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Notebeek May 1997



Notes

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A.K. Chatterji. Serving as Professional Assistant. From Lucknow, Lucknow 4 university, united Province). 5 Wants to study geology in U.S.A but Wester to get in party with me to leave " geology" and suow, 4 4 0 0

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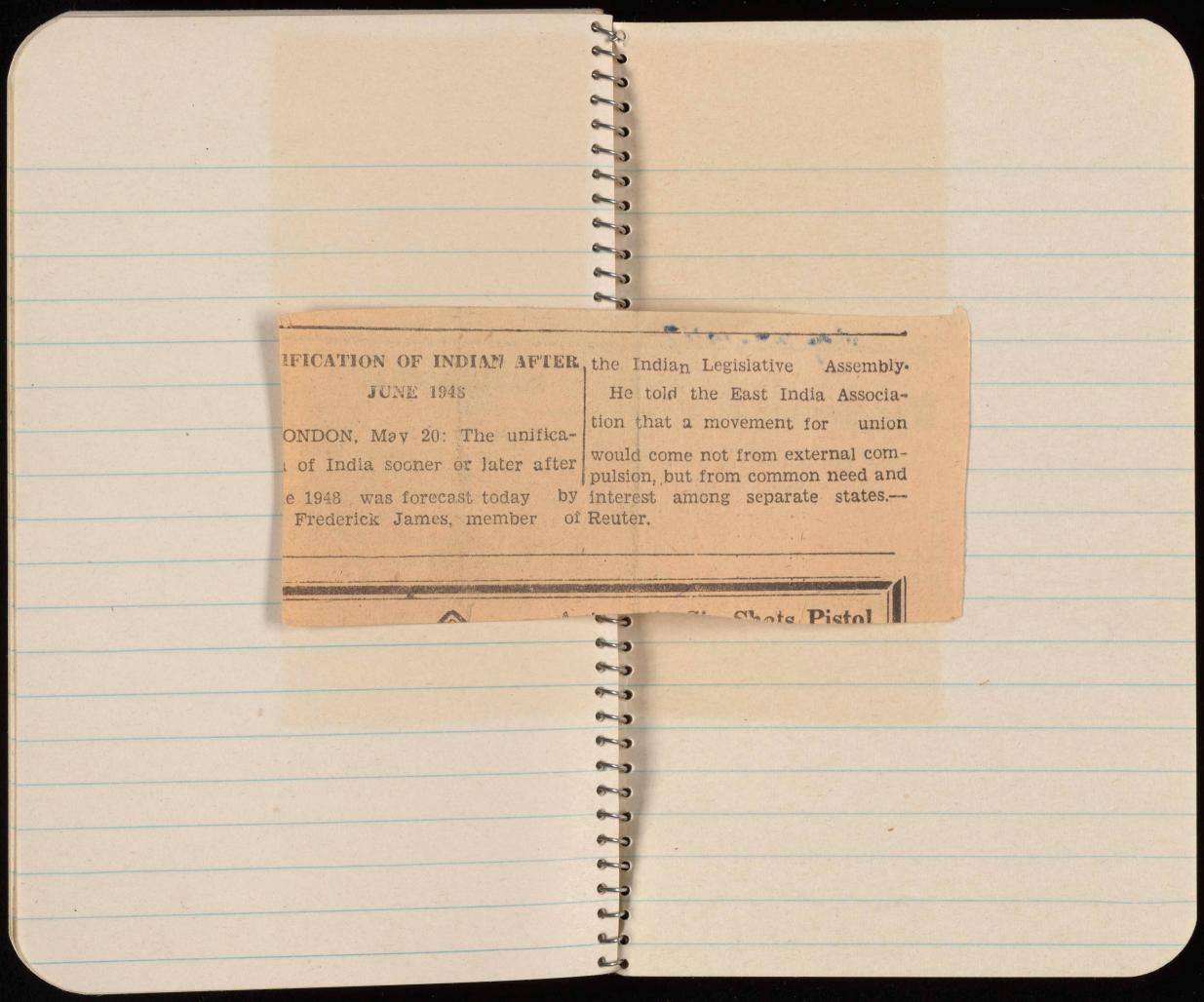
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Weel Hay 21-DI Wast. From Saeldal to Howeah. buin rist. Nex up in roompyt + shots . piller. Douglas. all at Classit best Bedamie Whis sisterialant. Wants So write tome. cannot. Janget. Lines her father. Cow Trowning by Cast. Cool night. Routed cep. From 3 to 18-Finally 21. "To reat 9" Ray- To montoon here. Dry expectation- Fallar. Makimonal. Dacka Hure -Drugation from Langues. Ever greenoss

My finest plain-The Ganges lixed Ton * Full but not high Rather quiet. Snow effect small = Benezen Templas n III mosque. Parelson bridge. Priza times! Servants Granleys not so much morse, Live dicken crete. Bone treatment for purifying sugar. 5 Basis and bend. 6-3 "I can take it - but . . . 0 Sat. May 24. Freday May 23 Finder families depart Only 7. Others cam not open but swamped with sitters the doors, Sitting on our dud claimants to uffer baggager Que Hunden Sitz beachs till 9 from (=10 from) in his super bounds lines at allahabad, a bied an roost in winder Indian and army all & offine Tresnock doors flowed. It class! Inday cleare on drag

My finest placin-9 The Ganges little Too 5 Full but not high 5 Cather quet -0 subsiding. 5 Snow effect small? Benever Failin Mil mosas I California landocate waiting for Mouseon - Only 5 The Trues are green. Frats 9 5 brance the tehm stubbon anerviel - Danjedingtea

I Church's notobook of Trip from China to India

mar, 4, 1947 - April 4, 1947

Standard LYFLAT BEP BLANK BOOKSE LOOSE LEAF BEVILES LOOSE LEAF BEVILES

A BOORUM & PEASE PRODUCT

NAME FROM TO NO

K41 Made in U S. A.

