Seed would be appreciated.

I am happy to know that the cuttings and seeds which we furnished you sometime ago are growing. I will have somebody check our <u>Bauhinia</u> cumingiana and if seed are ready, I will send them to you.

Best regards,

Very truly yours,

L. W. Bryan Associate Forester

LWB/km

just chuchel of the pods are still green

AEROGRAMME LUCHTPOSTBLAD



Dr.J.F. Rock, Post Office 497 Honolulu 9 , Hawaii

PAR AVION / PER LUCHTPOST

EXPEDITENT AFTENDER

Nonnensteeg 1 LEIDEN (Holland)

NIETS INSLUITEN!
Indien zulks toch geschiedt, dan wordt deze brief per boot/trein verzonden
Digitized by Hunt Institute for Botanical Documentation

Sehr verehrter Herr Dr. Rock,

Vielen Dank für Ihr freundliches Schreiben v.18.Ja Da ich wusste dass Sie eine Weile in Delat gelebt haben dachte ich mir schon dass Sie die dortigen ha odendren gesehen haben Indochine ist voll davon und einige Arten sind besonders bemerkenswert, weil sie den nahen Zusammenhang mit Malesischen Rhododendren zeigen. Wir haben jetzt immer mehr solche Beziehu gen S.Annam-Sumatra resp. N.Borneo(und auch zum (teil der Malay Feninsula:Johore!) im Laufe unserer hiesigen Barbeitungen vonsämlien für die 'Flora Malesiana' sufdecken können und sind immer bemüht, das in Paris liegende umfangreiche noch unbearbei deliegende Materiel aus Indochina(vor allem leg. Elane) in die Revisionen malesischer Formengruppen en zubeziehen. Ich habe das vor einigen Jahren auch für hasiteienen Froteaceen mitrevidiert.

Tch bin glücklich,nach der "atastrophe des Berliner".
Bot.M.,seums und einigen wissenschaftlich recht in-teressanten,aber finanziell katastrophalen ahren 1991 in Argentinien(Tucumán) nun hier in Ruhe am Reichsherbar arbeiten zu können,wo ich vor zwei Jahren als Curator übernommen bin.Leiden hat sich unter der eitung von Prof.Lam und v.Steenis(Fl.Malesiand-48 zu einem einzigartigen Zentrum für das Studium der -bFlora von Malesien und seiner Randgebiete entwickelt

Digitize herrachtmiar edin mehf mutentzelktzelndomitiken altion gen nach allen übrigen Zentren der syst. Botanik, und og susgezeichnete Möglichkeiten, um zu publizieren. Wir würden uns sehr freuen, sie bei uns als Gast zu seher wirden einige colour slides zeigen. Wenn Sie einen öffer nen Kurzen Vortrag halten tlichen Vortrag scheuen, dann gerne bei mir im kleinen Kreise wirklich interessierter wenschen zu Hausen.

In Honolulu sind Sie sicher mit den beiden Degeners bekannt She ist Berlinerin und hat vor 10 Jahren ihre Doktorarveit unter meiner Leitung gemecht.

Thr Buch von 1956 habe ich angekündigt gesehen, aber noch nicht in Händen gehabt. Wenn ich nächstes Jahr wieder am Brit. M. seum zu tun habe, werde ich es ausleihen, um es in Huhe abends zu haben werde ich es

Im Heichsherbar werden Sie einen chines. Botaniker sehen, Dr. Ding Hou, der in der Fl. Malesiana arbeitet. Er freut sich schon auf Ihren Bassch.

In Erwartung Thres Kommens grüsst Sie vielmals
Thr sehr ergebener

M-Klenner

BY AIR MAIL AEROGRAMME NO ENGLOSURES Dr.Lokesh Chandra To: Dr.J.F. Rock Post Box 497 Very Honolulu 9 (Hawaii) To open cut here -

International Academy of Indian Culture.
J21A-22 Hone Khas Enclave
P. O. Yusuf Serai.
NEW DELHI-16,

January 31. 1959.

Airmail

My dear Dr. Rock.

Your letter of 23.1.59. I am glad to learn about your Nakhi dictionary which is going to open up new fields in His Asian researches. The descriptions of gods, goddesses, demigods, nagas and other divine beings would be a most welcome feature of your imparalleled lexicon.

It would be a pleasure for me to meet you whenever you chance to pass to come to Delhi.

I have passed on your order for Dpag-bsam-ljon-bzang Digitized bypartitut to the toffice of the lacademy. Documentation

You may kindly send a formal order for subscribing to the Tibetan-Sanskrit Dictionary volumes 1-20. The first volume will be reprinted in April 1959. Volume II will appear in July 1959.

I went to the photostaters. They want 50nP.(i.e.8 As.) per page. The whole of Pag Sam Jon Zang will cost consider, able money. If you agree to these rates then please inform me. I shall be very glad to have the whole book photostated for you. We shall have to pay the amount inadvance. So you may kindly send as advance a draft for three hundred rupees in the name of the International Academy of Indian Culture (Please do not sent the draft in my name). Please convey my regards to Prof. Tucci when you meet him in Rome.

With best wishes and appreciation for your singular

Lieber, vershrter Herr Professor Rock,

Ihren freundlichen Brief habe ich heute erhalten. Ich danke Ihnen bestens für die ausführliche Auskunft. Inzwischen habe ich eine kleine arbeit über den sGem-po-dkar-po zusammengestellt.soweit das jetzt schon möglich ist.lch bin zu interessanten Schlüssen gekommen. Debei spielte eine besondere Rolle die Anm. 10 des Vol. I Ihres Werkes The Na-Khi Nage Cult. Ich bin der Uberzeugung. dess die Na-khi für die Aufschlusselung vieler Fragen der tibetischen Ur- und Fruhgeschichte von grösserer Bedeutung sind, als bisher angenommen wurde. Wenn men berücksichtigt, dass sGam-po-dkar-po im vorlamsistischen 'Cham offenbar eine grosse Rolle gespielt hat, die in Zentral- u. westtibet durch Hva-Shang verdrängt wurde, aber in der Mongolei noch erhalten blieb, wenn auch rudimentär. wenn man weiter in Erwägung zicht. dass der Weisse Alte in Gebieten tungider Besiedelung Hoch-u. Zentralesiens weit verbreitet ist bis hinein nach Europa, hinsuf nach Sibirien, hinüber nach Korea und hinunter nach China, dann gewinnt die Bedeutung der Gestelt des Muen-llu-dau-ndzi bei den Ne-khi an Gewicht, vor allem week han die demit verbundenen Traditionen der Ne Khi betrachtet diese welsen out in altes Siedlungsgebiet in Nordosttibet Die Ne khi-Uberlieferung verbunden mit der koreanischen Traditione und der chinesischen Ikonographie mit dem Turmschädel, ferner die Ausrüstung des sGam-po-dker-po im 'Cham mit Bogen, Pfeil und La ze lassen den weissen Alten als uralte Gottheit Hochasien erkennen, die vielerorts als Berggottheit zugleich der Sippemursprung war. Die chinesische Ikonographie nach Übernehme des Weissen Alten geht ihre eigenen wege und hat weithin die Ikonographie dieser Gestalt in Zentral- und Ostasien beeinflusst. Daneben besteht aber noch die ältere, einstige Ikonographie, wie sie die Ausrustung im 'Chem erhalten hat. Es ist die Ausrustung der vorlamaistischen Berggottheiten! So meine ich auch, dass die chinesische Variante bzw. die Angleichung an diese bei den Ne-khi ist relativ jungtich bin überzeugt. dess die Na-khi den Weissen Alten schon kannten, ehe sie nach Suden aufgebrochen sind. Des lässt vor ellem die mit Man-110-du-ndzi verbundene Tradition noch durchscheinen. Ich habe das alles in einer kleinen Studie an Hand eines

tibetischen Bildes im Besitze meines Freundes, Prof. Steinmann in Zurich, susgeführt und sende Ihnen nach Druck ein Separetum zu.

Gerade in diesem Zusammenhang wurde mir wieder einmal die Bedeutung der Na-khi für die Tibetologie bewusst. Leider kann ich den Dingen nicht ausführlicher nachgehen, de mich ein Beruf zur Ernährung Wesentlich an der Durchführung wissenschaftlicher Arbeiten hindert, desgleichen die Abgeschiedenheit von grösseren Bibliotheken, ein untragberer Zustand.

