

Jack R. Harlan Expedition No. 5: Nov 24, 1967 – March 13, 1968
West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

SUMMARY OF EXPEDITION NO. 5: WEST AFRICA, NOVEMBER 24, 1967 TO MARCH 15, 1968

Color Coded: **sorghum**, **rice**, **millet**

Champaign to Dakar (Nov. 24, 1967) 1 day travel

Struggle for Independence (HVH2)

[Sénégal](#) (Nov. 25 – Dec. 8) 14 days

April 4, 1960, from France, Wolof, fairly stable

[Mali](#) (Dec. 9 - 22) 14 days

Sept 22, 1960, from France, socialist pres.
Modibo Keita

[Upper Volta](#) (Burkina Faso) (Dec. 23 – 29) 7 days

Aug. 5, 1960, from France, Mossi, stable 1967

[Niger](#) (Dec. 30 – Jan. 5, 1968) 7 days

Dec. 18, 1958, from France, Muslim, stable '67

[Togo](#) then to [Dahomey](#) (Benin) (Jan. 6 - 9) 4 days

April 27, 1960; Aug. 1, 1960, fm France, stable

[Nigeria](#) (Jan. 10 - 21) 12 days

Oct. 1, '60, from Eng, Coup '66, civ. war '67-70

[Côte d'Ivoire](#) (Jan. 22 - 31) 10 days

Aug. 7, 1960, from France, mixed, stable

[Sierra Leone](#) (Feb. 1 – 13, '68) 13 days

April 27, 1961, from France, coup 3/21/67;
counter coup April 18, 1968

(81 days in West Africa, inclusive)

Paris (Feb. 14 - 20) 7 days

Belgium (Feb. 21 - 24) 4 days

Italy (Feb. 25 - 28) 4 days

Switzerland (Feb. 29 – March 1) 2 days

Paris (March 2) 1 day

London (March 3 - 11) 9 days (27 days in Europe, inclusive)

Boston (March 12 – 14) 3 days travel+

Home (March 15) 1 day (4 days to return home)

Total: Nov. 24, 1967 to March 15, 1968: 113 Days, inclusive.

Champaign to Dekar (Nov. 24, 1967)

[Sénégal](#) (Nov. 25 – Dec. 8: 14 days) Jack Harlan is 50 years old at the beginning of this journey.

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Nov 24 "Up by 5:30 already packed: attaché case, the Indian suitcase and the little Nagahide (Naugahyde) bag. Checked the last two to Dakar. More or less on time to Chicago to Kennedy & ½ hr late taking off from there. Uncrowded, easy trip, 6 hour time difference. Arrived in a fog toward 5:00 a.m. Some fiddle & faddle at airport but had Pan Am via Air Afrique got a room for me & an Easo man (Bill Gilbert). Good thing. Town full got a pretty dumpy room & hit the sack at 6:30 a.m. or 12:30 a.m. Champaign time. Much noise & etc. but slept well until almost noon on the 25th.¹"

Nov 25 "The \$10.00 cab fare last night wasn't just a holdup. This is rated (with some pride) the most expensive city in the world. Incredible. Emerged from room ca 12:30 changed \$20.00 & hiked down town past market & all the way to the museum. It didn't open until later, so back to Le Colosée for lunch: excellent but expensive, then to market – fruit & vegetables & meat, bought a couple of very crude clay figurines. Hiked back to museum. Very good, but the number of masks overbearing; great collection of gold weights. Hope I find some somewhere. Back up the line. Bought straw hat to shade the eyes & to hotel. Sacked out ca 4:00 pm to 9:30 pm. Then hiked to past midnight – through parks – down to waterfront. Big deal at Hotel de Ville, but by invitation only. Visited with FAO sociologist who works in Chile, over a beer. Finally back to hotel. Will be adjusted² by Monday for sure but maybe not acclimated to the prices!"

Nov 26 [Sunday] "Had planned to go to Cathedral for mass but got waylaid – a guy we ran into at Hotel Touring (William Suytar, 1360 15th St. San Pedro, Calif.) had called & offered a cap, but the main attraction was his fishing boat. So we went down to waterfront after breakfast & found it by the helicopter atop bridge & by asking a Sénégalaise who was fishing up a local water plant for medicine. Ship was most interesting & he showed me all over it. Ca 700 tons of tuna caught near Angola. A biologist from Fisherman's Board taking samples to run electrophoresis to see if these tuna (are) like ours. After a nice tour pilot arrived & I left w/o cap. Hiked back & cooled of w. Bill Gilbert who bought me a beer & checked out to the Croix du Sud³. He is on a job for off shore petrol exploration. Rested a while & then hiked down to Colisée⁴. Too late for the regular dinner. Not much cooking. Grain market closed. Went up to top of Minaret of the Grand Mosque great view & no camera. Rested again – went out & collected some Pennisetum⁵ after dark. (STILL JET LAG?) Dinner at Hotel because out of money: \$20.00 gone already & so to bed."

Nov 27 "Must be rested. Slept only ½ the night. Up. Packed, breakfasted & ready when taxi man appeared. To bank & changed \$400 (97,200 F). To post office & mailed letters for people & me. Tried Sierra Leone embassy – ain't none. Tried Gambia said try Angleterre & I quit. Back to

¹ When we went to Africa in 1971 someone told us that you should just keep going and go to sleep at the locally regular time to avoid a jet-lag problem. HVH2

² Jet lag problems. If you just push yourself to get on the new schedule the first day you will have it beat. HVH2

³ There is a Croix du Sud hotel in Dakar, now but it looks pretty expensive. I doubt that Haran would stay there, but there might have been something less in 1967.

⁴ On 11/25 he wrote Colosée & on 11/26, Colisée. In 2013, according to Google, this seems to be a bar, which serves some food on a limited basis.

⁵ [Pennistum](#) is a tropical grass.

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hotel & after some fiddle, off. Motor started failing, which gave me a chance to collect whenever he had to stop for water. Got mostly the *Pennisetum* series which is obviously weed to cult. Introggression & rather massive at that. Finally arrived at Center at 1:00 pm & called on Directeur Sanger – a beer, lunch & over 2 hours of planning followed. Remarkably cordial & all out to help. Partly because M. Maubassin was at Rome (for the FAO Conference) & saw me operate the conference – small world. Wonder of wonders, they found transportation at great difficulty for themselves, put me up at a rest house (which they could have done immediately anyway). Most cooperative. Supper at the rest house & to bed very tired, but things looking up.”

Nov 28 “Up at 6:00 off by 7:00 & with M. Merlier, the botanist. A fine day of collecting the *Pennisetum* story over & over. He says weed is [P. violaceum](#). **Found one, possible two weed sorghum locations & many with *Oryza perennis*?** The trip alternating between blacktop and raw bush trails very interesting indeed. Boababs, Acacias, cultivated fields, Cassia (Torra?) etc. **sorghum mostly the big Guinea race with margaritifera, some crook-necked balls, etc. Probably we have it all. This is not a center for sorghum & probably not rice or millet**, although it may be at the edge of one. Back after 6:00 tired, dirty & pleased. Had to catch up on notes & off tomorrow.

“Note: Bechaut, Jean – Flore du Sénégal, Clairafrique, Dakar, pp 485. 1962.”

Nov 29 “Up early & routed out the club-man for a 6:30 breakfast, but to no avail. Fiddle & Faddle until well after 8:00 when we took off in a Peugeot carminette. Didn't matter, the road much better than M. Merlier thought it was. Route to Diourbel, M'Backé, Touba, Deali, Sagata, Dhara, Linguère. The sorghum drops out fairly rapidly the *Margaritifera* type holding on as the country gets drier, the tall guinea type very little in evidence – mostly pearl millet and it gets smaller with short heads and poorer fill. Here and there water holes with rice. The early one is perennial and called *O. Barthii*. The late one is annual (?) with red awns when green and short ligule and is *O. breviligulatum*. I am, naturally too late for the one and too early for the other. *P. violaceum* to *P. typhoideum* populations are around every village. We got several populations. Variability immense in all forms with respect to growth habit, color, length of bristles, ease of shattering, etc. Is there any barrier at all? Must be something. A good student problem. The countryside even drier and sandy toward Linguère. Arrived in mid-aft. (ca. 3:00 pm) called on Prefect who arranged for us at rest house. Crumbly but a bed. Bombed the mosquitoes and sacked out after a can shower. Had dinner at Prefect's house a Mr. Diène Ndour. Lovely house and very dignified gentleman. Boiled chicken etc. Merlier had provided a splendid picnic lunch. Bombed the mosquitoes again and slept rather well. No bedbugs although it looked like the place for them.”

NOV 30. Up just before 7:00 breakfast and off. This time the road through the bush. Linguère, Khogué, Lindé, Tiel, Gassane, Sadio, Taif, Baila, M'Backé, Bambey. Again the occasional waterholes with wild rice, very little sorghum and that of *Margaritifera* type. And the usual *Pennisetum* populations around every village. Extremely sandy over most of the trip, nearly getting stuck from time to time – a very informative two day trip and some collections. **Nothing very much to**

collect really⁶, but that is what I wanted to know. Lovely in mornings, but pretty dammed hot and dry in mid-aft. Bamby by 4:30 shower, shave, booze, snooze, and worked on collections and notes. At 8:00 to Merlier's for dinner. A very pleasant evening even with my very bad French. At least I can understand almost everything said even when spoken rapidly. Perhaps the speaking will come. I think his name is Henri. Slavery is still practiced under cover even at Bamby. It is difficult to see how it can survive illegally."