Thursday Warch to Too Mr Wang of China Natl aviation Conferation. "We are ready Affly but all grounded except international Callad Pu. Cama overquicity. begal me to stay with him but compromised on a chance tostay at a hotel. " Na familiar are laneson - for strangers ." So I went motherin. Cold home Sourcely a store in the city. Thise dinner. Famous for good but Souther an intern quetter a student, Tather Boys in Police dest.

Friday Warsh 5. Invenals in Ducient Rome. risk and choice. auto-taxis ricushums trucke, surreces, becycles, a few autos, many jeeps. English much Sidenmen, narrow, Filled, Scarce room to walk. Each pushing. Per is at CNNA (?) transfortation Took me to see Margaret Frame re South Late, Then I New Thomas Wong at Bank of Cunton. Both womted me to se the Churches of Emma Silver The helped me weach fr. Therei. He met Pu and me for lunch at american Club, actually healted. Brother Therei a super-tall pessionist. Reaple, esp, mountaineers, not reliable. Weas, stick upside dance. Se always high measurements. His magagines often dre Odinected. enroute? But he received The Commessey, letters reather and chileren are coincident Spend much of day at Police Hendquarters for permission to lame China. Fast has many obstructions but firms are eager and helpful. The Chinese are smilers and shorters, Long talk at home about Bus sludging at Nevada. Will China grant apassfait must be deposit \$3000 in 4, 5, 4? I campledge a home for him. His father believes that the cam and will come, Wiled my bad with coats. Kindows opened in moving for fresh are

- Kawjelein Friday 7eb, 28 -Wanglight on Clouds

modesty Was High Wantgamery.

a close chance. Thursday - March 6 a storm on? Stell cold. Our truck failed. So by braycle-loxe. customers waiting but our quand son away on errand by mostake. Part of mour. So Pur remained by the Bonded baggage and I rushed to and a. Received with a yell and tickets threat into my hands. Pu was weiting with the bogs and parted quickly Well call Thomas Wong of Canton Bank and Excess Tradited on my balance. Only 35 M. Bock to Kangwan Harfield. a gold wind, should be start best plane I had seem - Long .. Mores than Ho passangers, Sat with Chinese lady. In rear only 58° F. Shivery - Exhausted, steadily at 8600 Ft Trining back 'Rain at Hory Kong, Between - Foochow and amoy. Compars revenued. Soon turned solt again Total at dank is descended to feeld exercled with mountains No lights except in shace. Bus came out for us, Emptred at a hotel - General flevolded rooms and elber The natives look me to room - Town goingsters curried bag and look me to a native restaveant. Give of 1 oco till to each a bit high native. The best may dome tomorrow at 8 um So up at 6. I'm the only foreigner left here 666666666666

Conton -Friday March 7 city. No language from the achers?

Jor train on plana. Notice tells us toward

Fre transportation lamour from and

Raining. Samuels live powing from and

quetters. Windows wide open for fresh air in hat overdate and hold restibute. So sit his hat overdate and might but not Shanghai cold "8 oclock ?" White Cloud Field. Zun! Room 8, 200 Chinese. My wad an unceasing source? I gave lad \$1000 h tore me to restaurant. Will money summe & Hongkang? Chinese beds. I blancet, 2 pellans, I mattress. Pain some. Waxed umbrellas, raed hat and teed cape. Rickshow has enplu lampaulu. Tomorrow Calcutte but how de me get from here? in causes precale Delivering milk: glass bottles like our snow. sampler breations on either side of frame. at 8, it was 9. No language but gestine. One bay from anusia said Three teams daily.

Botter "first class" han up a plume ".

I galloped down and up a plume to
a bruck mainly of our presengers.

the reversion hong Kong? odd yesterdey, believes mile out with an Indian from Bombay as approcative as I. Bay hells and greens of S. F. Bay area in winter. Ced roads, chuckiles water felled on huck buch at speed. "Some planes" at least two from Calcutta grounded here, but at early 3 pm. We just ornived - a close chance. " My zam 2" \$ 8,600.00. "We paid \$ 40000. Took all am Britist, american and therese money, but me had private bath, hot and cold water, sheets - \$ 3:50 any My little boys et \$1000 each must feel like millionaires. No further examination! Coffie and cares \$ 3600. The field is a puddle of notes but truck carried us for shack to ladder. a momentary glimpose of dontaured gardens and farms with villages surrounded by mosts, lace green and in midgrowth. "So different the people from those of shanghai cutthroats, extortroners, interested in money Lucky Fre heterned my hundle of.

ay bills. Lucky too the maney

Feel much better but wobbly Gestenday brackfast butter bast and mile. Lunch " Eating on the Wing" sandouches, salad, coffee, sara, tangerme Carday. Dimmer coffee and paricakes.

Today a tiny coffee point carrey.