Es ware schon, wenn Sie nach Abschluss Ihrer Arbeiten am Worterbuche einmel das gesamte Ihnen bekannte Na-khi-Material über Mian-114-ddu-ndzi zusammenstellen u.veröffentlichen könnten. Sicher würde viel aufgehellt werden. Zu Ihrem Wörterbuch gratuliere ich Ihnen und ich freue mich mit Ihnen riesig

Was nun Dr. Chandras Arbeiten angeht, so hat er mir über sein Wörterbuch geschrieben. Das helte ich allerdings für eine bedeutende Leistung. Nur kann ich es für meine Verhältnisse nicht erwerben. Leider schrieb er mir nichts über seine Ausgabe des dPag-bsem, des zu erwerben ich grosse Lust hätte, ohne jedoch zu wissen, wie des zu realisteren ware nicol

LAZ Clundy 13. Februar soul lich an der Fechnischen Hoesschule 11 Accher On zwei Vorlesungen über Probleme der tibetischen Architektur halten. Wenn Sie da zufällig in der Nähe sein könnten, wäre das ja wunderbar!

Grüssen Sie, bitte, Herrn Prof. Tucci schön von mir. Erschrieb mir kurzlich such. Ich verdanke ihm sehr viel!

Lassen Sie sich selbst auf das herzlichste grüssen mit allen guten wünsche

von Ihrem ergebenen

3915 South Clarkson St Englewood, Colorado Feb. 4, 1959.

Dr. Joseph F. Rock, Honolulu, Hawaii.

Dear Dr. Rock: -

I am very sorry that I sent you the book on primates instead of my book on the Customs and Rleigion of the Chiang. I ordered and paid for five extra copies of my book, and the Smithsonian secretaries made the mistake of sending me the books on primates, five copies. I did not notice the mistake until I had sent our two copies. The size and binding on the book about primates is the same as on my book.

Digitized by Hunt Institute of main pound copy Decementation on the Chiang, and be sure to let me know if you fail

to receive it. I certainly want you to have a copy. Thank you very much for sending me a copy of your book.

I took down vocabularies of the Ch'iang in several localities, about eight. Then I included several pages of the vocabularies in my manuscript. But the Smithsonian requested me to find \$3500.00 to get it published, and I could not find that much, so I greatly abbreviated, and one way was to omit the vocabularies. The road to publication of ethnological materials in U. S. A. is not easy.

With many thanks and best wishes, I am

Very sincerely yours, David C. Graham

BERNICE P. BISHOP MUSEUM HONOLULU 17, HAWAII

February 18, 1959

Dr. Joseph F. Rock c/o A. Lester Marks 3860 Old Pali Road Honolulu 17, Hawaii

Dear Dr. Rock:

It is a pleasure to inform you that the Trustees of this
Museum have reappointed you Honorary Associate in

Digitized by Hauth In Stitute for Botanical Documentation

We should greatly appreciate your acceptance of this appointment by your signing and returning the enclosed carbon. Also, we should be happy to receive any comments you wish to make regarding your activities during the past year, as well as suggestions or recommendations concerning the Bishop Museum.

Sincerely yours,

Alexada Sport

Alexander Spoehr Director

enc.





To: Dr.J.F. Rock,

P.O.Box 497,

Honolulu 9(.T.N.)

Digitized by Hunt Institute for Botanical Documentation

J21A 22 Hauz Khas Enclave

P. O. Yusuf Serai, NEW DELHI-16,

March 4, 1959.

My dear Dr. Rock.

Airmail.

The Dpag bsam-ljon-bzang part III will be sent to you as soon as it is published.

The Tibetan-Sanskrit Dictionary will appear in about 20 volum.

The Various volumes will be sent as they appear. You can pay as you go on receiving them.

With best wishes,

Yours very sincerely,

Digitized by Hunt Institute for Botanical Documentation

Dr. J. F. Rock, P. O. Box 497 Honolulu (E. T.N.)



TERRITORY OF HAWAII

BOARD OF COMMISSIONERS OF AGRICULTURE AND FORESTRY

HILO, T. H.

March 4, 1959

Dr. Joseph F. Rock c/o P. O. Box 497 Honolulu, T. H.

Dear Pohaku:

On March 27, 1949, we received a quantity of Rhododendron seed with the information that it was collected in Yunnan near the Tibet border by J. F. Rock. A few of these lots of seed germinated and one collector's No. 185, our No. 9062, has just come into flower.

We have six plants growing at Keanakolu and yesterday I was pleased

To see one had produced a flower head with several more buds remaining to open. The flower is quite attractive about two inches by two inches, whitish in color, with pink edge to the petals and darker pink spots scattered down into the throat. There were fifteen of these flowers to the spike which I saw. I know that you will be interested to learn that this particular variety has flowered in Hawaii.

I am still watching the seed pods on the <u>Rauhinia cumingiana</u>. There are seven pods but they are still green.

Very truly yours,

L. W. Bryan Associate Forester

LWB/km

COLONY OF NORTH BORNEO

It is requested that the following number be quoted in the reply to this letter.

OFFICE OF

Co-operative Department, JESSELTON, British North Borneo.

Ref:

Dear Dr. Rock,

paper cutting about Mt. Kinabalu. Ki in Dusun means Abode and Nabalu is the name of the God which sats there on top. I hope the letter will get you before you fly to Europe on the 21st.

I am going to Kuching on the 26th to spend Easter holidays with Austin Coates and Desmond Neill and, of course, a few children.

I had received some page proofs in the half the

My contract is being extended till July 5th. It means I must fly to Singapore on July 5th and on the 8th to Geneve. I could meet you there and we could go down to Digne to call on Mme David Neel, or to Chamonix which is lovely.

Please let me know your address when you arrive in Europe and I will keep in touch with you.

I am still in Tenom, Interior Residency, then I go to Keningau on the 11th and we shall work in Ansip and Apin Apin for a few days. I am returning to Jesselton on the 24th and then on to Kuching till the 30th. On the 2nd I am sailing per ss. "Kimanis" for Kudat, one week there, and then on to Sandakan for six weeks or so.

April I wish you a very happy Easter.

Yours affectionately,

P. Conclot

P.S. Alice Chow is in London and her address is 2 Park Walk, Chelsea, London S.W.10

She and her son would be very happy to see you again. Digitized by Hunt Institute for Botanical Documentation

813 ROCK DR J F 10.50 HOTEL VANCOUVER

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We trust that your stay has been a pleasant one and that we will again have the pleasure of serving you.

LAST BALANCE IS AMOUNT DUE UNLESS OTHERWISE INDICATED

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Digitized by Geterwent seither for the other dela Discourted by Hoffentlich gelingtes mir, über das Ministerium

> Freund, Herrn Prof. Dr. Alfred Steinmann, der sehr krank ist und mir Sorgen macht. Es kann sein, dass aber im Museum wird man wissen, wo er ist.

Stets Ihr etwa etwas mit meiner Vergengenheit

Singbar Mount

Herrn Dr. Josef R o c k
c/o American Express
R O M A

Lieber Doktor Rock!

In dem Begleitbrief wären folgende Punkte hervorzuheben:

1) Die österreichische Regierung und die Österr. Akademie der Wissenschaften sind nicht in der Lage, das weitgespannte Projekt zu

finanzieren, ebensowenig die betreffenden Länder selbst.

Jährlich werden von internationalen Körperschaften, wie UNESCO, FAO etc., gewaltige Beträge für Projekte verschwendet, die in irgendeiner Hinsicht mit der Pflanzenwelt der unterentwickelten Länder des Ostens zusammenhängen. Der Erfolg bleibt so lange beschränkt, als kein einziges modernes wissenschaftliches Werk besteht, das den gesamten Bestand an wildwachsenden Pflanzen dieser Länder nach einheitlichen Gesichtspunkten in übersichtlicher Form behandelt und das Bestimmen jeder einzelnen Art ermöglicht. Es handelt sich hier um ein spunglisches Projekt von

Digitize verm behandelt und das Bestimmen jeder einzelnen Art ermöglicht. Es handelt sich hier mein grundlussendes Projekt von

3) Seit Jahren kommt alles Pflanzenmaterial aus den betreffenden
Ländern zu mir zur Bearbeitung; teils direkt, teils über das
U.S. National Herbarium Washington, über die Plant Industry
Station, Beltville, Ma., über das British Museum London, ohne
daß es mir möglich wäre, neben meinen Amts- und Lehrverpflichtungen diese Arbeiten zu bewältigen.

4) Wenn nicht eine Toundation für alle drei Projekte aufkommen kenn.