Dec 1 "Off late because of repairs on vehicle. Left ca 10:00 a.m. to Baba Garage, St. Louis, Richard Toll & with Sapin to **Guédé**. Little to collect. **Some sorghum, none wild.** Millet all about same **except the usual circle of introgressants around the village disappeared about St. Louis & is not conspicuous' sur le fleuve.**⁷ Sit can be found but much reduced. **The sorghums of the river are durras.** Weed rice at Guédé & that's about all. St. Louis on an island, refreshed by cool sea freezes, but dying since capital was moved to Dakar. The Sapin's had us for dinner – excellent as usual. This French cooking will kill me."

Dec 2 Breakfast at Sapin's ; saw a little of the station - **went out to a water hole& grabbed some rice seeds from the mud & then spent morning touring dykes between rice fields from Richard Toll to Boundown – about 50-60 km down river & evidence of introgression. It never looks to me like the O. perennis should produce a seedy annual race in the wild which was the one selected for domestication. This led to glaberrima & much introgression. At R. toll it looks like the perennial is also introgressing with either the weed or the O. sativa⁸ or both. May not have enough collections of the perennial to produce that, but scads of the weed annual with great variation.** To St Louis for late lunch & on back to Bamby (Google: Bamba) by 4:30. Dinner again at Merlier's with the GOARIN couple – He from Betogue and Mme Etasse! Had couscous with millet with gruel & wheat gruel – the works.

Dec. 3 [Sunday] "Slept til 7:30 **& got to work on threshing the millets. Slow work & didn't finish until 11:00.** **Started on sorghum** when Manboussin came by to invite me to lunch. The works again, this time with the Poulain's soils man. Instead of losing weight I'm getting fatter. Got loose about 4:00 pm & worked on collections & did a laundry. Then Manboussin came by & gave me a tour of the station that lasted until after 7:00. Still had work to do & no letters written, but have to rest. This has been a good week. Ramadan starts today. Soils v. sandy – short on O. M. P. & N especially . **regional?** rather well although 3,5 T/HA peanuts about max. Agronization good but a bit tradition – bound. More like everyone else & less like Rockefeller. Peanuts here considered fairly uniform, but Côte d'Ivoire considered a center of diversity. There is a cowpea collection here, but probably better ones elsewhere. **Early pearl millet has smallish heads & very few or short bristles; the late varieties are the ones with huge candles & long bristles.**

⁶ I assume he means no sorghums to collect.

⁷ French for 'on the river'

⁸ O. sativa is a crop form of the Genus Oryza, i.e. African rice.

Note at top of page 11: "Languages of Sénégal are many: official French, most common Wolof – a synthetic like Urdu. Then follow Serere, Mandengue, Diola, Peuhl, Bambara & many others."

Dec. 4 "Up leisurely for once packed & rearranged & fiddled, finally getting underway ca 10:00 am in a Citroen, the 3rd kind I've been in so far: Renault jeep and Peugeot Camionette others. Route: **Bambey, Kaolack** (lunch & big city), **Kaffrine, Koungheul, Koussanar, Tambacounda**, arr. 6:pm. Very little stopping; ¾ of route Koolack to Tambacounda bush w. very little farming; **by Tambacounda more sorghum, less millet & the hybrid weed millet swarms about gone from round villages.** Rice in waterholes & ponds here & there, but perennial all shattered and/or empty, thought we had a good one near Kaolock, but they were just smut seeds. May not get enough perennial material to work on. Mr. Vin, Directeur du Station Regionale IRAT, Tambacounda, is our host for tonight at IRAT rest house."

Dec. 5 "Up by 7:00, but generator support cracked & it was 10:30 before it was welded, cleaned & replaced. We had to cut out some of the tour. **The millets show no hybrid swarms at all, although intermediate types are present among the cultivated populations.** Villages still ringed by *Pennisetum*⁹ quite often but mostly *P. pedicellatum* on others. **The sorghum surprisingly uniform the whole way, a rather poor looking slorle glumed, white seeded guinense type.** But the rice a different story. Every pond, puddle & stream seems to have *O. perennis* but often sit completely sterile. Late in aft as we came toward Bas Casamance we began to get some seed from *O. perennis* & wound up with several collecting the annual weed rice we did not see even after looking a dozen times, until a stop near sundown & close to Ziguinchor Djbelor. Then we found plenty in some fields. But Casamance has the look of a rice gene center & in great danger. The route: **Tambacounda (A) – Velingara (B) – Kolda (C) – Tanafa – Ziguinchor (D)**"

Dec 6 Hubbard arrived about 8:00 & we went out to Cap Skirring¹⁰ on the coast. The route goes through tremendous forests, **across rice paddies** & pleasant scenes, crosses two arms of the sea on ferries & winds through mangrove & sand scrub. ***O. glaberrima* is common & we got at least some seeds of *O. perennis*, but none at all of *O. brivigliantta* which is very rare here. Made no effort to get *Sativa* – this will take a finer screen.** At the cape we walked on the beach, rode out to a village (Diembering) & swatted flies all through it, returned for lunch of oyster, fish & etc. palm juice straight from palms; a few collections on way home arriving about 6:00. Worked until well after 7:00 on the collection, finally bathed, drank the rest of the bourbon & went to entertainment. The Hoddad's & Merlier. Had a drink at bar & dinner at hotel. Went pretty well – I guess. This is small payment for what they have all done(? BOTT). (NEXT PAGE, MUST BE ROUTE:) **Ziguinchor – Nyassia (Niassa) – Dioere – ferry – Santiaba Mandjah¹¹ – Kuheme – Cap Skirring – Diembéring – Cap Skirring** & return.

⁹ *Pennisetum* is a grass.

¹⁰ Today Cap Skirring is a resort area on the coast of Sénégal. In 1967 it was only becoming well known. I am not sure why Jack Harlan went there.

¹¹ Google found Santiaba but could not find Mandjah.

- Dec 7 “Off in good season but didn’t get ferry until about 9:00 – on through Casamance¹² to Gambia – another wait at ferry & then straight run to Bambey – one blown tire & two dented rims arr. 2:45 lunch at Merlier’s. He is glad to get home. Was handed a written invitation to dine at Director Sauger’s. After lunch when went to office & met the Adjont Tourte. We hit it off well, I thought, & French is getting better. It was his car we took to Casamance. Visit with Dauger & then rushed back to do laundry. Dinner at Sauyers’ very pleasant. He likes the good life. Been at Bambey since 1945 & is the same age as I¹³. Finally home. Packed & ready to go. Pearl Harbor day?”
- Dec 8 “M. Etasse¹⁴ arrived last night & showed up early so I could visit a little. **Didn’t have much to add but thinks there is a small wild sorghum about.** What it is he doesn’t know – even if it’s annual or perennial. Not much help. Then into Dakar on the Director’s car – a very fine one. Hotel Croix du Sud – much better than Touring. We went together to U.S. Embassy & I met an Albert Williams, Chief of Party US/AID & he turned me over to a Mr. Rayman who shoots trouble. Decided on Air Afrique to ship seeds. To market & found in due time string & a sacking needle. Went back at hotel packing seeds when Sawyer called & invited me to lunch! I thought he would have been delighted to get rid of me. But we went to Colosée & had flown-in oysters & the works. Back to hotel, packed the seeds & lugged to Air Afrique. Filled out forms, paid the price & nothing to do now but hope. With all the French kindness, found I had a lot of francs left over & blew quite a bit on a mask, two gold weights, a bottle of scotch, some cigars & a big dinner at Colosées. This succeeded in putting the guts in a turmoil.”

Mali (Dec. 9-22:13 days)

- Dec 9 Came early. Up at 4:00 to finish packing; zipper on bag flipped & had to tie it up w. string. Cab at 4:45. Airport fantastic & a Caravelle¹⁵ to **Bamako**, arriving ca 8:00 & stomach in a real mess, also very tired. Turned out I could change Sénégalaise francs into Mali ones at airport & didn’t need to blow so much in Dakar. Cab took me to Grand Hotel where I spent most of the day trying to recover.
- Dec 10 [Sunday] “Spent morning & part of aft. on balcony writing letters. One home, to Sue & Bob & thank-yous to Sanger, Merlier, Sapiser, Manborussin & Haddad. It is now becoming evident I’m sick & not just an upset stomach from Dakar. Throat hurts, ache, nose run, feverish, etc. Much rest & some medicine, but pretty miserable. Took hike in morning & again after dark to get tired enough to sleep, but mosquitoes didn’t help. Big bats fly by in the eve. A very quiet town.”
- Dec 11 “Started the formalities. First to Sureté to get my passport. Not ready. Then to P.O. to mail all the letters – registered the ones with checks home. Then to U.S. Embassy. A Mr. Lissfelt had

¹² There is a Casamance area south of Gambia and the river Casamance dividing Senegal and Gambia.

¹³ Age 50.

¹⁴ M. C. Etasse, Selectionneur Mil et Sorgho, Centre de Recherches Agronomiques de Bambey, Bambey, Sénégal. See letter (34) Dated Nov. 2, 1967 and April 4, 1969.

¹⁵ jet plane

my file & had contacted Bono & etc. Met the Ambassador, Moore, & assured of cooperation & interest. Back to Sureté; turns out my Visa good for only 1 week. I think the Mali Embassy in Wash. did that on purpose. Got passport & went to bank & change \$250. Back to hotel for lunch & called M. Bono on the phone ca. 2:30. He sent a car for me & we had a visit. Obvious he isn't going to do for me what they did in Sénégal, but then he can't. I was then introduced to a M. Zanga Koulibaly, who is a big wheel in Mali & all was approved. Returned to hotel via Air Mali to get schedule, but they didn't really have one. To bed feeling pretty rocky."