Timally too lettle, I can eat more than
I can got. Bouncing. 6500 Ft. In cloud - Sun almost comes three, 66° F. But Im warm loday. Hong Kong pears and ridges live Marine Tourd, 5.F, with bays everywhere below in labyrinthine series. How does bram get in? Finnacled peaks must have caused the crash of the money blance. We swing out to sea dold Turn back and down onto our harbon shelf. on Kowloon. The only mook. By truck & Demissiler Hatel until lomorow. Lucry indeed. H.K, had been blocked for two days. New the clouds hand settled again upon the peaks - Raming. But go by ferry to Victoria Island line Bergen I'm slopes and aspect but a French-Chimese city in shops to Eiglish in its frenth.

Salmeday March 8. up at 5:10- Rowing. at 5:45 assemble. No examination except called from truck at last moment to declare contents of carton. Swing my arms in protest. "Band" Marila. Boud bond, hand. Wheat learn to smile. Reshaps me can not fly today. Sterrardesses. Elizabeth, Lan. Shanghai-Hong Kong Annie Liang - Hong Kong - Celcutta Galcutta. "So no fear", says amie Cloud caps on Hong Kong hills. Our plane yesterday L 204, today L 206. Sailed out the harbor entrance, then east and up into douds. all placed in front? "Plane too heavy behind. Want your cooperate? Froten Lette". When released from belts 10,500 Ft.
Temp, 64 F "Now you are happy" - annie,
Plane cold, but heat turn and on Still clumbing. 11 350 Ft - Sun peops Thre but stretus still above. Now 12,100 Ft. 70°F, In The sun. "Do you want oxy fare?" annie. Just a slight faintress below belt?

I today. Happy that I'm going all the way

I today. Happy that I'm going all the way

The Calcutter. " yes many have called

today planes the best, but most your I Manding fields are without lights. We sured to fly round trip Shenghar, Peiping, & Theensin, Canton, Hongrong From 5 an 2- J. J. Japan. But some smashes frightened It is the public. So night plying farbidden". To So Skymastern, american crems, she she fields but no landing fields India has the fields but can not afford the Grymasters. Ours Reserve Pelat will land us at Kungming y. Then pelot us over the Hump" "No fear at Canton, Jas enough to have returned to amon if dank. Our turing back was a mistake by aperator at H.K. Enguy them made to Shai and we turned back, "Hope me don't go higher. Have accustomed myself to some oxygen above 10,000 F. "Summer icing from moonsoons only "Snow at 80 out but only temporary. Why not try to return to thave or fly over Neval to Brahmaputra, ? Pilats , 29.92. Highest today 11, 900 it too Wigh

12, 200 Ft, 72 F. Want to mhale deeper. anne needs her mask for "she has to walk", " Passengers can has bottes," of dond. This is below it. annie has given me a map of China on lunchbox cover, 12:30 pm at 10,700 China beneath the clouds. Red earth. Terraced, Trunk roads Treen fatterns. Some water. a city. Kunning! Much maters. Lanes? An ummense one. 8,600 Ft. Marsel parward for landing, a river Mountain ranges City and city park. Lagrans and budges, terond! a few ormental trees,

a great landing field for amer. troops and greatest part of entry. Now worm down. The grand rises in the runn ays. but my that durts to walk fast. Most of and Chinese prisengers left as got on. No Danish y?) moman Dinner at canteen; soupe, pour chop polatochips, greens, beans, caffee, care \$120000 (chinese) 129 annie: "CNAC needs traffic. Works with Thel. aux corp., Has every type of beacon 4 Control, radar. - Weather every half- hour. a the Checked from Shanghai".
Had head wind - So arrived late, Now spom. Checking engines. 4 his. normal & Calcutta and arrival 5:30 (Calcutta 3:30) but uncertain of We fly only to east and over shut in again as we more shut out this morning, low mint north me dould see soans 20 overling - Moore,

Loores, feels line Nevada. Distint outs, dry grass, porces. Down the valley ever græner. Irrigation. Biglance pelly 30 mi, long and another like it 5 miles beyond. Climate bracing as today.

But mountains matering plateon are
to north (about 15,000 Ft) making watershed
between yourtee and it. Some snow an mits but none visible from here. have has overflowed its dire and Covers land. Since muter raine is light, whence this mater ? * Get maar from landing field at 11,500 Ft. charp, worm mbs, zegzag roads, narrow nt vallegs, green in balloms Some traces. Much bars, Novo 11, 800 Ft. a lamasery in a pass? 12,000 FT. In the clouds "Thunderstorms go up Boars to but planes are sturdy and fly then them! Moores, Tough flying mint

11500 tot Selt basins Torraces in the silt itself Some foresto Cascade, stream? Long, name, on the a broad revery Silt river Landing field,
"No part Hemp Days Moores,
"Onle Gund now Valley wide Stream mide, Flat land landscape, Still at 10,500 Ft Torosta but some clearings, "Tingle, Wild an mal hunte "white Rice" me always called Five minetes ago no passed Bleamer Ones Borna Parad a river now mong in the jurgle and floring in white to with broad White " a braided stream yellow sile late, Over Katha! Apre a big battle

6 9 9 9 9 9 9 9 9 9 9 14-10,400 FT 727 This is Mossoon area. Extends almost to Kenning", Is this the XT-Tob- Noron our wings Then a thunderstown today for are these deared land ; yes Long out of clouds but destance muricy. 10,400 Ft, Now 10,000 Ft. 72°F We are to cross Ganges below The Banaputra, so quete & sast One tributary stream makes a delta in the white " Very Sponsinser 20, gup Ft, Sierra wooded pears below, Some bare slopes Due ane Pewer dangery "This range about 120 mi vide form wooded fyramid peaks.