4) Wenn nicht eine Foundation für alle drei Projekte aufkommen kann, so wäre eventuell die Aufteilung des Programmes zu erwägen, und zwar, indem man jeweils eine Foundation für eines der Teilprojekte interessierte.

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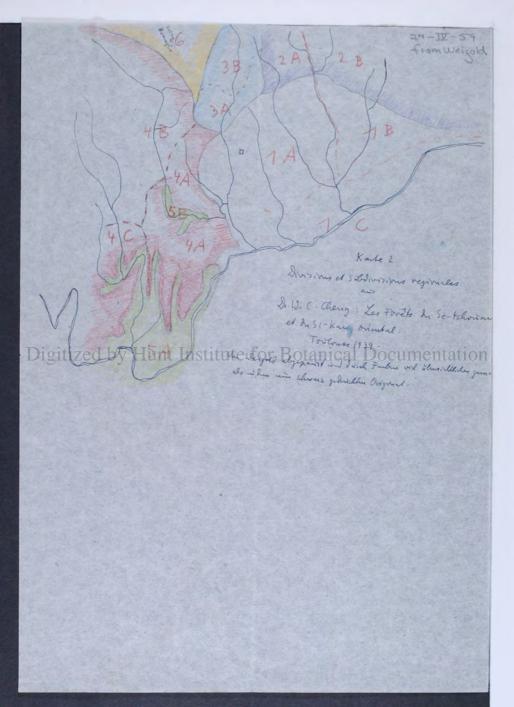
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The Beginning Five Decades of Forestry in Hawaii

Ralph Sheldon Hosmer

Since the Territory of Hawaii became "an integral part of the United States," by annexation in August 1900, forestry has played a vital role in that group of islands in the North Pacific. But just as the eight inhabited islands of the Territory occupy a unique geographic place in the "Sisterhood of the States," so in Hawaii has wise forest management differed in essential ways from forms of forestry practice usual on the Main-

In word, in Hawaii the most valuable product of the forest is water, rather than wood. It follows that conservation of its watersheds by keeping them permanently elothed with protection forests, is there the chief duty of the forester.

Today, watershed management has come to be recognized as one of the major multiple uses of forests. This was not true in 1903. To Hawaii belongs the credit of being the first State or Territory to inaugurate as an official policy such a conservation measure. That policy was accepted and over the years has been given consistent support by the Territorial Legislature. For half a century it has been looked upon as an essential part of the "Law of the Land."

Because the significance of this action seems not generally to be realized on the Mainland, and also because there is much that is of interest in the development of the



RALPH S. HOSMER

project itself, it is felt desirable that a firsthand historical account of this incident, by one of the foresters who was active in its early stages, should be on record in the JOURNAL OF FORESTRY. It covers the years from January 1904 to June 1955, divided into three parts; the periods of the respective administrations of the first three Territorial Foresters: Ralph Sheldon Hosmer, Charles Sheldon Judd, and William Crosby. In this way the more important forestry developments in the Territory can be noted in chronological order.

First, a few basic facts as to the Hawaiian Islands. The location is 2,100 miles southwest of California. They lie just south of the Tropic of Cancer. Consequently the climate is sub-tropical as is, in consequence, the indigenous flora.

The islands are volcanic in origin and mountainous in character. The higher peaks rise to elevations of just under 14,000 feet on the largest island, Hawaii; of 10,000 feet on Maui; and of 4,000 and 5,000 feet on Oahu and on Kanai.

As a further bit of background it may be said that "the land surface of the eight main Hawaiian Islands aggregates a little under 6.500 square miles, or in round numbers, a little over 4,000,000 acres." For comparison, the combined area of the states of Connecticut and Rhode Island is 6.213.

square miles. Documentation
The Territory is blessed with

plentiful and, as to the seasons, evenly distributed rainfall, in that the eight main islands lie within the northeast trade-wind belt with its moisture laden clouds. On the steep, forested slopes on the windward sides of the mountains, from sea level up to approximately 6,000 feet elevation, the precipitation is heavy, amounting in many localities to more than 400 inches per annum. But also to be remembered is the fact that the upper slopes of the high mountains shut off the trade-wind rains from their leeward sides. In such areas the precipitation may be scant and irregular; in places as low as 10 inches a year.

From the agricultural and economic standpoint, however, some of the most fertile lands are those on the dry, warm, sheltered lee sides of the five larger islands, provided they can receive adequate supplies of water through irrigation.

Here is where the role of forestry comes in. Protection forests

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areas, reduce to a considerable extent the excess run off from watersheds, and in partnership with irrigation enterprises help to safewater essential for the domestic supplies of the several islands and also for the amounts needed for economic use. As Judd once summed it up, back in 1931: "The practical work of Forestry in Hawaii consists in clothing the watersheds with the best possible association of trees, plants, and other vegetation, for holding back the ex--ecssive run off."

The chief industry of Hawaii is the growing, manufacture and marketing of cane sugar. More than half of the lands cultivated for sugar cane are irrigated. All possible sources of water are being utilized by the sugar industry: streams, springs, wells-both flowing and artesian-and tunnels into mountain sides to intercept ground water channels in the volcanic rocks. Digiti Priar to 1926 over \$19,000,000 is S the plantations in irrigation equipment alone." New projects are constantly being added. In 1958 an elaborate one was in progress to tap streams on the windward side of Molokai to bring water through tunnels to irrigate lands to leeward.

Support from Industry

of the Territory is the Hawaiian Sugar Planters Association. Set up in its present form in 1895, it acts for the affiliated plantations through close knit inter-organization. One of its features is the H.S.P.A. Experiment Station, for "the maintenance, advancement, improvement and protection of sugar in Hawaii." Its staff is made up of specialists in various branches of science, supported entirely by the funds of the plantations.

It was therefore no mere flash in the pan when in the session for 1903 of the Legislature of Hawaii, a bill was introduced, at the instance of the Sugar Planters, to set up a Territorial Board of Commissioners of Agriculture and Forestry as one of its specific divisions, forest reserves, "more particularly for protecting and developing the springs, streams, and sources of

The bill called for the employment of a professional forester to head the Division of Forestry. Such a requirement was in that year, 1903, in effect in only three mainland states: New York, 1900, Penn-

The bill was signed by Governor as Act 44 of that legislative session.

Organization

At once after the organization president, Hon. Lorrin A. Thursing public men of Hawaii, wrote to Gifford Pinchot, then head of the Bureau of Forestry, U. S. Department of Agriculture, requesting his advice. Mr. Pinchot sent William La Hall to the Islands for a firsthand study of conditions. His report was published as Bulletin 48 of the Bureau of Forestry, U. S. Department of Agriculture, 1904, "The Forests of the Hawaiian Is-

On recommendation of Mr. Pinchot, Ralph Sheldon Hosmer, M.F., 1902, Yale, then chief of the Section of Forest Replacement of the Bureau, was appointed by the Board as "Superintendent of Forestry" of the Territory of Hawaii, effective December 15, 1903. He reported for duty in Honolulu on January 13, 1904. The title was changed later to "Territorial Forester." During the ten and a half years he served Hawaii, Hosmer also held the post of collaborator in the U. S. Forest Service by appointment of Gifford Pinchot, This position kept the Hawaiian Division of Forestry in close touch with the Forest Service. It also permitted the use of federal equip-

The second Territorial forester of Hawaii was Charles Sheldon until his untimely death on June 29, 1939. Judd was born in Honolulu on July 11, 1881, a grandson of Dr. G. P. Judd, a medical missionary to Hawaii in 1827. The since. "Charlie" was graduated from Yale, A.B., 1905, M.F., 1907. He was first with the Forest Service in Region 6. In 1911 and 1912 he acted for a time as commissioner be assistant regional forester. Region 6, until 1915.

The third Territorial forester was William Crosby, who succeedfrom Yale University the B.S. degree, Sheff., 1911, and the M.F. in 1913. After a number of years service with the Philippine Bureau of Forestry, he was in the U. S. Forest Service on the Mainland, and then with the Tropical Plant Research Foundation. From 1927 to 1939 he was in charge of the forestry work on the Island of Maui, as associate forester. He organized the program of the Civilian Conservation Corps in Hawaii, and carried that work forward to its completion. Crosby was officially retired on June 30, 1952, but in 1953 was recalled to the office to serve again until June 30, 1955.