Dec 12 "To US embassy to get something done about the visa . A form letter prepared & taken to Sureté. A Malian M. Suméré (Ing) took me on tour across the bridge in aft & we got some Pennisetum populations. **Saw *O. perennis* a couple of places, but no seed.** To Soulté for passport. Not ready. Tried to see M. Pasquerleau who had made a nice **report on sorghum and millets** of Mali. He wasn't in. Back to Sureté & waited until 5:45 to get the damned thing. Fed up on Hotel cooking & tried the aquarium. Very nice place but even more expensive. Got some medicine at pharmacy for sore throat – they gave me suppositories. I told them in very good French this was the wrong end of the plumbing, but he insisted it worked & the label said, sure enough, for sore throat. Well the anus was very tender from the diarrhea anyway so I got them. The anus cleared up right away but a miserable night. I did also get a giant insect lamp & for once no mosquitoes."

Dec 13 "To bank to change more \$100.00, since I had bought my tickets I was about empty already, then on tour w. M. Suméré. We found some Pennistium populations, but none quite like Sénégal. Then along river near city dump& **rice pando. *O. perennis*, *O. glaberrima* & *O. bresailogulata* X *O. glaberrima*. Don't think I really got pure *O. haviligulata*, but we shall see.** To Bono's for very nice lunch. They have a very cute daughter ca 12 who had gotten 1st in English & was quite proud in a very shy way. To hotel for "lepos" which was spent sorting and packing. Then on another tour which turned up almost nothing. Gave suitcase, suit & shoes to Suméré & tried to rest. One little pill stopped diarrhea, the anus is good shape now, but the head cold intolerable. Bought some sore-throat antibiotic lozenges at pharmacy, but they can't seem to stop it. Short night."

Dec 14 "Up at 4:30, shaved, packed & all that. Taxi at 5:30 & to airport. Plane to **Mopti, Gondoun¹⁶, Timbuktu & Gao**. Arr. a little after noon. No one to meet me. Not too surprised. Took bus to hotel & got rather nice little room. Lunch, rest & **hike for miles along river (Niger). This isn't the season for rice & I don't think I'm going to do any good here, nor much in Mali.** Nose & head still stopped up badly & DC3 didn't help. Gao an interesting large village – Arab style architecture & probably Arab style of life. To bed early feeling a little better."

Dec 15 "No word from anybody, so set out to find someone. First met Chef du Cercle - an imposing man: acting like a king. He didn't want to help & told me I should first register with police. So,

¹⁶ Google can't find

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back to find police, filled out two long, stupid forms, went to hotel & got my passport & turned it in again. Went to Service de l'Agriculture. Only one young man there. Everyone else out on tour with all the vehicles. Don't think he wanted to help either. Hiked around a while. **There is one spot of red-rice, but it is just in flower & a special site in a garden.** Lunch & rest, then 3 hr hike out into the bush & around by some lakes. **Actually saw some millet in water but tag-end stuff & not typical water flooding about vegetation** - should be photographed. I'll try tomorrow, after I get my passport. Back well after dark & tired. Walking in sand isn't easy. Two whiskies at the bar, shower, dinner, washed a shirt & to bed".

Dec 16 "First got the passport. He hadn't done anything & recorded on the spot what he could have done in 2 minutes yesterday. Then got the camera and **set out by back streets to where I was yesterday to photograph the water covering desert vegetation & last décrue millet, etc.** **The green stuff in the water was a sidge. Not annual wild rice.** On way back got caught taking a picture of main street & ducked back through side streets to hotel to hide the camera. They'll never get tourists that way. After lunch & the heat of the day went down to river bank & caught a young (15) lad paddling a pirogue & hired him for one hour. **We went out across the water & into the grass which turned out to be not only Eschimochlou coloni but Oryza perensia.** Good seed set for once & got two packets full. The boy & I could communicate. His French was about like mine. He gave me a full hour collecting & I gave him 400 francs – he had asked for 300. We were both happy about it. Other plants in the water were Nymphaeae and what looks like Ipomoea." (It could be that this fellow is the one in Chapter 1: Conversations on the Niger.)

Dec 17 "Little sleep; up at 4:30, coffee at 5:00 & off at 5:15 to catch a plane that didn't leave until 6:30, but so it goes. Nice flight to **Mopti** in what I take to be a Soviet Illusion¹⁷ with a batch of German tourists? East? Met by M. Russel of IRAT. To hotel (built by Chinese mission), then to his place in IRAT building on river bank. Talk 'til lunch. Whiskey, wine with lunch, pinch-bottle after. **Then tour by camionette¹⁸ along dyke. Collected O. peramis & O. glaberrima, then south of town & hired a pirogue (much better price than I paid; two poles for 200 francs) & collected Perennis & O. brionlegaltium. The latter not abundant at this stage. Water ca 1.5 meters.** Then Mopti for a beer at a local beer joint which was quite nice, a tour of Mopti, which was impressive – an island, surrounded by **rice** & river - then back to IRAT for gazelle steak, preceded by Raki (aniseth) & followed by pinch-bottle with wine between. The gazelle and veg. superb, then quickly back to hotel. Collections and note finished by 8:52"

Dec 18 "Up early & ready for car at 7:30. Out to IRAT, but boat not arrived & by 9:00. We left by truck to Bandiagara.¹⁹ It was market day & much color & activity. Went out to two Dogon villages (Sinkia & Dandoli) & collected & looked & photographed granaries, etc. Lunch at Bandragara & back to Mopti after tour of the market. On way back stopped at Korileoni village (Google can't find this place) & **collected wild millet - looks very much like P. pedicellatum; is crossing with**

¹⁷ Ilyushin

¹⁸ This might be a French automobile of some kind, like a 1970's van.

¹⁹ [Bandiagara Escarpment](#)

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cult. forms here, but a different pattern than w. *P. violaceum* in Sénégal. At Mopti took launch to station (must have a project there) poled over wild rice by the acre & collected seed. All perennial, deep water & sets seed well here. Dinner again at Russel's & to motel. Uncertainty about plane departure.

Some info on the Niger²⁰:

MOPTI Curé commences ca 20 July

reaches Max in November & décurre starts.

Plant rice directly ca 15 July

Harvest starts in December

(at this date water has gone down about 1 meter in 20 days)

DIRÉ Curé starts end July & max in December

Décure planting starts in Jan & ends in Feb. for Sorgo & mil.

Harvest in Sept with water rising about not yet max. When curé is early, there is trouble.

Note at top of page 25: Zone of max décurrie agriculture is: Diré, Goundan, Lac Faguibine, etc.

Gao – Same about 2 weeks later. Quite a bit of transplanting in d'currie cult even with sorgo & mil. At Mopti about 15-20% *O. sativa* & the rest *O. glaberrima* which being more 'rustique' is less sensitive to drought (before the curé) deep water, poor cultures, etc. & therefore yields more for the present. Most of area under 120-150 cm, but up to 250 cm in some areas. Hydrology & water control difficult because of conflict of interests with fishermen. Floating rice can grow 5 cm/day as flood rises."

Notes on M. Pasquereau's Collection 20 XII

Sorghums of Decirroe near Gourdan *nigericum* with pole, red, bronze & black glumes, seed ca 1/3 ot – looks related to *guinaea gambicum* *Cermum confusium* looks durra-like. The above two in considerable variety, seem to be the common ones of the bend of the Niger. Mellitum – a sweet type occasionally found; it has long glumes, but seed ca ¼ out anyway elsewhere we find very commonly the *guisience* – *gambicum* – *magaftiferum* – *conspicuum* race. The *membranaceum* – *exertum* – *mellitum* race, and *candatum* race.

// Cercle Kayes almost completely *gambicum* – guinease

This is western Mali on Sénégal River.

²⁰ The Niger River has four distinct hydrological regions, one of which is the Inner Niger Delta in Mali. Today (2013) it is source of livelihood for over 1.5 million people, who are fishermen and farmers. However, water projects upstream and decreasing rainfall have created a severe problem for these people.

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// Cercle Kita same (wherever that is)

// Cercle Bangouior same (South central Mali)

// Cercle Sikanso same (south E-central)

// Cercle Kantiala same with exertum & others (S E Central)

// Cercle Daventza (E of Mopti) has many Durras & cerouum, etc. still some gambicum – guinesse

// Cercle Bandiagma / Bankars / mostly gambicum – guinessea

// Cercle Nora (N-C) mostly durras

// Cercle Noire du Sahél (NW) mixture of gambicaums and durras – many full-headed & crook-necked.

// Cercle Ségan mostly gambieum with some durra

// Cercle Kolokani (N of Bamako) mostly Gambian. The general impression is that there are only two races really important.

The gambicum-guinesia in areas of higher rainfall and the durras in dryer areas. The membranaceum & condatum groups are numerically unimportant [therefore like Sénégal]

The millets vary enormously in seed size, but almost all have seeds well exerted (?) and without bristles sharing Candles are medium length, a few very large in diameter; but short. None as long or large as Sénégal and the only one with bristles from Kayes near Sénégal. Some very large –seeded types are with red seeds. In general they may be more or less like the 'early' types from Sénégal, but not like the 'late' ones.