- 15 an impressive higher my huilt it. They wholed over Have those plopes han ended reconstation and aboundance, Townels are fully represted, Jelling warms 9,600 Fit 72°F 1400 9100 Ft. Pakallel though 5 Cross erodok, line geologie fursano, repealed across the range, Not water from Jamellel sides, 7,600 Ft. Over the broad vulley of summerfallow fields, compounds with trees and broservoires in rectangular malle Goods green acces, nous meandoning deser

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 rives

4500 ft. Climaters of trees with homes beneath. Over the Langes Broad in mice channel to " Rather low right now" The braided islands broad and green + Really with parallel steames imposine +150Ft. Goddy fields under water, Homes even flooded Trees in nate, 4,50 ft. Bell for landing 7.03 pm Dum Dum Field -The airfields of India are next and Commodious but the Chinese planes are "sky masters. Little annie and the crew reman until Thursday before returning to H.K. and Shangai I she wants on I copy of anything I write about the trip. The officials are native and also British. "Take it away said ophis

Team 7 till 11 before bed. Thoroly the quietast. If proless nose highest The instruments must pay duty the belonging to India. We added rep the valuation. Duty \$ 135.00 but they must have Rupeas. "I could go to bener Monday for exchange" the I wanted to go to Ken Delhe lomorrand. Then I could bring the money tomor Tomorrow. He would meet me. "He hope I would have success with my tools in trade I assured. him that I was now too weary to use them. We laughed wouly. Then with CNAC and INA - Ten mily on the wrong side gette road to Victorian House . Fot a parter to carry half gload to Grand Hotel. I carried the other half -" only a block". It was only a furland, The porter had faith . I had no Judja money and he would select none of my assortment. He was contented with 1/4. I réached India battered. I shall now preach "This cellular world" notpeople but red lape. The word URGENT is the only going plank across the pits. Even the British will

accept this, Sunday, Warch 9 - Rounited De Baney's is in Calcutte, wants me to lare tea at his home this afternoon, then luxa the evening train with him to New Delhi Then suddenly bursting three the door came J. Banerji and Dr Kabraji filled with the excitement of their trip to the Teesta and Kosi which I was to join. Benerijis eyes spanded with enthusiasme and this body was a source of energy. I called him "Regusus". I could ride on Jony or in a 4-leaver arm chair. I was too precious to injure. They would guard me. Kabraji was slight but deeply karnest. J. B. was a forester and K. a meteorologist. off for the hills. "To poerers"! at 3:30 tea at & B-s. as fine and more modern Than the homes at Chino. What -Indian and Chaming. She shook hands with me but placed her hands in an A to her forehand touthe others in greeting and parting. a very girlish daughten-in-law was present at lable. These sevants stood at attention when we departed.

****** Monday, March 10-Trying the army Depots. Taxes time but tomorrow probably. Lose Dr 14_ Taken by J. B. to visit Me anden of Indian Geological Survey. Member of Karakorum Expedition to Tilet. Tebetan hills rolling. Water from great glacier 20 x 40 lme (?) came down suddenly in volume so great that they would him been barred had they not frencously crossed the river. Live The Viver on the Greatland Inland Ice Is it ice only or higher snow? auman and Col. Cook laid out the routes for J.B. in the Kasi and Teesta. Must read the Himalayou Journal esp, Val X. 1938 " ascents in Thibet", Oxford, " Will the Himalayan Club die with the deferture of the British?" Will the Snow Surveys sufflement it? at 6:30 tea at Dr and Wes Pandyas. He is an engineer from MIT, she a botanist trained in England and has visited america. Her sister is now a student in newclear physics in England. He is a mountaineer for the love of nature, Once was caught at 17000 en autum (October?) snowstone and Iscaped only by fleeing down trail. This was in the Kose in Negal. a doctor and coolie caught higher up,

failed to escape and mere never Found. On the Teesta side near Thibetan border at same elevation in Col. younghesband's old samp, autim snow also was found, So snow does fall in the winter × in the Himalayd, Mus Pandya is lager to go with us. "Don't let this be an afril Fool" to she a second Warina? "My husband will care for the children. its she shood at the head of the stairs, I tried to make the parting Indian salute to the eager laughing of all. Tuesday March 11-Down the Ganges in jeep and truck to select equipment from J. Ba old province Bengal. Dale palms cocoanut Falms, flat land, aut holes, water teld over four the monsoons, malaria. Need dramage line 4.5. brought & Essam. a hat day, carto of every kind

and draft animal and molor. all on the left. How do they escape Callision? Past the railway and ship whames to the mide great river like the Columbia with smoke stakes and the skyline. factory with machinery stacked." Some Day soon.
Were fortunate in types of shoes.
Shall rese soft ones. Dr. K. has a descent
descending bone in his foot. So got an
Esseimo Sandal for him. Tents, sleeping bags
were found. Back at 3 pm. Left at Frend until Dr K returned for carton, Dr Sen of HT W. B. shal called often by Thone to visit his office, but I did not done leave. Will visit when I return to Cal cutter, to Cal cultur, a floor sewant eagerly brought tex lunch and arranged for 5:30 am call a rupe tip for lunch was attractive. He worked for a repeat. Bill room and weals 20 re daily.