The Field of Work

In general it may be said that four main purposes, all inter-re-

The forest reserve system .- The creation and effective maintenance, as "protection forests," of an organic system of forest reserves on the catchment areas of the five main islands, with water as the

Forest planting .- 1. In the forest reserves, (a) with local species, (b) with exotic species.

2. Experimentation with, and subsequent planting of species of trees which have economic value for lumber and/or other uses. Many of these are from other subtropical parts of the world; a considerable number from Australia and New



CHARLES S. JUDD

3. Trial of species of coniferous trees from the temperate zone, generally at elevations of from 6,000 to 11,000 feet, above the tradewind belt, especially on the higher mountains on the islands of Mani and Chavan.

Notes on such plantings follow, in the accounts of the administrations of the three Territorial foresters whose periods of service are covered in this statement.

Forest fire prevention .- Hawaii is fortunate in having relatively low forest fire hazard. But the aim of the Division of Forestry has always been to be prepared. In this. its forest fire warden organization has one distinctive feature. The fifty-odd positions of local fire wardens are held by sugar plantation managers, or by ranch managers, who serve voluntarily. As these men have laborers constantly at command, forest fire calls are speedily and efficiently handled. On the island of Oahu the U. S. Army has given aid on many occa-

Public relations.—To keep the public informed of its work has always been a function of the Hawaiian Division of Forestry. From January 1904 to March 1933, the Board published a monthly magazine, The Hawaiian Forester and Agriculturist, in which appeared

reports from the Territorial forester, in addition to timely articles on various phases of forestry and of conservation.

There also are to be found the reports and proclamations concerning the forest reserves. Biennial reports recorded the activities of the several divisions of the Board. In many cases these volumes were illustrated.

From an organization standpoint the watershed conservation program, authorized by Act 44 of 1903, narrowed down to a series of very definite objectives, each closely knit with all the rest. Some needed to precede others. Because of this, each of the first three Territorial foresters found specific duties awaiting him, and so was personally responsible for bringing certain parts of the program into complete working order.

The First Decade: 1904-1914

Under Ralph S. Hosmer, the first step was, obviously, to undertake the legal organization of the forest reserve system. This was given a fortunate start when Governor George R. Carter invited Hosmer. with other territorial officials, to accompany him on a five weeks trip to the "Big Island," Hawaii, in January and February, 1904. Later Hosmer made similar trips with Governor Carter to the islands of Maui and Kauai. These circuits afforded unequalled opportunities to see much terrain under favorable circumstances, and along the way to meet almost all the sugar plantation managers and ranch managers, with whom later he had much to do.

A procedure as to the creation of forest reserves was soon worked out including field examinations by the forester, and full discussion on the ground with all concerned. Then a boundary line was drawn, regardless of ownership; for both government and privately owned lands were included. As the majority of the latter were controlled by sugar interests, the owners were usually in favor of the objectives sought. So far as practicable the boundary lines followed natural



WILLIAM CROSBY

boundaries, to reduce the cost of fencing.

Public hearings were duly called

and held. If no serious objections arose, the Governor then issued a proclamation setting, apart as, a forest reserve the included lands that belonged to the Territory. The proclamation became effective on publication. Each carried a metes and bounds description of the boundaries, based on a survey by the Territorial survey office. Act 44 of 1903 provided that private lands could be turned over to the Division of Forestry for management, with a reduction of taxes.

The first reserve was set apart on November 10, 1904, on the Island of Oahu, 913 acres, all land belonging to the Territory. The creation of forest reserves continued to be Hosmer's primary duty as superintendent of forestry. When he resigned in August 1914 to return to the Mainland, the total area of the then 37 forest reserves, was 798,214 acres, of which 546,222 acres (68 percent) belonged to the Territory.

The fencing of the boundaries of the forest reserves to keep out domestic stock and the employment of forest rangers to protect those areas and of hunters to kill off the wild cattle, sheep, goats and pigs, was from the start a definite part of the program. The real development of this service, under larger appropriations, stands to the eredit of Charles S. Judd.

The second main line of work of the Division of Forestry, in the earlier years, was the kind of tree planting noted above, under 2-experiments with trees of value for lumber and other uses. In that no conifers are found among the inence for practically all the heavy construction timbers used in the Territory is still placed, even to today, on redwood and Douglas-fir imported from California and the Pacific Northwest. The need for a local lumber supply continues urgent.

To provide for minor timber needs on the plantations and the ranches, as for posts, ties, bridge timbers, etc., trees from some other subtropical countries have proved satisfactory, especially certain eucalypts from Australia. In 1904 the government nursery, in-Digitistead of growing ornamental, flow-ering trees, was set to producing such timber tree species for sale and distribution. With this went a campaign to aid and cooperate with the sugar plantation companies in tree planting on non-agricultural lands, or on gulch sides, or other waste areas.

> In direct charge of the propagating work was David Mitchell Haughs, forest nurseryman, a Scot from Glasgow, who rendered notable service to the people of Hawaii, from 1893 to his retirement in 1929. There was no question that "Davy" had a green thumb. A large part of his work was to experiment with species new to Hawaii, to determine their value for use under varying conditions and at different elevations.

> A contribution by the U. S. Forest Service to the experimental tree planting work was the detail from Region 5, California, for three months in 1910 of Louis Margolin to make a study of "Eucalyptus Culture in Hawaii." This was published as Bulletin 1 of the Division of Forestry in 1911.

Another Forest Service grant-in-

aid in 1911, made at Hosmer's request, was to test the possibility of growing certain coniferous timber fornia on the upper slopes of Maui, and on Mauna Loa (13,675 feet) and Mauna Kea (13,825 feet) on Hawaii, between the elevations of 7,000 and 11,000 feet, above the belt of trade-wind rains. These plantings were made in cooperation with two of the largest cattle ranches in the Territory, Counts and measurements made twelve years later, by C. S. Judd and C. J. Kraebel showed that enough individual trees had come through, and grown, and were producing fertile offspring, to justify the experiment. The tests were thereupon continued and enlarged.

Only a very few indigenous trees have commercial value, except locally for cabinet work or veneer wood, Koa (Acacia koa) is best known. Most other native trees are primarily of botanical interest, exdept those that make up the rain forests. Of these onia lehua (Metrosideros polymorpha) is the most important. But in this connection mention may be made that Dr. Joseph F. Rock was, from 1908 to 1911, a member of the Division of Forestry staff as consulting botanist. He was transferred to the University of Hawaii, from 1911 to 1919, prior to his notable botanical explorations of China and Tibet. In 1913 was published in Honolulu, by patronage, his richly illustrated book The Indigenous Trees

In May 1908 forester Hosmer was invited by Governor Walter F. Frear to accompany him, as one of his conferees, to the Conference of the Governors called by President Theodore Roosevelt at the White House. Upon their return, Governor Frear appointed Hosmer mission of Hawaii. In March 1909 the Governor and members of that Commission appeared before the Legislature of Hawaii to discuss conservation in its relation to the Territory. Bulletins carried the speeches, in English and in Ha-

estry has always had the support of favorable public opinion. Three earlier presidents of the Board Lorrin A. Thurston, Walter M. Giffard and Colin G. Lennoxstand out as having undertaken. personally, to make special studies of forest management for water conservation in Hawaii for presentation in biennial reports.

From 1915 to 1939. Under Charles S. Judd

The particular accomplishments plete the legal organization of the forest reserve system; second, to secure the efficient fencing of a large percentage of the forest reserve boundaries, and by means of cattle drives and by hunters, to go a long way toward ridding all the reserves of wild stock. Third-and his major professional contribution -was, by extensive plantings, to bring the forest reserve areas on the watersheds into their full status as true protection forests of an approved rain forest type. It was to this last task that he gave the later years of his life.

When in 1931 the aggregate total area of the forest reserves reached 1,021,314 acres, Judd was happy to announce, in an article in the JOURNAL OF FORESTRY (Vol. 29. No. 3, p. 363): "This amounts to almost exactly 25 percent of the total land area of the Territory. and is considered none too much to assure the growing population of a continuous and efficient water

As to the progress of forestry in the Territory he then said: "Since the inception of forest work in Hawaii, the force to carry on field operations has gradually been built up, with appropriations made by a favorably inclined legislature, until now the Territorial Forester has four trained assistant foresters -one on each of the four main islands; eighteen forest rangers; 29 workers in the four tree nurseries; and 35 tree planters." (Later the title Assistant was

changed to "Associate Forester.")