Dec 19 "Air Mali on the ball & came and got me at mote. The bill reasonably cheap & me the only customer. Actually seats vacant on plane so need not have worried. Back to Grand Hotel & called Bono – got him after lunch. Went down to embassy & visited with Lisfield & changed \$20. A couple at the bar & to aquarium for dinner. Did laundry & went to bed. Arrangements to leave ca. 2:00 pm tomorrow."

20 XII (Note he starts giving dates as 20 XII=Dec. 20) "Up at 6:00 for no reason except tired of being in bed. Hiked down to river to see if I really had seen a wild sorghum last week. It still looks wild & can't be the only one in Mali, but it's all I have. Then to Pasquereau who was just leaving. Thanked him for report & spent 1 hr with his collections after he had left. Notes precede. To hotel check-out lunch & at 2:00 left with Bono for **Kogoni**. High speed trip to Segon – 2 hrs 15 min. Then on dirt road & finally dust road. Stopped somewhere in Office du Niger Project to transact some business & had a drink, then on to Kogni. The usual hospitality at some one's. I

can't remember or, rather, never got the name. Drink, dinner & conversation. To bed in nice rest house by 10:00.²¹

- 21 XII Slept well under net & blanket – cold. Shaved & I showered in cold water. Tour of the station. Pennisetum story the same *P. pedicelbotium* in the only culprit available rise: *O. barthii* here & there but no seed; *O. glaberrima* present as a mixture in *P. sativa* and *O. breviligulata* looks odd liguli too long, awns too short, sometimes head contracted like *glaberrima*. Everything much later than at R. Toll so hard to compare, but probably something similar going on. No too impressed by technique here, but there may be reasons. The works again at lunch (Me Marth?). A little rest & work on collections & a tour in rice fields then off at 4:00 pm to Markala dinner? & rest house for the night.
- 22 XII Breakfast at rest house & on to Ségare? with one stop to pick up the Pennistariums again. At Segou out to rice area west of town. It is a curé cultivation²² and the curé this year was so great the whole area was a total loss and not even harvested. Several thousand hectares. A little deep water rice was salvaged. Out in the fields there was some *O. glaberrima* mixed with the *O. stavia* & *O. brevigulata* of the off-type. Nothing else. Came on in to Bamako by noon. Got everything together, packed my seeds, tagged it & started to U.S. Embassy where THE INCIDENT took place. One of the most bizarre experiences I have ever had. When it was over & all the pieces sorted out it seems that it was simply a drunk, half-cocked customs type, well known to customs agents and police as well. I need not have worries as much as I did & probably could have scared him off by losing my temper judiciously – on the other hand, you never know & maybe I played it just right. The main thing: I got the seeds back & popped them into the pouch & finally got back to do some laundry. Big feast (got two figures 1 Sémefo, 1 Bambara to use up my francs) at aquarium since I had plenty of Malian francs that are good nowhere else on earth & not much good in Mali.”

Upper Volta²³ (Dec. 23 – 29: 7 Days)

- 23 XII “Up early & packed – getting tougher all the time. Obviously have too many envelopes so gave a bunch to Bono, who came & took me to airport & rammed me through formalities & got what few francs I had left traded into CFA francs. The guy really took care of me, but it wasn't wasted motion on his part. He was meeting someone on the same plane (son of M. Kayser, Dir of Kagoni Sta.) Off to **Ouagadougou, {Upper Volta}** with stop at Babo Dioulasso. The usual formalities & changed \$50.00 at airport. To Hotel de l'indépendance which is a big switch. May be expensive as hell, but there is nothing in Mali like it. Arrive after noon, so all offices closed & no point in trying to contact anyone. Went down to market & scouted the joint a little. In view

²¹ Now he is at the Office du Niger project station at **Kogoni**, some distance from the Niger River. Office du Niger is a quasi governmental organization of the Mali government that is coordinating projects to improve crops.

²² In two papers he would publish in 1969 on this expedition he will say that the agricultural methods he observed here were totally aboriginal and not influenced by modern farming methods.

²³ Upper Volta was renamed Burkina Faso in 1984.

of the long weekend coming up decided to invest in a bottle of spirits. No whiskey so bought a small pastis²⁴. Checked on possibility of renting a bicycle. To bed with Christmas carols on radio.”

- 24 XII [Sunday] “Went down to market & rented bike for the day. Took road to Niamey & went out quite a few miles. Got the Permmistium story again. Its getting monotonous, but the same ‘hybrids’ in the field & the same weedy pedicellatum. Harvested all over, but sorghum again the grunense-gambian etc. O barthii in the slews, but no seed. Cycled back {to Ouagadougou}. Lunch, sack-out toured town a bit on bike & turned it in. Sat up drinking pastis until 11:10 & took off to cathedral for midnight mass. Held out under the stars. Negro bishop presiding, French, Mossi & Latin, African music with drums beautiful. A fine service but 1 ½ hrs & I stood for a total of 2 hrs. It now being ---“
- 25 XII [Christmas] Sacked out after mass, wrote letters home & to Musgraves, Brooks, Huffines. Big Christmas dinner & sacked out again. Oh yes, in morning hiked out to barrage²⁵ & saw a rice field that had O. sativa, O. glaberrima, O brevilogulate, and O. barthii – but NO SEED! – or at most a dozen. Big loaf, laundry & to bed.”
- 26 XII “To US Embassy. No mail. Got directions to IRAT. ²⁶ Finally found it by asking at French Emgassy. M. Dumonthad left for Suria. Left card with the ‘guardian’ who said to come back at 15H. To bank & changed \$400. To P.O. to mail letters. Finished pastis. Big lunch again. Sacked out. To IRAT at 15H. Nobody. Fiddle & Faddle. Went again at 17H. Nobody. Tried to call. Nobody. Went again at 20H nobody but the guardian. Left word for Durmont to control use at hotel & gave up. A day lost except for the usual banking & Post office chores.
- 27 XII “To IRAT at 8:00. This time a fellow there who knew some French and works around IRAT. Seems Durmont lives in Saria & only comes to office sometimes. Managed eventually to get him on phone by way of Kondongou. We made a date for tomorrow morning at 8:00 at Hotel – so another day to blow. Hiked out to barrage area & spent some hours paddling around in the mud of harvested rice fields & got a little seed of the wild & weed rices. The O. barthii sterile as usual. The O. breviligulata & O. glaberrima only from secondary panicles. Not much. Back to big lunch, sack out & promised myself a light supper. To market in aft & bought writing paper & more pastis, since no whiskey. In eve went to what I thought was a joint for a sandwich & beer & found it to be a delightful garden restaurant & wound up with avocet vinerigrette, sole menuiere, salad & fromage. I’ve got to get some will power about this eating!”
- 28 XII “Finally got off thank-you letters to Bono & Russel, reminding the latter about the glaberrima from Mopti. Durmont came a bit late & we went out to Kamboinae station 12 hours from

²⁴**Pastis** (French pronunciation: [pa.stis] ; [UK /ˈpæstɪs/](#) or [US /pæˈstiːs/](#)) is an anise-flavored [liqueur](#) and [apéritif](#) from France, typically containing 40–45% ABV ([alcohol by volume](#)), although [alcohol](#)-free varieties exist.

²⁵ Barrage, French for dam.

²⁶ IRAT started in 1960. See separate doc on it.

Jack R. Harlan Expedition No. 5: Nov 24, 1967 – March 13, 1968
West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

Ouaga – seed multiplications for rice. Got the pennisetum story, some annual rices & failed on *O. barthii*. Back to Onaza for lunch & he went back to Saria much 'presse'. At 2:00 pm a chauffeur came & picked me up to take me to Saria (near Kondavegou). We stopped at Volta Range – nothing but a drying water hole – much *O. barthii* w/o seeds. Went on. At the station M. DuBos took me around. Got Pennisetum – 2 wild ones for the first time since Bamoko. Wild sorghum, *O. barthii* with much effort & 3 ?? the other rices & 25 glaberrima that Dumont had collected in June. A good day. Back by 8:00. Light supper for once & up to past 11:00 sorting out seeds if *O. barthii*. To bet late, but a good day.

29 XII “Dobos came for me about 8:00 & we went east on road to Niamey past the Volta Blanche to a barrage of MOGTEDO. Weedy sorghum again right off. Two kinds of Pennisetum again and *O. barthii* with no seeds or essentially none. It's the same story everywhere so not much point in keeping this up. Stopped on Volta on way back. The *O. barthii* not around the water holes here – water too deep & rises too fast. It's little alluvial terraces higher up. It may be that water-hole *barthii* is not a floating type & that deep-water *barthii* is a different race. Back by 2:00 pm & I took Dobos to lunch at hotel. He left & I sacked out for a while. Glad room air conditioned. Arranged & packed. Decided to take seeds along to Niger & mail from there.”