Wednesday, March 12-Calculta to Ker Dollie. Call for 5 : 30 am but halfed by Keeping light on all night. Parishing. Great box bulanced on head of parter aguegang three door. We have servants and porters. First ends at door 08 earlier. Quite English. Thea at 5:30 exact, "yes, VI six" but it was 6:15 am. Coolie squatting with servent at door. Carrod 2 satchelp on his head all way to Victorian House. I suppea satisfactory. Excess still 14 = 14 eaffers. Excess still 14 = 14 saffres. Study on garbo - Muslim to immaculate white and clear Hindu. Wissad my goggles. Cont get to suitcase, so phoned Grand Hatel - Calcutta 1700 (zero zero) x 2 4 Enguiry. They will look but I must Off exactly on time as told me in China, 2-motor. Capy about 20 passangars. "Bolts" but no smoking at all permitted. Slowly climbing 3000, 4000, now 5400 (-300). Overcast. Have put my coat (but not next) at Max 97 (min 77°) and max, humid 99% (nem 26%)

8888888888888 But have ærgnired a very runny cold returning this morning in left-nostril. and pools. Crossed the Ganges above the long bridge. Land becoming redden and browner. Spring delayed. Silt deposts an lee bank Much closing in. We are flying EAST INDIAMAN". Now 5, 800 (-300) .. 6,700(-300) 86 F. sitted streams. Water only a threat Only monsoon rams? dette or no suowater, at least in early Warch. Plana neemans. Hungry, had tea et 5:30 voffee at 7:30. Beergast promond at allahabad 334 kin from Colciella. 9,050 Ft (-300 Ft) 10:10 am,

Three a storming tell higher, 10125 am W-NW- 5000 (-300) 1 10:28 4,700 (-300)
A Steams winding but not selly. One reef and water fall Int agric, land! coffee - and Tree newspagers -Frankly breakfast, 10:30 am + 200 (-300), Sunshine - Clair Larla 'y mod, oge 10:83 4050(- 3 as) Long deroct roads Ottorwise fields - a mide river 10/42 2700 (-300) Erold mer banco like Missouri R.

8 8 8 8 8 Rachmand below 100 Alones Colors Tanks, gardin lake a luke 10:52 1400 (-300) 84°F. Manuels Ridas Evers below. Fields dry 800 (-300) Removedy - Transch, manuale de for lunch: flavor, eggs, Trast normale de toa Banatas Elever of field 319 Ft, but a bit Campare on 40 mind. Lir, Compose 11/25 (=, 12/25/m) Danset India - Cilifornia around Sacto and By me midsummer avaiting monocon + ? and immense and peoplet landing field 12(!) dement strips with, Sheet metal Rangero, and white stucco, bery west and standards, . Now need planes.

Warm on ground 80°F 2400 (30 4,400 (-300) Emp there in shorteness and directions 1:05 pm Planes log just come thru altitude 7000 Ft (Ques 7000 -300) Speed - air 174 mph; ground 180 mph On time the polli 13 pin local time = 13 pm ? = 1 fm In Testa Valley

havy mon invantum - Dr_ and companion

fled from 17000 and excepted, But Indishman

and doole were nove found - not even Has pictures of poares 10000 Ft Righer than morame and 20 mis legards.

Snow is mile enow, mut from elong Tibotan bander - Compound made by Beitich is ganghusband days. Some de le luc luc rod vill be gened but mouson mashes & cont, Have pedice of new on on of

3 3 3 3 3 3 3 3 3 Mus wants to go with If snow is heavy enough, me my have down surely dread, But should have eccess and Ocen - West have shelter in storms and out down packing like the non partos mentioned by Dr. Stown gring for glacier melt - after June Morsoon at foroft 3 1157 (= 13 hrs) Delhi 1750 Ft (-305) Renfect lann gatter ... State Guildings Country around day parter - lamanton

8 8 8 8 8 8 8 8 8 8 8 8 8 8 = b b b b b b b b b b b b b Saturday Mar. 15 -) New Delhe, Indea Since Hong Kong, the following facts
have been established: 1. Floods may occur in March at Running. Is et wonter rain? or is it onow melt on the divide between yanglize and Kungming. 2. The eastern Hump is below 12,000Ft. and trees grow even to the summits. Our CNAC copilat believes that the monsoon reaches almost to Kunning. Corroborative of this are the numerous garden terraces high up the peaks that slope only somewhat less than the mountain and are Country is planly ramped, 3. In the valleys of Burna, assam and Bengal are silt-lader streams some irrigation, many lakes and pools, and much land waterlogged from the pravious monsoon and because of the flatiness parrly

- 29-4. The western "Hamp" soo mi. mest of our course is neaver 20,000 Ft high. This is snowfed, said our capilate, 5. The largest asean glaciers are in the Karakorahn in Chinese Turkestan. and the stream flow from them or this areser its sudden, heavy and Continuous for the season. Had me not crossed (the Brama-putra?) where me did (by fording, there were not bridges), me could not have crossed it for a year -Me aumon of Good, Survey of India. Was this glacier ece only? or the winter snow accumulated on and about the glaciers ? or in the high mountains? The Thebeton plateau hes "sno-cat" be used there? are There landing fields?

the Testa or Teesta (Sixkins),

The Testa or Teesta (Sixkins),

at 17,000 Ft. autumn snowfall

Can be heavy. In the tosi

Precipitales retreat and an

precipitales retreat and an

strain farther up perished nithout

trace were the next summer.