Further contributions by C. S. Judd .- Judd often used novel ways to get things done. One, in 1926. was to sow tree seeds from an airplane on extremely rough "aa" lava flows on the island of Hawaii which had been burned over. About 700 pounds of seed were so distributed. On an earlier occasion Army airplanes had dropped tree seed on denuded mountain slopes on the island of Oahu, at his request.

lished in Hawaii in 1920 Judd was quick to cooperate with the park officials. He was a regular contributor to the JOURNAL OF FORESTRY and spoke frequently before local associations on subjects that had to do with forestry and with con-

During the 1920's Judd, assisted some of the time by Charles J. Kraebel, offered courses in the elements of forestry at the University of Hawaii. These were intended for men who might consider field employment in the Divi-1 Sion of Porestry. In his later years Judd led a movement further to safeguard the Honolulu watershed on Oahu through the acquisition by the Territory of the private lands in that forest reserve. With increasing population this continues to be a present day problem.

In the 1920's Charles J. Kraebel (Michigan) and T. C. Zschokke (Yale) served, in turn, as assistant superintendent of forestry. Max F. Landgraf, now associate forester for Oahu, started as a ranger in 1924. Walter W. Holt (University of Hawaii) was named to succeed David Haughs as forest nurseryman on the former's retirement in 1929. Holt followed Crosby, on Maui, in 1939.

Charles S. Judd died in Honolulu, June 29, 1939.

Reforestation of the Forest Reserves

The restoration of a rain-forest type of vegetative cover on the watershed reserves presented serious difficulties. So much of the original endemic rain-forest had been incurably injured or totally



WALTER W. HOLT

destroyed by decades of grazing that the problem had become, in many localities, one of replacing the former cover by a new botanical association of trees, undergrowth, and surface plants able to function in a way similar to that of the old forest. Many exotic plants, new to the Territory, were demanded. To secure and bring these to Hawaii, and to establish then, required botanists as well as

Once more the Hawaiian Sugar Planters Association came into the picture. Through the years the planters have often benefitted by using specialists for the solution of comparable emergencies. This time the Planters Association authorized its experiment station to cooperate with the Territorial Board of Agriculture and Forestry by setting up a "Department of Botany and Forestry," under its forest pathologist, Dr. Harold Lloyd Lyon, with a staff of botanists, for a 20-odd year period, from 1918 to about 1940. These men introduced, germinated, propagated, and tested thousands of species of plants of the needed sorts at special nurseries and in trial areas until sufficient material was provided and made ready for the permanent

intimate cooperation was mainhis territorial staff, and botanist Lyon and his men. The resulting program led to marvelous team play in the actual reforestation of the forest reserves.

So firm was the belief of the Sugar Planters Association in this conservation undertaking that the entire cost of the Department of Botany was borne from the funds of the H.S.P.A. Experiment Station. This shows, as nothing else could, the integration of the sugar industry with the economic life of the Territory of Hawaii.

Two botanists who worked with Dr. Lyon were Lester W. Bryan, on Hawaii, and Albert W. Duvel. on Kauai. Both later became associate foresters for the Territory. Since 1922 Mr. Bryan has been resident on the Island of Hawaii, keeping close track of all forestry introductions, including commercial timber tree species, as well as plant material primarily of value for watershed planting. His invaluable records and conclusions are given in his brochure "Twenty Five Years of Forestry Work on the Island of Hawaii," (reprinted from The Hawaiian Planters' Record, Vol. 51, No. 1, 1947.) That reprint also carries a 3-page summary by Dr. Harold L. Lyon: "Facts of Great Importance." This likewise is significant. More about the general program is to be found in Dr. Lyon's article, "Ten Years in Hawaiian Forestry," (Planters' Record, Vol. 33, No. 1, 1929.)

From 1939 to 1955, Under William Crosby

From working a dozen years with Judd on some of the most difficult phases of the forest problems of Hawaii, Crosby was in good position to take over and carry on the broad forest policies of the Territory. In connection with the forest reserves he continued the standardized practices of keeping the boundary fences in order, of constructing roads and trails, and of expanding the forest planting work when appropriations were available. Until 1941 he had the advantage in each of these activities of the C.C.C.

It is said in the 1952 report of

the Board that "the Civilian Conservation Corps accomplished a reforestation program in eight years that would have been equivalent to forty years of work under normal Territorial appropriations." Similar statements were true on the Mainland, but in Hawaii the time at which this aid came was peculiarly apt, for much of the C.C.C. work was in restoring "rain forest" cover.

With the end of the C.C.C. in 1941, and the coming of World War II, the Board was obliged to discontinue most of the forest cover planting in the watershed reserves. Certain statistics are available in the Board's biennial reports but here this subject may well terminate with this note from a letter to the writer from Ex-Territorial Forester William Crosby, written in August 1958: "Our C.C.C. operations (1933 to 1941) covered a very large portion of the important watershed areas on the sain intend."

Digit in addition to the watershed Crosby was sympathetic to and interested in the experimental planting of timber tree species on other lands, particularly of conifers at considerable altitudes on the high mountains. One example, between 6,000 and 7,000 feet, in the Kula Forest Reserve on Maui, is a plantation of the coast redwood from California, started from seed in 1932 by Judd. Twenty years later this stand, grown under Crosby's care, had trees 60 feet tall and up to 30 inches in diameter. Other plantations of redwoods are also growing well on the Kona Coast on Hawaii, on Bishop Estate lands, where the subsurface is so porous that there are no running streams.

Like his predecessors, Crosby exercised administrative jurisdiction over the forest reserves, including recommendations which led to additions or reductions in area, or changes in the location of boundaries. To show what the essential figures were after almost half a century, the aggregate area of all forest reserves in 1952 was 1,065, 194 acres, of which 65 percent was

owned by the Territory in the 64 reserves.

Crosby brought the task of ridding the reserves of wild stock to a point where the number remaining had been reduced to the natural yearly increase, which can be controlled by local sportsmen's clubs under hunting licenses.

One of his last reports to the Board, made in 1954, contains a clear restatement of the principles on which the forest reserve system had been handled steadily for 50 years.

Upon his final retirement on June 30, 1955, Crosby was succeeded by Walter W. Holt, as territorial forester. Holt in turn was followed as associate forester on the Island of Mani by Karl H. Korte. Both men continued to hold these positions in 1957, as did also the other three associate foresters: Max F. Landgraf, Oahu; Lester W. Bryan, Hawaii; and A. W. Duvel, Kanai. Also in that year, Albert J. MacDonald, Thomas R. Li McGnire, and Tom E. Pagaware listed as foresters on Oahu.

William Crosby continues to maintain his home in Honolulu.

A Postscript

The more important historical facts as seen by an old timer are here set forth. The task is completed but the story as a whole must go on, for forestry is essential to Hawaii, be it a Territory, or a State.

Now, because there have been other new happenings during the past three years—1956 to 1958—this writer cannot refrain from adding a brief note, as of today, just to call attention to them.

On July 16, 1956, Mr. C. Eric Reppun became president of the Hawaiian Board of Agriculture and Forestry. In the annual report for the fiscal year July 1, 1956 to June 30, 1957 (pp. 90-91) is the statement: "Realizing the need for a more positive, progressive and realistic forestry program in the Territory in order to assure greater future utilization of our forest potential, and at the same time more adequately to safeguard

our critically important watersheds, the Board, in November of 1956, initiated extensive negotiations with the U. S. Department of Agriculture Forest Service to seek further Federal assistance."

This was particularly in the way of a request for a Forest Service research center for Hawaii, with a program to include research in a forest inventory, in forest management, in timber utilization, and in watershed management.

Personal conferences by President Reppun, in September 1957, with officials of the Forest Service in Washington, D. C., at the Forest Products Laboratory in Madison, Wisconsin, at the Headquarters of Region 5 in San Francisco, and at the California Forest and Range Experiment Station in Berkeley, California, led to assurances of support.

As one result, Eugene V. Russell, chief, Division of Economics of the California Forest and Range Experiment Station was given an initial assignment to visit Hawaii 11011 to start a forest survey. This he did in January and February 1957. His report, in April 1957, recommended the establishment of a Forest Service research center and a research program for Hawaii, A subsequent step was the shipment of the first lot of logs of Hawaiian grown timber species to the Forest Products Laboratory at Madison for testing, in October 1957.