Niger (Dec. 30 – Jan. 5: 6 Days)

30 XII “Durmont said he would look me up but never showed. I packed early & killed time around the pool until 10:30 then out to airport & killed more time. Lunch on Air Afrique. The plane a bit late, but finally off to **Niamey (Niger)**. Country monotonous, dry savannah the whole way. At Niamey took chance on (hotel) Rivoli, turns out Terminns is the big one, but this one nice enough, the WC down the hall, but it does have seat & sometimes paper. Unpacked a bit & went down to river to see any rice. Rented a pirogue & paddled across. Current very swift in river in flood impressive. Nothing much on either bank, but on an island in the river found deep-water *barthii* mostly in flower & very little seed. Hard to tell if it would set well, but undoubtedly better than water-hole *barthii*. Got a small sample not too happy with it, but it's something. Back to hotel – gin & tonic. Hiked to market & bought J. walker & bottle of water at super market. Even found pipe tobacco at another. Niamey seems lively. It seems the Hotel Rivoli specializes in broiled foods in eve & the French flock in. Had lamb chops, but something, somewhere went wrong. Walked the hall several times during the night. Don't know what it was but it was potent”

31 XII [Sunday] Slept until nearly 8:00. Feeling weak & shaky as usual when the dysentery starts. Skipped breakfast & hiked to the market. Very colorful & active. Must bring camera next time. Then to national museum. Very well done. A sort of habitat display out of doors. Some animals in pens, different types of houses, displays in building show costumes, tools, utensils, etc. & art of different tribes & villages. A very good idea. Loudspeakers play native drumming & songs, etc. Impressive. Other African countries should do the same. Bought some more canned water & back to hotel by 11. WC & pills.”

1 | 68 New Years day. Didn't stay up to welcome it in but came closer than I thought. There has been a time change. No wonder I thought people ate early here and the waiter looks glum. When I show after 2:00 for lunch & 9:00 for supper. Not much to do. Took the camera & photographed some display at museum. Tried the market but without much luck. I suppose dysentery about licked. In aft took ferry to other side & hiked through old fields. Found a little Pennisetum & **weed sorghum** – not much else. Passed a little bar restaurant near water front & went back for supper. Very nice, but I was only customer & quite a few mosquitoes. Slow day."

2 | "Well, all set for day's activity. Nope. It's the end of Ramadan and even the market is closed. Took my bags for a long, long walk to the back of town & around to the south. Turned out a pleasant hike but little to show, except **more wild sorghum**. **Obviously common here**. In aft rented a pirogue for a second crack at the island. Worked the downstream side this time and did a little better. **Looks like some breviligulata & some glaberrima from secondary growth, but all too young – maybe one head is all**. Some décréué on island & took pictures – **even got one head of sorghum at this late date**. **very shatter resistant and hard to thresh. Might be bird resistant, too**. Another slow day, but feeling well again."

3 | "Well, at last, something open. Called on embassy next door first. No mail. Asked for IRAT office & after some fumbling the consul produced the phone number (20-70). Called M. Lienart. (Complete from his card: Jean-Marie Lienart, Directeur des Services IRAT Au Niger B. P. 150 Niamey, Pep. Du Niger.) He sent a sleek car & chauffeur. It's way out from down town. I never would have found it. We had a talk. Not much else to do. **Everything harvested here & nothing to see**. Got some info about the testing trials etc, **& borrowed report on millet & sorghum of East Niger by S. Dumont**. They can get 3 tons of peanuts. The presents from 200 KG to 2 tons – ave ca 800 Kg., a reference I must get.

Oka, Hiko-Ichi and Wen-Tsai Chang (killed) **Observations of wild & cultivated rice species in Africa - Report of trip from Sierra Leon to Tchad, 1963**²⁷.

(The report submitted to IRAT, the Institute of Botany, Academia sciences (Taiwan) and the National Institutes of Genetics, Japan.)

Liemont suggested I might go to Maradi to see Nabos, **but there would be nothing to see in the field**. He also suggested I return his report to Mr. Gardienan (sp?) Chief of Party USAID. He sent me back to hotel by chauffeur. **I spent 2 ½ concentrated hours on the report & took notes which I hope are adequate. It's frustrating not to be able to get copies of these things. They are important**. Finally finished report. Went to market & bought sacking material. Came back & packed up collections from Haute-Volta²⁸ and Niger. Some struggle with a small package & ripped my trousers with sacking needle in process. By now, 3:00 pm with no lunch. Went to

²⁷Looks like the Japanese beat him there by 4 years (more than that, actually 1969-93= 6 years

²⁸ When was he in Upper Volta?

Embassy & they agreed to put the seeds in the pouch. Went to AID & left report & a bunch of envelopes. I won't use for Lienart. Went to Air Niger to get ticket for Maradi. Full up. No seat. No way out of this place until Saturday. So bought ticket for Cotonou. Now I'm stuck for two more days. By now way too late to eat, but glad to have the seeds taken care of. Did sizeable laundry, had supper & so to bed. At least something done."

4 | "But for some reason a miserable night. Gas in the guts again. Thought skipping a meal would help. Well, again a long day ahead. Got haircut and decided to write a report & send to U of I. Went to museum park & wrote until after 11:00 back to room & wrote until after 3:00 pm – 20 pages. It still won't sound like much when typed up. Skipped lunch again. Maybe I can get the weight back in reason. Nothing else."

5 | "Took letters (report to U of I & thank-yous to Diemont) to PTT. Went back to 'Museum' & wrote home & took that to PTT. Asked at pharmacy for something for the 'liver' & got a preparation said to be 'eficasa'. Lunch, sack out, hike to park. Finally took in a French movie to kill the eve."

Togo then Dahomey (Jan. 6 – 9: 3 Days)

6 | "At last, hope of action. Packed & checked out. Lunch. The usual dull wait & dull flight to **Lomé, (Togo)** & to **Cotonou, Dahomey**. Followed the path of least resistance & took one. We went to a fancy hotel on beach. Fortunately full up. Turned out they charge 16-20 US \$/ day. We discussed the matter & decided that is not what I wanted anyway. To Hotel du Provence in the Quarter Africain – a charming, authentic old tropical hotel. Air conditioned room w. 'bath' \$8.00, food excellent, but the main thing the personality of the proprietor. It's a real dandy & brings back memories of the old hotel in San Pedro 26 years ago²⁹. The stop in Dahomey is worth the effort. If even for this."

7 | [Sunday] "The same chauffeur was to come get me at 10:30. **I kept thinking I had seen weed sorghum on the way in yesterday & set out on foot to check it out. Couldn't find it.** Chauffeur came & we went out to west edge of legume & I took a pirogue to village of Fascinating, if touristy, plane & took lots of pictures – probably none very good. Back by 2:00 pm. Sandwich & beer & rest, till eve. Another hike – shower & dinner & still another tour after. Interesting town, **but nothing useful turned up.**"

8 | "Called M. Werts at IRAT first thing. He sent a car for me & we until 11:00. He has a very good grasp of the problems both agrinomic & sociologic. Agronomically the main thing for the south where most of the people live is to reverse the distinction of the soil that comes from corst? **Corn** – 2 crops a year several years at which point yields are near zero. An alternation with some other crop is considered essential plus the input of fertilizer. The alternation is required not so much for strictly soil improvement as for phytosanitation and economics. If you increase production of **corn** by fertilizing, the price falls & you can't pay for the fertilizer. At present

²⁹ That would be 1942. Could this be Hondouras?

about essential to not overproduce locally in order to pay for fertilizer. In fact, better to sack the fert. To the cash crop & let residual carry the food crop. The big researchers are failing, whether governmental, FAO, AID or whatever, due to the mentality of subsistence agricultural peasants. If asked by the government – the King – the French – the gov't, etc, to plant so much cotton or so much peanuts, he is a good-hearted soul & does so, BUT he plants HIS land first & cares for it first. He's got to eat. After – sometimes much after – he plants the field for the King, the Commandant, the gov't etc. If he makes a dime, OK, but if he doesn't, so what? He still eats. Research, says Werts, in Africa is like a pin-ball machine (Note at top of page: pin ball machine = billiards électronique). The ball bounces from 100 to 3000 to 150 to 1800, etc., etc. Trying to make sense of it is a real art. Well from there to bank & changed \$350 & then too late for embassy bash for lunch. After long drawn-out lunch with some oil dealers from Louisiana, to U.S. Embassy for talk. To Air Afrique bought ticket for Lagos. Meanwhile much conversation with the Mme of the Hotel who is rather astonishing. Blonde (?) brown eyed, nice smile in 20's, born in Africa, studied in France, married; they drove down from France via Spanish Sahara – tough. She did job of decorating the Egyptian built hotel in Bamako. Arrived at Catomi & took over hotel from old couple. Buys provision, tends bar, chases goat, raises pigeons, chickens, cats, rabbits & dog. She had a 6 month stillbirth & is sick. So is husband. Nearly died of appendicitis in Dakar. Seems to know a lot about medicine, drums & how to handle them, decorating, purchasing supplies, etc. etc. The husband, I think, enjoys his tapeworm. Got ticket for Wed. allowing Tues for the possibility of a trip. In eve. Bill Taylor called & I invited him to dinner – languard & stack - & arranged a trip for Tue."

- 9 | Bill arrived about 9:00. Hung up until about 10:30 on some peace corps boys are getting treatment in hospital etc. Finally off & drove by the IRAT Norilly Station, which they inherited from old coffee & other research of the type. Nobody there but we saw the coffee. The three boys speak French quite well & know something about coffee & are working in Togo. To Abosmey³⁰ for late lunch & then a drive eastward to the river. A wild sorghum which I would have taken to be *S. verticilliflorum* very abundant in places & will beyond the climate range of cultivated sorghum solid stands on river bank, plenty of seed & sampled the cult sorts too, which have a head that suggests crossing w. the wild one – very thin capillary drooping raceme branches – otherwise Gambian-like. A good day. Back late, dinner & packed."