The train at about 17,000 Ft.

The snow therefore, accumulate

that the train at about 17,000 Ft.

The snow therefore, accumulate

I what however is at the relative

area of the seasonal success

grantly of snow well remosf? 7. - In the Punjal and Kashmer the photos of writer snow caver comes low -eren to the auto roads and the slopes are gradual in their ascient."

3 3 3 3 3 3 3 3 3 3 3 3 3 8. There is only a trail to the snow-line in Strum and Nepal. The one suspension bridge is only 4ft wide and suspended on small cables Parts of the trail cut an a shelf in the garge slough off probably during monorous) and could not carry a vehicle! The sur-cat is effective only on snow. It would be broken or runed by rocks or dut. Here, therefore, only pomes or chairs. The fare, too high for legs. for legs. Shall me send the " sno-cat back for resale? "No send it to Cashmin for use there " Dhiv. 9. Times for snow- survey ? Depends upon latitude and altitude and relative precip-The minter snow falls earlier in the western Himalays, (3) at least the snow accompanying monsoons falls later in the eastern Himolayas. - Col. Cooks. The mousages are bearier toward the east but Dr B_ and Rakinathan doubt whether the "monsoons ruse no higher than 9,000 Ft. That may bertine in ashmir, they say. Western Himalayas are faither north and snow-line comes low. Temp, is not so high (?) Humidity is loner, See chart in Himalaya Townal. The Central Himalayas are Faither south, esp Nepal and Sikkim. The snow-cover is planty high. In the Eastern Himalayas no snow remains at all in March at 10,000 Ft and the tange is scarcely higher. 10. - Ranging by foot or by our to determine the snow-line is necessary. We know only that winter snow must exist in Napal and Sixkim at 17,000 Ft. and at perhaps 6,000-7, 600 Ft (according to passengens from India at Canton) in Cashmire Perhaps the snow-survey should

66666666666666666 I ist gestart in Nepal-Sekkim March 1. Is it from the air or actual some by its surveys can determine this.

It is we should try to make a survey the Teesta by april 5. Observations for the snow - line from the air or actual snow-By 3 1 3 3 We should try to make a survey to the Teesto by april to Negotiations are low for the recommaissance cruises by air Elst Les 11- airs Map of Snow-line. The Indeas avial Surveys under Col. Wilsom are willing to make a continuous snow map for reference, from which snow-summey sites can be pelected or upon which they can be mapped Carling of plane only 20,000 it On one earlier occasion 25,000 Ft.
Cam try oblique camera elevation of onow line's vertical for better for selecting actual snow duncy sites! But the mesas selected in Dikkim by Cal. Cooke are at 17,000 Ft leaving only 3000 Ft. Clearances among sucucling peaks.

a Spitfire of 30,000 Ft ceiling would be beller but must be imported From England. Col. Cooke suggests a cautious rather than an intropied pilat and that precontions should be taken agamst (a) sing vertical currents (b) side winds and (c) lack of ceiling for recovery. The completet mapping dameser, I understand from Cal. Wilson, includes that ground and the two horizons. This could be use in the midst of peaks or for the view of the snew-line. Owing to cloudiness, the mapping plane has been withdrawn to the west coast but can be available by april 15. 12 - The Snow Cover of the Cashmir Himalayas. There are highways leading to the

snow "Cooke and Dhir. There. is even a highway leading direct From Delhe to Simla. in Eastern H The Snow cat can therefore he rept at New Jelhi and transferred quickly try platformy truck or special 2-wheel trailer to and from the snow-fields. This will greatly ascelerate access Deken Western X 13. Initial Sucro- Survey System.
The Himalayas is drained by a series of parallel watersheds in the divisions of Bhutan, Sixxim Nepal, united Provinces, the Bunjab States, Tempolo and Cashmer. Stotage and stream cantral and The Feesta, Kosi and Sutley River basms, But the apper Sully, Indus and Brahmaputra dram

or rise in the same mountain area and compass the entire H . The Indus and B ___ are trunk streams and should be included in the forecast system. Snow Courses should also be established lower down on these streams, Thina may possibly be desirous the cooperating in forecasting the the twenty of the yangtze River and understanding the seasonal mosaic pattern will make it Jossible to understand the water resources and phases of the A better. In the winter snow best of leading matersheds snow surveys should be the first of each month beginning March april, May, June depending on the date

of maximum accumulation of the snow cover before it begins to melt where neither "Sno-cat now halicapteres are usable, The monsurvey parties should travel as Far as possible by motor or pony toward the mon courses. a shelten colin should be construct. ed and maintained at the end of each days treak and near the snow survey courses on the snow The summy party need be no larger than 3 or 4 - Food, bedding thought be Kapt at each shelter. also medical supplies of the snow-courses the secondsampler agripment should be kept and possibly a radio to tecema messages and report the our measurements. The cabins should be carefully inspected every autiemn to make sure that all essential badding, clothing, food and equipment will be im place when the snow-