In addition to these federal contacts a Territorial grant was secured in September 1956, from the Economic Planning and Coordination Authority of the Territory, to permit Lester W. Bryan, associate territorial forester for the Island of Hawaii, with an official companion, Mr. Myron L. Wold, to make an investigational tour that autumn to Australia and New Zealand, to observe, in their native localities, species of eucalyptus trees which have been introduced into Hawaii during the past 70 years and are now extensively planted, especially on the Island of Hawaii. As this comes under the Board's new project "Exploitation of Hawaii's Timber Resources," it timbering techniques that have proved most efficient in those countries. A 100 page illustrated report, prepared by Bryan and Wold. Agriculture and Forestry in Janu-

During the summer of 1958 other Forest Service men were in Hawaii. First John R. McGuire, head of the forest economies research division at the California Forest and Range Experiment Station, was on a mission to start a five-year Territorial timber survey. Then, also from the California Station, Robert E. Nelson was assigned to head the survey. A forester from the Territorial staff. Tom K. Tagawa, will work with

From these items it is evident that forestry in Hawaii is expanding in a variety of directions. It will be appropriate if these new developments coincide with the coming of Statehood to Hawaii.

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Adr. tél. Fribourgotel

FRIBOURG (SUISSE)

Appl. No. 63 M. E. D

Tél. (037) 2 25 22 NOTE pour Monsieur le Mois Man Fr. Ct. Fr. Ct. Ct. Appart.av.pt.déjeûn. Chauffage Petit déjeûner Quittung für Quittance pour Digithezed imentation Boisso Blanchiss, Repassage Bains Téléphone Total du jour . 16.70 Report Total . . Paiement . Service Taxe de séjour Total général

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Mein libr Dr. Kock!

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es fortish unis bischeidene Untukningt. In de Seven poti-Aigust ist his wins alles risklich voll, man kann wicht obne Weisteres überell freie Einemer erwachen. Ich was work wicht sellet auf dem Schachen, will ich mich mit meinen ehres augeknacht sten Aerzhauz adem wicht methr auf Rischsack schleppen einlassen kann. Abre unt Thuen zwamme wärdt ich es riskieren, mir wijsdu ja wohl ernen Birrochen zum Tragne freden.

gamush erreihe ih om his and menen Wague in 2 Shiredus chora. Von Somush and st in österreihoshe D. Shweizer frenze ganz wahe.

Daß er Ihnen glang, Her news Nokhi-Work for 22 580 det zuhnicht

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graphie. Sike halm Si Recht, wim Si Schreiben, Jap er ganz ohne Britishlying der Taler wicht geht.

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Warrin fordshu Sn immer Krieg? Kleine Lord kommen sich jeht woch Kriege leichen, als di "Abru- Mädde" wicht wehr; und Rufland woch USA.

Ich bein bloß neugierig, warm entlich di Russen erkennen winden, Dep Sie dru großten Febler wachen, als sie Clana auf hi Beine stellhu, Dep sie und eine Interessungmuch.

Shaft unt d. "Pring Well" gegen Clana braichen.

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HOTEL EUROPA	Portierudlæg	Værelse nr. 712
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Mr. Joseph Rock No 8493 AM. Mr. Joseph Rock 7842 USA HOTEL HOTEL USA RTROPA 18/5 VAR. NR 712 18/5 VAR. NR. 712 PERS. 1 TELEFON: MI 6868* TELEX 5700 TELEGRAM-ADRESSE: TELEFON: MI 6868* TELEX 5700 TELEGRAM-ADRESSE. EUROPAHOTEL EUROPAHOTEL DATO TEKST BELØB SALDO DATO TEKST BELØB LOCIS 18MAJ59 S * *46.00 18NAJ59 SERVICE * **6.90 21MJ59 H * **0,75 ** 260.00 DIVERSE 18NAJ59 H * **0.75 ** *53.65 19MAJ59 G * **4.50 K * ** 265.20 ALCARTE 19MAJ59 * **2.00 22NAJ59 - BETALT K * 215.20 ** *50.00 19NAJ59 SERVICE * **1.00 ** *61.15 19NAJ59 LOGIS * *46.00 19MJ59 * **6.90 19MJ59 H * 4+0.75 ** 114.80 K * **4.50 Documentation - * **2.00 20NJ59 - * ±+1.00 ** 122.30 20MJ59 A * #20.90 ** 143.20 PORTIER 20NAJ59 LOGIS A * *46.00 20NAJ59 - * **6.90 20NAJ59 H + 4+0175 0+ 196.85 21 MJ59 * **4.50 21NAJ59 - * **2.00 21 NAJ59 - * **0.90 21 MJ59 - *: ++0.20 ** 204.35 KAFFETE 21NAJ59 × **1.75 21NAJ59 * ***0.25 ** 206.35 21 MJ59 K * *46.00 WAJ59 - * **6.90 ** 259.25 Betjening 15 % Hotelkarlen indbefattet. Service 15 % Porteur compris. Betjening 15 % Hotelkarlen indbefattet. Service 15 % Porteur compris.

Service 15 % Luggage-porter included. Bedienung 15 % Hausdiener einbegriffen

Service 15 % Luggage-porter included. Bedlesung 15 % Hausdiener einbegriffen

LOGIS	Værelse	Room	Chambre	Zimmer
SERVICE	Betjening	Service	Service	Bedienung
COMPL'	Complet	Breakfast Complet	Complet	Frühstück
A LA CARTE	Måltider	Moals	Ropas	à la carte
KAFFE TE	Kaffe el. The	Coffee/tea	Café/Thé	Kaffee/Tee
VIN	Vin	Wine	Vin	Weine
SPIRITUS	Spiritus	Alcohol	Alcool	Spirituosen
BEER	ØI	Boor	Bière	Bier
VANDIZ (evand b	Mineral water	Eaux minérales	Mineralwassetute fo
PORTIER	Portier	Hall-parter	Concierge	Portier
REST'R	Restaurant	Restaurant	Restaurant	Restaurant
DIVERSE H.	Hotelkarl	Luggage porter	Valet	Hausdiener
DIVERSE G.	Garage	Garage	Garage	Garage
SANDWICH	Smørrebrød	Sandwich	Sandwich	Butterbrot
KAGER	Kager	Pastries	Pâtisserie	Kuchen
CORRECT	Rettelse	Correction	Correction	Korrektion
BETALT	Betalt	Cash	Payé	Bezahlt

LOGIS	Værelse	Room	Chambre	Zimmer
SERVICE	Betjening	Service	Service	Bedienung
COMPL'	Complet	Breakfast Complet	Complet	Frühstück
A LA CARTE	Måltider	Meals	Repas	à la carte
KAFFE TE	Kaffe el. The	Coffee/tea	Café/Thé	Kaffee/Tee
VIN	Vin	Wine	Vin	Weine
SPIRITUS	Spiritus	Alcohol	Alcool	Spirituosen
BEER	ØI	Beer	Bière	Bior
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PORTIER	Portier	Hall-porter	Concierge	Portier
REST'R	Restaurant	Restaurant	Restaurant	Restaurant
DIVERSE H.	Hotelkarl	Luggage porter	Valet	Hausdiener
DIVERSE G.	Garage	Garage	Garage	Garage
SANDWICH	Smørrebrød	Sandwich	Sandwich	Butterbrot
KAGER	Kager	Pastries	Pâtisserie	Kuchen
CORRECT	Rottelso	Correction	Correction	Korrektion
BETALT	Betalt	Cash	Payé	Bezahlt



CumberLand Hotel Marble Arch London, W.T.



CumberSand Hotel Marble Arch London, W.I.