Nigeria (Jan. 10 – 21: 11 Days)

- 10 | "A horrible day. Started with stomach crisis in the night & got no better. Found I had goofed in the reading the last spool of films & have no pictures at all of Dahomey – which should have been among the most interesting – quite a lot lost at Niamey. Very disappointing. To airport. The usual & finally off in an overloaded DC-3 to land in a drizzle at Lagos. Customs simply incredible: harassment, accusations, personal body search etc. for everyone. Rude, arrogant but to both Negroes and Whites alike. After about 2 hours of it got loose & found a cab who took \$10 from me and never did take me to Lagos; dumped me off in Yaba (a suburb of Lagos). The

³⁰ Abosmey is in Dahomey, now Benin.

hotel is O.K., but miles from downtown. By this time not much point in taking any business so did a big laundry & hiked around a bit & let it go at that. The excuse for the big fuss at the airport was a recent change of money & they are trying to intercept the old currency; there is no excuse for the rudeness & harassment. Changed \$20 & had given a \$1 tip at airport."

- 11 I "Checked out locations from phone directory & wall map of Lagos & took bus downtown. Got off at Chase Manhattan Bank, but didn't realize it & walked on down to US Embassy. They said Sierra Leone had no representation whatever & there was no way to get a visa from here. We called Côte d'Ivoire Embassy & they said there was one in Abidjan. I doubt it, but I would be no worse off there than here, so let it go. Went to bank & I changed \$200 – making \$236 down in Nigeria so far. Back & talked to Agris attaché who suggested I see the USAID people & a Dr. Kopt at top of list. Went over there & found he had at least corn minncations? & transport. He (1) sent a message by radio to Orrima Webster to bring my mail & meet me 19th at Lagos. (2) sent message to Chheda (3) arranged for me to get on shuttle to Ibadan tomorrow; and (4) sent me in a car to Nigeria Airways all very nice & done promptly. At NA bought ticket to Abidjan for Monday 22. Didn't buy more because I wasn't sure about the money. Walked over to bridge & was going to take bus back. Soldier stopped me & wanted to see passport. Finally he showed me bus stop, but I took wrong bus & wound up a long way from hotel. Took cab then. Packed & sorted for early takeoff."
- 12 I "Up early & ready to leave at 7:00. Big delay over bill to getting cab, etc. but got to US/AID in plenty of time/ Caught shuttle & to Ibadan by 11:00. A message at the car pool to take me to US/AID Ibadan & see a Mr. Donovan. Which done I found Chheda. Agronization and communication rather impressive. Chheda took me to University Guest House & put me up. We had a drink & lunch. Met a few people, too many to remember. Finally a bit of rest, a tour around the farm & appointment to see Forestry Herbarium tomorrow. Found out Herbarium to be closed on Saturday so went out in eve. Looks like Chheda will do all here. Notes in other book, but found sites of both **wild sorghum** & **a wild rice**. **Located the sorghum near the golf course, looked but did not find it on 'Forest Hill.'**"
- 13 I "I went out to 'Forest Hill' where the herbarium is & down to a small stream **& found *Oryza punctata* immediately**. Then out to Int. Inst. Trop. Agric. IITA grounds where work still progressing but slowly looked all over & in the wettest spots – **not wet enough for rice**. The place should be impressive when and if ever put into operation. **Then to University Farm & found *O. pinsclutors?* again plus *Coix***. Late lunch short rest then tooled around again & found more **wild sorghum inside the city limits**. Back to do a laundry & 'rest' for dinner party at Chheda's. This went from 9:00 pm to midnight with Stanfield (Botanical new curator of Bot. Gardens), Geo. Jackson (Taxonomist & scene designer for community theatre), Brian Hopkins (Forest taxonomist ? who guided us to herbarium), John Craig (Engineer who showed us over IITA tract), Mr. Adabon (who took me around in the Mercedes), Mr. Jim Mackinze & wives of several. Others met: Prof. Victor Oyenuga (Dean), Dr. Al Rushdi (Head Bot. classmate of JMJ.)

- 14 I [Sunday] "Was rearranging luggage so I could leave stuff & not take it on our trip up country when zipper flipped again. Moved to another room. Met Chheda 9:30 & he showed me around for 2 hours. The campus rather impressive and the Bot. gardens even more so, for a small Univ. (2,000 students). Saw Stanfield again in the gardens. Quite energetic for an old fellow. Trying to do flora of Nigeria, but no time with the Bot. garden on his hands. Read on his mss of 'Nigerian Grasses'. Lunch w. Chheda and aft to myself."
- 15 I "Up early, packed and ready for Chheda at 6:15. Breakfast at his house & off by about 7:00 when curfew lifted³¹. Route for the day: **Ibadan (A) – Oyo (B) – Ilorin (C) – Jebba (D) – Mokwa (E), crossed Kaduna R. – Bida (F).** We checked practically every waterhole & creek on the way and did not see *O. Barthii* until the Kaduna River area. No *O. breviligulata* at all. Wild sorghum we picked up along a streambed and at Jebba. Both hairy & probably what is listed as *S. vogalianium*. We did not need to go out to the small island at Jabba since we found it on the large island, but had quite an argument with a soldier before we could get it (the seeds). Got some other collections on way. Dusty trip – nice rest houses. Went out to Bodeggi Rice Station to arrange for tomorrow & back." PN: "Bodeggi" (Google agrees) (MUST HAVE STAYED AT REST HOUSE IN BODEGGI. HVH2)
- 16 I "No breakfast until 7:00 so got off at 8:00. Went to Rice Research Station. Getting a few seeds of *O. barthii* & no *O. breviliqulata*. Very Curious. Patil says it is there, but much of material was just being harvested & no signs of the weedy ones. (DO YOU THINK THEY WEEDED OUT THE WEEDS AT THE RICE STATION? HVH2) Not sure Patil knows one from another, but it is possible, of course, that it does mature only to disappears by January. (ADDED NOTE:) Patil gave us 45 *O. glaberrima* collections. See notes. The route in afternoon: **Bida – Zungeru (H) – Tegna (I) – Kontagora (J).** "Much uncult. Savanna. Wild millet populations. New types of both sorghum & millet appeared by Tegna – the * shipped millet and as a very small seeded sorghum reminding me of the thing I thought to be half-wild in Sénégal and Bamoko (Mali). This definitely cultivated. Again, nice rest houses & dusty trip." PN: "Konlagora"
- * Harlan drew a small shape between the word "the" and the word "shipped" indicating a certain shape, which would be very difficult to reproduce here. HVH2
- 17 I "Dust storm came at night on a cool north wind. Hardly saw the sun all day & it carried clear to the coast. A remarkable amount of grey dust. The route KONTAGORA-KABOJI-BOKANI-MOKWA-JEBBA-ILORIN-OYO-IBADAN. Millet pops & a little sorghum. No rices *P. purpurevm* reaches north of the Niger at Jebbs even occasionally on upland. This species cannot be ruled out of the millet story – it crosses well has dawing opis with pega large stalks, etc. There could be a diploid race somewhere. Arrived by 5:00 dusty & dirty with a good collection. Note: millet comes south of the Niger at Jebba, but is very minor whereas north of the Niger it quickly becomes a major

³¹ The curfew was called because of the cession of the eastern region of Nigeria into a separate nation called Biafra. The curfew was dusk to dawn, so the curfew was lifted about 7 AM.

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West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

crop. They tend to be very soft with long peducles to each involucre, but with nice looking types. The north wind from the Sahara is called the Harmattan." PN: "Ibadan"

18 I "Up by 6:00. Finished threshing & recording collection & breakfast by 8:30. Chheda came & we went to campus, saw his lab & Aboaba who will be going to Wisconsin in June. Also head of Dept. Checked out & we drove by Abeokata road to Lagos, hoping to collect in rice area. Turned out to be only upland rice harvested in August & nothing whatever to see. Got to Bristol hotel by 2:30 with only one collection of *P. purpureum*,. No sorghum, no rice, no millet. Had Chheda as guest for lunch. He had to take off immediately to beat the 7 PM curfew at Ibadan. Hope he made it. Zipper fouled again. Worked it out; packed seeds for shipment did laundry of 3 pair trousers, finished Scotch & had dinner. Looks like a dullish wait ahead. Pimps working hard in the area." PN: "Lagos"

19 I "Up at 6:45 with sack of seeds – the largest since Sénégal. Hiked to US/AID by 7:30. Found Dr. Kopf & he promptly made arrangement to put the sacks in the air pouch. A weight really lifted from my shoulders. The news that Webster had been unable to fly from Kaduna on Wed & Thurs because of the Harmattan didn't bother me much. The seeds were in the bag. While in Kopf's office I did get a few titles of possible interest:

Thompson, Virginia and Richard Adloff 1957

French West Africa, Stanford U. Press (saw it?)

Webster, C. C. and P. N. Wilson 1966

Agriculture in the Tropics (Paperback)

English Language Book Society and Longmans

Colby, Leslie S. 1956

An Introduction to the Botany of Tropical Crops

Langmans 3rd printing 1962

Bodard, Marcel 1962

Contribution a l'étude systématique du genre cola en Afrique occidentale

Annales de la Faculté des Sciences de l'Université

De Dakar Année 1962 – Tome 7

(Morphology, cytology, geography etc.)

Hiked back roundabout way to see a bit of Lagos & waited for news of Webster. About 4:00 pm the phone rang & they told me the second flight from Kaduna was cancelled on account of the

Jack R. Harlan Expedition No. 5: Nov 24, 1967 – March 13, 1968
West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

dust. I could have spent another day up country collecting. Still, I probably have what I came after, anyway. Chheda & I discussed the possibility of setting up a satellite Crop Evolution Lab. It just might work out in a small way & be useful and important in the long run. He wants to come to US for a short time, if we can arrange it. The nights in Lagos dull. Street lights out & I don't want to blow money on the night life, so did a laundry instead."