In an pealoclad location Weasserments Jobelow the sum fields should be I for measuring the precipitation gage during the period of snow sunoff. 33 Jurement should be longer. Berhaps distalled to measure the winter snowfall, (3) Stream-flow Gaging. Bolow the winter susvofields but above the Monsoon area if possible and above diversions, a one on more stream gages should be seasonal, and annual flow from The watership. This is the only grantitative measurement attempted. The relationship of the snow is merely the percentage to its normal and should represent the percentage

of its own normal that the should attain The Wansoon flow is wholly in excess. The snow melt flow is earlier and may be the rivered numerous, 15. Reconnaissance Surveyo. (1) The first recommandance by trail will be into Nepal to study the Kosi Pasing under the leadership of J. Baneryi. It started from Darjeeling March 16. We Chatterji has gone to Bombay to hasten agripment by fast traine To Pariealing March 21 Meantime Natival surveys will be made by plane over Sikkim and Nepal from Jaya airfield and over the western & from ambala. These should guide the land expeditions 5 and May I and in Nepal in the Rose Basin May 1. (2) The Sutley Basin is far more accessible than believed at first. The basin is 300 miles long and

is separated into two halves by a sleep glacial mountain mass midway. Di will be easy to make snowfortunately there is a trail from Bareilly to Gartok that passes three The upper and of the Sully at 17, 890 FT, where conditioned at 16,000 Ft seem ideal for snow surreying, The problem mill be the use Thomas and avoidance of avalanches. It may be opssible to come up the Indus for by Suo-cat from ashmir. This general area will be central for the Silly, the Indust, and Bahmaputes at their sources. 16- Flood Forecasting.

Flood-forecasting is difficult because floods lave dansed

primarily by rain

(1) Rain Floods If floods are due to rain, they

of the storm and the character of the watershed. it is easy to determine its progress downstream and its heights or stages. (2) Snow Hoods the probable maximum slage, volume and date of floodflow of snowfed rivers can be approximately forceasted in terms of The seasonal personlage of the snow cover and departure of seasonal percentage from ets normal. This is done for the Columbia Kover at The Dalles, Oragon, U.S.A. Flash snow-nest floods occur near the snowline where the snow is shallow and can readily be penetrated and melted by the of the snow is too deep, the rain is held in suspension or

00000000000000 if the snow is sufficiently cold the rain frages as a creest within it. linder normal senshine, the snow melts according to the relative temperature but not as a flash flood. At night the snow ceases molling if the air temperature at 14Ft. above the one falls to 40°F. Does the Indus no the Sind rise normally above its dikes or banks whenever the floodflow" due to snow welt cours? New Delhi, India March 17, 1947 Josephurch

43-New Dollie Took Dysentery ance. 2, 15t 6.
Siteling accounts Palandi pollowing.
Incertain re tips. Nædes ale watching his "present". Ne might well man a pention of the salean Snaff - planty of Indian brand but Ther seeking the foreign for me. It was for Nadis ali Creat fallen - means By journing car taxe 4 mi. Do Old Dolhe. to a cometery-commutarium medicina ches old muspelman partress of many centuries ago. Beden with toward. Cramation the ouslow have. New Delhi a city of rast open, spaces or English gurdens couriederably formalized, England has put her touch and her granden Compartment. Seats 8 - Leds 5. The unuse - Washing, drinking, Grahme bulla. Hersko disappa Ermy. Harvest. Mary hands, slow work, ever breaking rook by hand. Harris Everymen his ærchited and brikler. Roofs negleded - Comingapart - Tile, Ocopping system - New lang Coming, tap-water , all drink et.

Bedded. Shots. By signeds abandoned Harristan Day. Manday, Mar. 24, Caferon RDF. Total Say. Carret To Trade Leve for here? Range and bulles - Terros dyles palme. a great plan, Little Ecosion scrift sheams Monday, March 31. a successor of Nadre Khan. He appeared et 6:30 with tea. Then walked off with my shoes to falish them, others had always asked for a bush. There I shawe that I had only I and a half amas in my decket, he waived me away as done just as a lettle favour to me. But when I left he reaped a Rife and shawled gratitude upon me

136696,8676667777 Refugees. 16 from Bys old to grandpa No disturbance in their town but they wanted Some standing. a boy thanked us in English as they filed out, april 1/47. Hill share seem to be brogans Keetnerg. 4864 Ft. On tea-lerraced slopes. Terraces & the top. Some clobuster -Stone walls. SMONVIEW HOTEL Katchenginge dan be seen on clear Lay Green hills needing rain, at abant 6 our Ft "Seed potatoes and vegetable 80 To slopes but all terraced. Sheat won houses with a few of wood. Whence the overtook the morning train. autor and railway have the same grado except for occasional switchbacks. Frade Crossings immercebe. Tough on the train The auto curves are only a but shorter, fine a silted river. First class es a gless cage with

lounge seats. The third class is a chicken coop. Can sit on top of engine cab if cinders not minded or on the roof of the cares. Is live to under there. Some freight cars seem less than 10 ft long The try locanistive is fed coal down the middle of its back. a stoker stood astrude et to pass the coal. The brakeman in the cab seemed The steering so closely ded hat turning of the wheel correspond week the curve of the track. Dayeeling - app. 7,000 Ft. en both sides of the ridge. a long Tall town. Shops tiny but danty. Old shapkeepeus sedately reaping their accounts Precture post cando: Races? a blend of Indean, Chinese, Thebetan Ther cont tell them again! a merry Tibetan woman provided our packers, "Michwood" a full half-mile farther on one the north side of and shawered gratitude upon