TELEPHONES AMBASSADOR 1234	NAME	J. Rock Esq						TELEPHONES AMBASSADOR 1214	NAME			
FONDON	DATE	DETAILS (SEE C	OVER)	AHOUNT	CREDIT	BALANCE	DUE	LONDON	DATE	DETAILS (SEE OVER)	AMOUNT	CREDIT BALANCE DUE
Private Danqueting Service Commerced Constitution of Constitu	22MAY-59 23MAY-59 23MAY-59 23MAY-59 23MAY-59 23MAY-59 24MAY-59 24MAY-59 24MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 25MAY-59 26MAY-59	RADIO TRUNK MEALS MEALS MEALS DRKFT LOCAL APART COCO LOCAL LOCAL LOCAL LOCAL APART COCO RADIO MEALS	ROOM ROOM ROOM ROOM ROOM ROOM ROOM ROOM	* 2.14.0 * 0.9 * 1.3 * 2.14.0 * 3.0 * 1.6 * 2.0 * 1.3 * 0.6 * 2.14.0 * 0.6 * 2.14.0 * 0.6 * 2.14.0 * 1.3 * 0.6 * 2.14.0 * 1.3 * 0.6 * 2.14.0	nst	古 古 古 古 古	2.14. 0 2.14. 9 2.16. 0 5.10. 0 5.10. 9 5.14. 9 6. 1. 3 6. 2. 6 6. 3. 0 8.17. 0 6.18. 0 8.18. 9 8.19. 3 8.19. 9 11.13. 9 11.14. 6 12. 0. 9 12. 14. 9 15. 14. 9	Private Banqueting dervice Control noon 10 10 10 10 10 10 10 10 10 1	27MAY-59 27MAY-59 28MAY-59 28MAY-59 28MAY-59 28MAY-59 29MAY-59 29MAY-59 30MAY-59 30MAY-59 31MAY-59 1 JUN-59 1 JUN-59	LOCAL	. 0. 7	15.9.6 15.11.3 15.11.9 18.5.9 18.6.6 18.7.9 19.4.0 3.14.6 6.8.6 6.9.3 6.10.6 12.0.6 14.17.3 14.16.0 14.17.3 14.17.3 14.17.9
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Voucher C5

E. & O. E

EXPLANATION OF DETAILS EXPLICATION DES DÉTAILS

	APART	Apartments	Appartements	APART	Apartments	Appartements
	BRKFTROOM	Breakfast served in bedroom	Petit déjeuner servi dans la chambre	BRKFTROOM	Breakfast served in bedroom	Petit déjeuner servi dans la chambre
	BRKFTLATE	Late Breakfast	Petit déjeuner après l'heure	BRKFTLATE	Late Breakfast	Petit déjeuner après l'heure
	MEALS	Meals	Repas	MEALS	Meals	Repas
	F/J	Fruit Juice	Jus de fruits	F/J	Fruit Juice	Jus de fruits
	M/TEA	Morning Tea	Tasse de thé au lit	M/TEA	Morning Tea	Tasse de thé au lit
	LOCAL	Local Telephone	Téléphone	LOCAL	Local Telephone	Téléphone
	TRUNK	Trunk Telephone	Téléphone Interurbain	TRUNK	Trunk Telephone	Téléphone interurbain
	RADIO	Radio	Radio	RADIO	Radio	Radio
	TV	Television	Télévision	TV	Television	Télévision
	TAILR	Tailor	Tailleur	TAILR	Tailor	Tailleur
D	ENDRY	Laundry T	Blanchissage 4 4 4 4	LNDRY	Laundry	Blanchissage
	CLNR	Cleaner	Nettoyage	T BOLZELNE	Cleaner CUIT	Nettoyage La La Caraciana Nettoyage Nett
-	STGE	Storage	Bagages en Dépôt	STGE	Storage	Bagages en Dépôt
	ROOM	Room	Chambre	ROOM	Room	Chambre
	MISC	Miscellaneous	Divers	MISC	Miscellaneous	Divers
	PD/O	Paid Out	Débours de Concierge	PD/O	Paid Out	Débours de Concierge
	HAIR	Hairdressing	Coiffeur	HAIR	Hairdressing	Coiffeur
	NEWSP	Newspapers	Journaux	NEWSP	Newspapers	lournaux
	DEPST	Deposit	Arrhes	DEPST	Deposit	Arrhes
	CASH	Cash	Payé	CASH	Cash	Payé
		CUMBERLAND HOTELS LTD.			CUMBERLAND HOTELS LTD.	
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Cumberland Hotel Marble Arch London, W.I.



E. & O. E

Cumberland Hotel Marble Arch London, W.I.

TILEPHONES AMBASSADOR 13)+ TILEGRAMS; CUMERROTEL - WISDO	NAMEJ. Rock. Esq.	TELEPHONEI AMBASSADOR 1714 TELEGRAMS: CUMBEROTEL - WISDO		ck, Esq.
LONDON	DATE DETAILS (SEE OVER) AMOUNT CA	EDIT BALANCE DUE	DATE DETAILS (SEE OVER)	AMOUNT CREDIT BALANCE DUE
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BALANCE RECEIVED OR REFUNDED	-3-JUN-59 B Pb £	Ex * #20-9-6 BALANCE RECEIVED OR REFUNDED American Cypiess	-8 JUN-55 RADIO	77.18.5
		Voucher £5.	ROOM NO NAME	605 Faq.

APART	Apartments	Appartements		APART	Apartments	Appartements
BRKFTROOM	Breakfast served in bedroom	Petit déjeuner servi dans la chambre	10000	BRKFTROOM	Breakfast served in bedroom	Petit déjeuner servi dans la chambre
BRKFTLATE	Late Breakfast	Petit déjeuner après l'heure		BRKFTLATE	Late Breakfast	Petit déjeuner après l'heure
MEALS	Meals	Repas		MEALS	Meals	Repas
F/J	Fruit Juice	Jus de fruits		F/J	Fruit Juice	Jus de fruits
M/TEA	Morning Tea	Tasse de thé au lit		M/TEA	Morning Tea	Tasse de thé au lit
LOCAL	Local Telephone	Téléphone		LOCAL	Local Telephone	Téléphone
TRUNK	Trunk Telephone	Téléphone Interurbain		TRUNK	Trunk Telephone	Téléphone Interurbain
RADIO	Radio	Radio		RADIO	Radio	Radio
TV	Television	Télévision		TV	Television	Télévision
TAILR	Tailor	Tailleur		TAILR	Tailor	Tailleur
LNDRY	Laundry T	Blanchissage	T	LNDRY	Laundry	Blanchissage
CLNR	Cleaner	Nettoyage	OIII	CLNR	Cleaner Colonia	Nettoyage
STGE	Storage	Bagages en Dépôt		STGE	Storage	Bagages en Dépôt
ROOM	Room	Chambre		ROOM	Room	Chambre
MISC	Miscellaneous	Divers		MISC	Miscellaneous	Divers
PD/O	Paid Out	Débours de Concierge		PD/O	Paid Out	Débours de Concierge
HAIR	Hairdressing	Coiffeur		HAIR	Hairdressing	Coiffeur
NEWSP	Newspapers	Journaux	6	NEWSP	Newspapers	Journaux
DEPST	Deposit	Arrhes		DEPST	Deposit	Arrhes
CASH	Cash	Payé	1	CASH	Cash	Payé
	CUMBERLAND HOTELS LTD.				CUMBERLAND HOTELS LTD.	



TELEPHONEL AMBASSADOR 1214

Cumberland Hotel Marble Arch London, W.T.

AHOUNT

CREDIT BALANCE DUE

20.14.

NAME

Cumberland Hotel Marble Arch London W.

TELEPHONES AMBASSADOR 1214	NAME			
LONDON	DATE	DETAILS (SEE OVER)	AMOUNT	CREDIT BALANCE DUE
Private Banqueting Lervice Contract now 66 88 2. 19 95 5 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	10 JUN-50 11 JUN-59 11 JUN-59 11 JUN-59 11 JUN-59 11 JUN-59 11 JUN-59 12 JUN-59 12 JUN-50 13 JUN-59 13 JUN-59 14 JUN-59 13 JUN-59 14 JUN-59	RADIO BRKET LOCASH APART 00000 HEALS RADIO POCAL RABIO GRAFT RADIO GRAFT RADIO GRAFT RADIO GRAFT RADIO RAFT RATIO	* 17.3 * 2.14.0 * .0.6 * .0.9 * .1.3 * .1.0 * 20.16.2 * 2.14.0 * .0.6 * .0.9 * .1.3 * 2.14.0 * .0.9 * .1.3 * 2.14.0	21.16.2 21.17.5 24.7.5 24.7.5 24.7.11 24.8.8 24.9.11 24.10.11 3.14.9 6.8.9 6.10.9 6.13.6 6.7.6 29.8.3 9.9.6 12.3.6 21.
BALANCE BECEIVED				

BALANCE RECEIVED OR REFUNDED

Private Banqueting Service

G Pa - £***20-16-2

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ROOM NO

NAME

E. & O. E

EXPLANATION OF DETAILS EXPLICATION DES DÉTAILS



CumberLand HoteL Marble Arch London, W.I.