20 I "Hiked around town in morning to kill time. Went to Kingsway Dept. store & selected four Thorn Carvings³² & bought a plastic box to put them in. I think it will work, but they are very fragile. About noon got a message that Webster had taken off finally and not long after got a call from him in lobby. Had a rather short visit with him and received a letter from Sue. Nice.

Notes from Webster interview

In the North the millets are of two kinds – photoinsensitive, which are planted in June and harvested in August and photosensitive, which are planted in June and harvested Jan-Feb next.

The Durras come in about Samaru and are dominant at Kano.

There is lots of wild and seed sorghum in Chad area ranging from Sudangrass-looking things to cultivated types. They are a weed problem in fact.

The Ethiopian collection report is now in which is disappearing in that they should still be at it. He doesn't think they got far from Addis. We must get the report, however.

Chad, Sudan and Central African Republic not well collected, but may be a real center. This needs doing. The best time for it is late September, early Oct.³³

There is a pocket near the Plateauian Plateau Province³⁴ that may have yellow endosperm millets. They are photosensitive & somewhat crook-necked.

In the Chad area they commonly transplant sorghum in the mud when the water goes down. Called 'Masakw' & planted in late October, harvested in January.

The breeding work at Samaru has resulted in a type about half as tall as the local with heads twice the size and double the yield i.e. from 2000 lbs/ac to 4,000 lbs/ac.

The 'Mauche' of the French is shoot-fly and the reason we get no seed is the late sorghum in the south is midge.

Burton's made sterile as well as well as the Indian type are susceptible to downy mildew and more or less ??less in Africa.

³² Thorn Carvings appear to be a tourist grade of Yoruba art.

³³ In his next expedition Harlan arrives in East Africa in late September/early October, 1968.

³⁴ Not sure what the first word is, but there was a Plateau Province near the Jos Plateau in Nigeria.

Webster thinks they have a pretty good institution at Ahurelu Bello & perhaps we should develop some cooperation there. Looks like Lake Chad & eastward is a must. 'Ocha' (or Fonio) yields only about 100 lbs/ac. He wonders why they bother. Red rice is a very serious pest in Sukoto. This is also something to see another time –

Killed the aft & eve reading a detective story & did some more laundry.

- 21 I [Sunday] "For some reason a bad night & little sleep. Hiked to the Yacht Club. Saw a pik [BAD COPY, NOT SURE WHAT THIS WORD IS], looked at the Museum. Nicely done, but the Benin and Ife are had been put away because of the War. Watched a cricket match for a while & hiked back. Turned very sultry & I was dripping when I got to hotel about noon. The rooms not finished as usual. Finally they cleared out & I packed. Tied string around suitcase. Hope it holds. Looks like I'll have to take a goddamn taxi tomorrow. Dulled out the eve; the pimps & hard-sell guys make life on the streets of Lagos miserable."

Côte d'Ivoire (Jan. 22 – 30: 8 Days)

- 22 I On paying bill found I had to change \$50 due to not having the right dollar change. By the time I got to airport I had only £5 to smuggle through which cost a 10 bob bribe. Nigeria was expensive in spite of Chheda's help & mostly because of the last visit in Lagos which was useless and unnecessary. So it goes. The plane was 1 ½ hrs late coming from Accra. Finally got on with much relief & no further customs faddle. At Accra we found trouble. It seems the ground crew had stuck a ladder through a wing of the regular plane and it was still being repaired. After some wait they gave me lunch & we took off over 3 hours late in a lovely Viscount with space. Abidjan most impressive & a real contrast with Lagos. Abidjan is clean, sparkling, things are painted & swept, the stores shine, no slums in sight downtown, at least. Lots of French, lots of cars – not as bustling as Lagos but far nicer.³⁵ Hiked about for 2 hours in the eve; not a panhandler, not a pimp, no hard sell – that is unless you show an interest in the sidewalk merchandise. A wonderful relief from the tensions of Nigeria. In some ways the French have definitely done a better job than the British. Sat a while at a sidewalk café' over une bière pression³⁶ and watched the huge fruit bats fly across the darkening sky. Peace! It's wonderful."³⁷

³⁵ When I visited Abidjan in 1971, on my honeymoon, we were told that every morning the police clean the beggars off the streets of Abidjan and take them out to the outskirts to be dumped. The city leaders are trying very hard to keep Abidjan clean and they call it "the African Riviera". The beach is very nice and a lot of European and African tourists go there for the 4-star hotels and excellent beaches. HVH2

³⁶ Pressurized draft beer.

³⁷ Again, my experience was the opposite. In Sénégal, a former French colony, we saw lepers, lame and blind beggars everywhere. The poverty was appalling; but in Ghana, a former British colony, there were no beggars. Everyone was working and even singing songs. It was an amazing difference. We were told that the French, in their colonies, tried to make the native people like 'little Frenchmen' and they liked to have sidewalk cafés, but the British pretty much left the people alone. The lesson here is that one should not make sweeping generalizations based on one or two samples. Perhaps we can say that the French did better in Cote d'Ivoire than Sénégal and the

- 23 I “Went to U.S. Embassy. No mail. Found that U.K. handles Sierra Leone Visa. Went there & left passport. Bought ticket for Sierra Leone and to Bouaké round trip. Went to bank & changed \$200. Then out of Hotel Ivoire for a look at the African Art Collection & a very expensive lunch. Then to Univ. of Abidjan to the Herbarium. Great difficulty in finishing it, but finally did so. **Notes in collection book.** [M. Edward Adjanooun](#), the man in charge of Bonany & seems to have collected most of the grasses in the herbarium. A very full day, but at least action.”
- 24 I “Up early and off to airport by 7:00. Grand Hotel has a bus. Much preparation for the pending state visit of Pres. Mobutu of Congo. The plane left on time, however, & arrived at Bonoki as planned. Air Afrique car took me in. Seems all the hotel rooms all booked because of pending state visit of Pres. Mobutu. So, called M. Jacquot³⁸ on the phone and he sent chauffeur. When I got to station someone else, economist & probably from FAO, had preceded me because he didn't have time & I did. So, after lunch back to station & considerable discussion. Finally Jacquot proposed a two day excursion to Man. Dinner at the Jacquot's in eve. All very nice.”
- 25 I “Checked out by 7:00, in IRAT car, quick breakfast at Jacquot's then off with M. & Mme & son, Thierry. The route: Bouaké (A) - Tiebissou (B) – Duibo (ferry) – Bouaflé Daloa (C, Google: Kolia, Hôtel Kolia, Rte De Daloa Yamoussoukro, Côte d'Ivoire) – Gregbeu (diversion down logging trail) Duékoué (D, Google: , Duékoué) – Bangold – Man (E). **Sorghum arundinacum locally abundant, essentially the whole way. No wild rice whatsoever to be seen.** Heavy forest over quite a bit of the route & rest cult-over forest. **A curious pattern is emerging that cannot be denied – wild sorghum in West Africa is a forest species and wild rice either annual or perennial are essentially savanna species!** Strange, but that's the way it shapes up.” Rather nice little hotel at Man, but proprietor drunk a good deal. Went out to campeinent in eve to talk to a fellow who has been in Ivory Coast for 30 years. He didn't know anything about wild rice either.”
- 26 I “Went out to a little research station where IRAT has some work. **One rice plot has been cleared & used for irrigated rice for 10 years - no wild rice. Got the old-timer and went up the valley where upland rice has been grown for years. No wild rice. Lots of wild sorghum** & Penisetum which here is called 'Sissangho'. Visited an ivory workshop & had a tire repaired, ate lunch & took off for Banolié (Baoulé?). The route: **Man – Sifí ? – Seguela– Beoumi – Bouaké** and much drier than previous day, passing through some artificial savanna and some edaplu ? savanna dire to roads & shallow soil. **Passed water holes & all the ecological spots where O. barthii occurs in Haute Volta & Sénégal. No wild rice and very little sorghum** and that only in creek bottoms. **This route passes through country too dry for wild sorghum and too wet for wild rice!! No cult. sorghum seen at all.** The crops are **maize, rice**, tubers, cotton bananas, peanuts, etc. **but not sorghum & millet.** Back by 7:00 pm empty-handed but better informed. Drinks & dinner at Jacquots & finally to hotel for a welcome shower.