the slope, a start gerl look metal trunk and bed roll. Then offered to Carry my overcout. I indicated that the load would sunk her thru the pavement. She could leave me behind like a lordouse - Problems -Every officer has an orderly and a stenographer. The radio comps consists of 10 (all Indian) with z machanics. Have army rations, Mr Finlayson egger to see me - May not go for the Patton is delamed in Calculta by The roots. Patter is familian with the Teesta and Finlayson is a campamon, The geologist Dutte is here waiting. Wet Dhir of the road. Will call spin londrow. "Midwood far too far out. Only fromished have recommended. Really a villa and spacious with view into the depths of only hage permitted But feels like a seme abandoned. feathmity house, Water scant. Provide

your own bedding. This has been staring with me. Meals are mative with averemphasis and curry and spices. My month and throat the feeling hungry land peeling hungry. Word has come that Mr Patton and Mr Julayson may michdrans. Former detained in Calautta. Message has been received from Ir Dineys That snow 1-3 ft, deep had been encountered that forced them to detour. They have the lovek sections (1-6) of No.1 sampler. This depth seems scart. Everest in the early autumn are pure white to 13,500 Ft indicating the presence of writer snow. Wadnesday, april 2. a more cheerful day. Shall move an to Ganton tomorrow for The morale of moving forward. him at nown some me I have to well to bunch in his home, Mr Pattere can come Dam, Showed me Darjeelon and bright new snow in determen to 13,000 F

There must be some winted snow, My trop may not be, whally in vain -I must get a set of views of and from Darjeeling - drine across & Junton. Thursday april 3-Late leaving - Road 70 me, Slow -7 hrs - Taxis needed early next morning. So would spare only 3 let first buts we needed 5. yielded twhen Palit appials then granted a truck with essort desfite navioners of road . So 5 Turis granted -Slow descent into Teester - Our driver got out to reich, an overloaded led who seemed lobe you walking. Nepalise hvormen I wear a jamel on side of nose and pendent Thanging from center of mostrils, Friday, april 4. Dar Burgelow Comm. mireless to Dargeeling but Patton represed to accept the message and Palit. agent said me had stanted. We received the returned message, mus read, Paul made peace for us, I was even invited to stay at the Cosedonay Sahas student come. Dr -

but remained to rest and purchase Mast of provisions Endia since 1920 after First World War, ened 6 mos in thasa, 16 \$ 20 days trup Snow doner down to Ly and? slightly under 10,000 pt, tota Vatream Has siried at Tunges have 10,000 ft, Snow about 3/2 deep, girl/ses candy wine a wine Frombles - no doction of Samo Drive, High blood proserran and or want anapl responsibility. Later Graden

-46-Saturday. a day of calls and calls back. Two lade to visit the mahanaja. " susually they fear white faces." Talk the story of Take and Thester,

Chhangu

Jan Juan total Basin 26000 Km² active Basin 13000 Mm3 average runoff 68 mi/s volume per year 2/200 Am 22 × 108 m3 130 × 108 m2 0.17 / = 34 cm

G127,5 269.7 220,2 249.8 739.7

Ear from the Madding Lrowd The idle thoughts of an dale Fellow Three Men in a Boat Come K frome! Vice Versa (author ?)

Nahuel 1234 5678910112 13141516171815 Hate phile spell high the would new much 3800000 Os, for

Streamegaging

5000 000 Ps (5000000 Ps.

yearly) for 5 years for

studied of smand

melling rount of discharge Jan Feb Might Ap. May Jun Jul Aug. Sep Oct Nov Dec period e Winter ->

San Juan River minimum unimorum 464 cusecs ma'xumu maxumorum 90,000 cusecs annual) annual) annual) annual) annual) annual)

Major Runoff Rio San Juan Oct (last 1/4) To March (first 1/2 or entire month) Rio Mendora Qct (allor last 1/2) to march (first 1/2 or lass often entire month) " " Rio Diamante Rio atuel " Rio Colorado Oct (last 1/2) "

But major flow of Colorado is rather Oct - Feb (5 mod) Compute average of all years for October and March.

Jachal 3 280 Km San fran) Mendoza } 180 Km Mendoza 1 95 Km Tunnyan Tunnyan 7 70 km Stuck 55 Km Stuck 110 Km frande 790 Kin Pe = precipitation gage

- QS = gaging station

= SH = shelter but

OR = reservoir

= road

trail

Miss Butter - Tel. Co.

Zona de glaciares: freuto a Concepens of Sud er y a Ovalle on el La luce de mieros ferrus wenter se considera a 3000 m. (10000 pies ~) 06 Such 3 5.500 m (17.000 pu ~)" 1,5 a 2,5 cuses kin in clube Rivers
14 cuses kin in Mendings Rivers

the 42° chile

10% - glan

Mendoza Province 3000 m (10000 pis ~) 25 melos average rani and ausurall t00 miles east foom (2100 pm ~) 4 mels annag and and A A A STATE OF THE A

West & Viento 3000

Magazine Kit 000 feet Shule Nordana Promuce 4 mches 1100 feet < 100 miles

130/00 028 28) 68/000 57/2461 250000 28) 224/89 -160 210

EL FUEGO ES EL MAYOR
ENEMIGO DE LOS
PARQUES Y RESERVAS
NACIONALES.

PARQUE NACIONAL

NAHUEL HUAPI

PLANO GENERAL



MINISTERIO DE OBRAS PÚBLICAS

DIRECCIÓN GENERAL DE PARQUES NACIONALES Y TURISMO

REPÚBLICA ARGENTINA