0ATE DETAILS (SECOVER) AHOUNT CREDIT BALANGE 15 JUN-59 BREFT HOUM # .1.3 #	CUMBEROTEL + WESDO	NAME	
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EXPLANATION OF DETAILS EXPLICATION DES DÉTAILS

APART	Apartments	Appartements
BRKFTROOM	Breakfast served in bedroom	Petit déjeuner servi dans la chambre
BRKFTLATE	Late Breakfast	Petit déjeuner après l'heure
MEALS	Meals	Repas
F/J	Fruit Juice	Jus de fruits
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LOCAL	Local Telephone	Téléphone
TRUNK	Trunk Telephone	Té éphone interurbain
RADIO	Radio	Radio
TV	Television	Télévision
TAILR	Tailor	Tailleur
LNDRY	Laundry	Blanchissage
CLNR	Cleaner	Nettoyage
STGE	Storage	Bagages en Dépôt
ROOM	Room	Chambre
MISC	Miscellaneous	Divers
PD/O	Paid Out	Débours de Concierge
HAIR	Hairdressing	Coiffeur
NEWSP	Newspapers	Journaux
DEPST	Deposit	Arrhes
CASH	Cash	Payé
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Dr. George C/ Ruhle
c/o Dr. Kusnoto Setyodiwiryo
Estanic Gardens of Indonesia
Bogor, Indonesia

AIR LETTER

Mrs. Lester Marks
Old Pali Road
Honolulu, Hawaii
U.S.A.

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NO TAPE OR STICKER MAY BE ATTACHED

IF ANYTHING IS ENCLOSED, THIS LETTER WILL BE SENT BY ORDINARY MAIL

June 17, 1959

*10" a

PAN AMERICAN

My dear Mrs. Marks:

Immediately upon arriving at the botanical gardens, I started arranging for the collecting of seeds requested by Dr. Rock. For the most, no problem exists, but I do need information regarding a few minor matters.

1. What is your or Dr. Rock's plant entry permit number?
Mention was made of this while I was at your home, but I
did not get it at that appropriate time. Any suggestions that
many facilitate delivery to you at the Honolulu end will be
helpful. Protracted delays in getting material into your

hands can be ruinous.

In some instances, it is better that I send seedlings and plant cuttings to start propagation. An example is Pinus merkusii, much desired by Dr. Rock as well as by the Board of Forestry. To be of value, these should await Dr. Rock's return to the islands, unless your gardeners are competent to handle such material at any time. I need your advice regarding most suitable for live plant material to reach you. All things considered, airmail will be the advisable means of shipment.

3. At the proper time, I'll forward cultural information available to me for plants sent. You must let me know at that time if more will be needed. I'll try to get it.

From time to time, a few unusual items will be added that do not appear on Dr. Rock's list, like Grammitophyllum and fragrant orchits. I hope that you will receive pleasure of from them. If I seem to send more material than you care to use, you can share it with others. Foster Gardens, Lyons' plantings, Munro's Diamond Head plot, Allerton's Kauni estate come to mind, although these, except Foster'Gardens,

mong my immediate acquaintances.

s a dream to be calling the Bogor Gardens home for lew months, and a challenge to help Indonesia with action problems. I want to give good account of lege.

Warmest aloha to you and Lester,

Four Excepte George C/ Ruhle

noto Setyodiwiryo, Director

Kebun Raya Indonesia

Bogor, Indonesia



SKÓGRÆKT RÍKISINS

REYKJAVÍK, June 19th, 1959.

Dr. J. F. Rock, c/o American Express Co., Zürich.

Dear Dr. Rock,

The American ambassador, Mr. Muccio, sent me 3 samples of Picea asperata spruce which you had sent him last week. I am very indebted to you for this gesture and these three samples are now on their way to the nursery to be sown.

We were so lucky three years ago that we obtained a pound
of this seed from the Botanical Garden in Copenhagen, and this
sample sprouted well land the Iscadings have so for proved to be on
very hardy. We have several hundreds of them or may be a few
thousands and they will be transplanted now. Two years from now,
they will be planted in the field.

The birches you sent me a few years ago from Seattle did not do so well. Only few of the seeds sprouted and by a mishap they were exterminated by one of the labourers who misunderstood his commands.

At last I would like to mention, that I have enjoyed your book, The Ammye Ma-Chhen Range and Adjacent Regions, very much. I have been through the book several times and am always finding more and more of interest.

If you could see your way to visit us $^{\rm I}$ would be glad if I could assist you in some way or other or take you around in the country.

Sincerely yours,

Hakon Bjarnason.

Links verelish Friend!

Eben erhalte ich Heren Bruf van 21. D will ihn gleich beauchwihm. Is hit wins leid, daß Sir donk Verdanings-Schwienzburten geplagt wurden. Here es mings doch eine dicht ad eine Theraquie geben, die es Thuren leisliche march, 2.B. Die Abführ-Mittel abends statt früh einereinehmen. Meine Prin hat darrebe Wild, also mit Regülator'-Tee, abruds kelt engenommen, schafft sir es. Fragen Sir Inh med einem Aret als Apartheter wach hoven Regülator'.

In Federa in Lowbon unissen schon gewesen sin Dfir Si ene the

Sir wellen min also dock with in drubdland och Oskeneich den Somme ver.
bringen, sondom in der Schweiz. Schoon, wenn man so nach Belieben wählen kann.
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low prince of dang fire but the ret Haws. Ich hape Telefore Inning 259.

Telegramm advase: "Weigold Birch/Anmersee"

Der Direktor & Bokan. Abt. Es Milister Minimus Wien (I. Birgoring ?) solvris uni am 19. 6., er habe für unt (- ind sie fa Denut auch -) in hu Wiener Brothellum und hu chmerschen Forskgergregheit. Abrika gesicht D is & Tat di Abrit un Teng, Frank-gegreghy after Enst. Tolden Platenin in 41. II 1948 de Bot. Both. A Academin Survey, S. 66. 67 in & Hort plate for Bohndufther, Wien XVIII. Songer Mendelsh. 33 sefenden, Soul alen wirdt. Des ist also die Abrit, die Sir ja and in Einsche gegrechenten gerandt haben. Soll ich hoffen, lap ich de Rech D un de Sir wier der Afung abzeschenten gerandt haben. Soll ich hoffen, lap ich de Rech De Abrit und live Sir erhelbe och soll ich ein in Wers Photokopsius erbithen? — Dr. Rechonger verwirt und auf in United Militars Food and Agricultur Agantschin, Forsky Divine, Roma, Via Torme & Caracalla (?), vrosperill sich also

Line junger Assisted La totaloner Zoolog, Torquetes ist and Peling general, win

Dr. Sugo Weigeld Luck on America, Oblo.

Teare Dot engerhandle. Er hat anymine Bitte in Paking his his Sous Weishoupt wiswishaft. Dushfirm versicht, wir du July; Atlas for the Jeology of Szechiran Avenue and Eastern Schang on Het. Tan I C. V. Lee zu brokeffer order wrighten in Musillokarte Darmits. Er should wir show in largeres Zest, wan labe then groups, Das sei silver are with truberways. After insurable it solver with so will test vershiher ily's ich kome Hoffring webe habe.

Airle habe ich leine neueren dires. Miten ihr der Kloma unseres Gelorts aufhribu lermen, obzleich solche exolieren missen. Nir eine Abrit samt man unt, It also wir chonesish grandet ist. Il visite in lest, lavne in Hambery las Nothernblight istrockt zie bekommen bri du Brits ine leftrichte Arzhu, he als in this know her Kair's Birthird with wille in Talisetiche I dann in Chargling and chinesists Labreria havakete I win unther Frui I am Touth in Sutsilland

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wie sollen wis see Kniegen? Non, wenn wis kerne solde Karhu kriegen/dir ja o aphund konglitzent sond), so missen in itus chu darnif bishrinken, eine nackte Phyto- I 200 - Severaphie zi goben. So okras kann man veletiv leicht riskandi bringen (was understens dafir veril hoffentlik wins Lebu with), wenn wan sich auf di gestredrige beshraukt, atur es word schawing schwer, wenn man in sihr ins Detail gelf. Tel stecke lethy school in silve with Debats wind warne Sir beher, in wher in Stureline in gehen. Is ware show wil executed, win man the Valoriting the Stecheritien, Krifern, Lant - I anden Nabellistine, & Bambir-Bharyel I & Rhowthudon (game in frota) iture ofry levnike. Dir du Tordogu sind hi Bilivagel, vo übernamiskoher Bambis vorherrakt, am aller-Es mig eine Leit zysten laten, wo ein firstel when Bumbis Blirgel Blisten und fri man, wichtigsten. Soedinan Dilleusi (Sirdovik de Tsinding) vorbrieden hat.

In a Holpway and in baldys Wednesher in Jestruthert griff Sir hundich

The schedu Higo Weryold.



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