British did better in Ghana than Nigeria. Either way, the legacy of European colonization in Africa was very apparent in those days. HVH2

³⁸ Michel Jacquot, international expert on rice & especially African rice with IRAT

- 27 I “Up at 6:00 by habit. Hiked around until I found the covered market & took the plunge & bought 2 pieces of cloth 4 meters each. Not too happy with them, but will get more in Abidjan, also 5 gold weights for 1,100 francs. Nothing much. Packed, checked out, got seat reserved on plane. The Jacquots came to hotel and I entertained them for lunch. It was very good, pleasant & relaxed. Then a long wait & Jacquot came at 4:45, gave me two samples of rice he feels are somewhat special & took me to airport. A drink at the bar, more visiting & finally off to Abidjan. A very pleasant interlude and informative if not productive of collections. One pattern that emerges again is that production can easily be increased but the only market is for rice and peanuts. More corn, more cotton, etc. & you can't sell it. Marketing and merchandizing a bigger lack than research or know-how. At Abidjan took a 10 fr cab to Grand Hotel & the meter said 1,770, so I guess the other guy wasn't such a robber after all. It's just that expensive – but it's nice to have meters at least. The hotel gave me the old jazz about room for only one night. Had Pastis for dinner. Have to do something about the pot I have got.
- 28 I [Sunday] “Hiked to the park - very sticky and uncomfortable. Hotel now inform me I can stay after all - so unpacked & caught up on notes a bit. Not much moving on Sunday. Had a big lunch at Hotel du Park & surprised to see vast swarms of fruit bats working in broad daylight. Sacked out in aft. Did laundry. Hiked about in eve & went to a movie. Pretty bad thriller with French voices dubbed in & so to bed.” PN: “Abidjan”
- 29 I “Monday & a chance for action³⁹. At 8:00 called ORSTOM: Office Recherche Scientifique et Technique Outre-Mer Adioprodoumé B. P. 20 ph 284-45 to tell them I'd like to come out. The Directeur, M. Lue said he would set up something & call back at 2:30 – so I set out to finish the shopping. Goods by the yard, it seems, are sold only in the market, so I took a cab to the market at Treichville & bought 2 meters each of 4 prints, making a total of 16 meters which is all I think I could carry. Back to hotel & up to Hotel du Parc for lunch, then back to the Grand to wait the phone call. Promptly at 2:30 the phone rang & a female informed me (I still insist) to come at 9:00 am tomorrow. I asked about transportation, acting helpless & she said she would call back. When no one had called by 4:00 I took cab to Hotel D'Ivoire to complete purchase of African art. The mask I had selected last week was still there & after checking all the others, decided it was still the best of those* small enough to bring home. Got a few other pieces & wondered how in the world I'll ever get it all in the suitcase. Back to hotel to do more laundry, Hike & to bed. * arrow pointing to Note at top of page 71: “From the style it appears to be Gueré from the region of Man where human sacrifices were practiced until very recently.” Note added to top of page 70: “(The small figure purchased at Hotel Ivoire seems to be ATIE work – based on style of material in Musée IFAN)”

³⁹ NOTE: HE IS ALWAYS LOOKING FOR ACTION. I believe there was great loneliness the lay before, having to find something to do and yet all by himself. This is one of the trials of the profession he is in: there are times of complete solitude and that can be lonely

30 I “Since I had had no call from ORSTOM, I had fretted some over getting out there. I was informed it was 20 km and at the price of taxis here I figured it would blow all the francs CFA⁴⁰ I had left. I needn't have worried. This is the way it works. Take a 5 franc meter cab to Adjamé. Taxi Gard. This metered at 165 francs & I gave 25 fr tip, especially since he took the trouble to locate a car for 'Kilometre 17'. This is a car that leaves whenever full & carries 7-9 passengers. Different parts of the Taxi Gard are reserved for cars of different destinations. We filled up in a few minutes & took off. He dropped passengers on the way & the last got off at Kilometre 17. Me, he took on to ORSTOM & the price 150+25 tip. Amazing! Having arrived & located M. le Directeur Lue, it seems I was supposed to come Wednesday. Anyway one of us snafued. They rallied promptly, however, & I was turned over to M. Bernard Bonzon, agronomist interested in trying to solve the perpetual soil problem with grasses – primarily *Panicum maximum*. Others being studied to some extent are *Cynodon* (called *plastostophyon*, but it isn't & I'm not sure what it is), *P. purpureum*, *Tripsacum laxum*, *Setacia sphacellata*, *Brachiaria* sp. & *Melinis minutiflora*. The big study on root development is on *P. Maximum* & pineapple. They are geared to pull some 20,000 root samples / yr. Sort of mass production for washing of roots & measuring volume photometrically. A battery of rocking baskets with two screens & a jet of water. Roots collected & placed under water on plots of glass. The glass pout over a light source & light transmittance measured in contrast to a blank place of glass. All glass washed carefully before used again. Another technique for studies of infiltration, porosity, etc. A cube 1 decimeter each way is isolated – a zinc box somewhat larger set over it, then paraffin poured around it. The volume of paraffin is measured so that the volume of soil is known very exactly. The advantage of the paraffin is that the water in infiltration studies does not run down the sides, but through the soil only. Looks good. Quite a few other studies on roots & soil & what happens to stabilize organic matter & etc. All designed to solve the pesky problem of soil dehydration in the wet tropics. Had a brief visit with head of meteorology dept. – studies of potential & actual evapotranspiration. The formula of Turk⁴¹ works very well. They have some very nice & elaborate equipment to measure water loss from a saturated soil supporting *Paspalum notatum* by weighing the whole deal very accurately & continuously. Maps have been prepared of Côte d'Ivoire showing isohyets⁴² of water deficient etc. These should be published soon & we should get copies, because some of the lines seem to mark off **S. arumdinorum** very well etc. Then lunch with M. & Mme Bonzon. They remember Bob Pickett. We had a nice visit about African art etc. In aft visited briefly with M. Francis Hallé of Botany Dept. Saw herbarium & discovered a specimen labeled 'trouviée dans une ancienne rizière près de la station'⁴³ was not *Adiopodoumé* but *Fikié*. **There is *O. barthii* reported along lagumes in the south, however.** Hallé is interested especially in architecture of trees. Other work is on histology & 'tuberisation' of plants. Why do they make tubers & what controls it, etc. Visited

⁴⁰ The Central African **CFA franc**

⁴¹ Turc, L.(1954), *The water balance of soils. Relation between precipitation evaporation and flow*, Ann. Agron. 5, 491-569.

⁴² Lines on a map showing equal rainfall.

⁴³ English translation: "Found in a former rice field near the station."

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West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

the 'greenhouse' & had a long talk with Jean Pernes, who is a geneticist working on *Panicum maximum*. In West Africa it's fairly homogeneous consisting of a few apomictic clones, a few apparently sexual offspring, one hexaploid ($2n=48$) race of small importance & all the rest tetraploid ($2n=32$). As one goes to East Africa one can find pockets of great diversity (hucrocenters /) these at the foot of Kilimanjaro & another mountain, Donnany very difficult to break. Decortication, prechiel & giberellim of little value but H_2SO_4 seems to work. The plant is pseudogamos the polar is possibly fertilized, seed set is very poor despite apromixis. We MUST SEND OUR PUBLICATIONS ON PROMIXIS & ETC IN DISHANTHIUM & Dormancy in P anceps! Anyway, a very nice visit & a profitable day. M. Bonzon took me in to town & I left him with a flattening tire. I shouldn't have, but he is a young fellow & I'm not anymore. Plunged into more laundry. Hope I get caught up before I leave here. A very good day.

Other addresses of possible interest in Abidjan:

IRHO (Institute de Richerches pour les Hiriles et Oleagineux) B. P. 1001 ph 269-85

IRAC (Institut Français de Recherches Fruitierès Outre-Mer) 16 rue Alphonse-Daudé,

B.P.1740 ph 232-39

IRCA (Institut de Recherches Caoutchouc)

B.P. 1536 ph 261-54

31 | This day was reserved for me, but felt a bit rocky. Turns out I ate raw meat at the Lebanese Restaurant called l'Horizon and it, or something else, deranged the plumbing. Besides it was very humid & sticky. Getting all that stuff in the suitcase with a bad zipper worried me so much I started with that. After taking out the raincoat and Pasquereau's report, it all went in, but zipper failed & I had to work it out again. It was 9:00 & I skipped breakfast & hiked to the Musée IFAN. Rather like the one in Dakar. Well done with some very good pieces. From the style I could identify the mask I had bought as Gueré and the little figure (not Ashanti) as probably Atie. A very nice collection but not too well preserved. Back to the square & couple of beers. Searched the tent market for a cheaper version of the statuette I really wanted. Found nothing. Lunch at the Parc & back for a siesta. After evening hours had started went back to shop where the figurine I wanted was located. It turned out to be very heavy & too long to fit in the small bag. I finally bought a nice Baoulé instead. It's a good piece, but without the vigor of the other. Maybe I'll find just what I want another time. Had a couple of beers & bought some Kodachromes to partially make up for the roll I lost. Very sticky & sweaty night. Back to hotel to finish packing & a small laundry. The zipper is starting to leak again. Got a strong rope to tie it with this time.

Sierra Leone (Feb. 1 – 13: 13 days)

- 1 II “Up at 6:00 & worked on zipper until it looked fairly good. Finished the packing & set out with my camera to record a little of Abidjan. Not a good day – cloudy & extremely sticky. Still had about 1500 fr. Took a few pictures & had a beer. Back at hotel & tried to cool off before leaving. Hotel took me to airport & I tipped everyone. Blew all the money on 2 gold weights & 3 beers. Not a franc CFA left. Ghana plane about an hour late but that was expected. What wasn't expected was that when I got to Freetown I had no bags. Gone! All the things I've bought, the photos I've taken, the seeds from Ivory Coast, the trousers to my suit, etc. etc. Well, they may show up and meanwhile I have all I need. Most annoying. The hot trousers given me prickly heat. I'll be happy to move on to Europe. The airport is a remarkable distance from Freetown – long bus & ferry ride ends at Paramount Hotel where I got an expensive room, took shower & cooled a whiskey. Change \$5.00 cash at hotel & \$3.00 cash at airport.” PN: “to Freetown”
- 2 II “To US Embassy to see about contacting Njala Univ. College. Found they have no AID mission & so my letter probably never reached anyone. The receptionist called the local NVC and Ghana Airlines about my bags. Nothing. They took me down to waterfront & I filled a missing report. Back at embassy visited with Arne T. Fliflet, Economic Officer. Things gone to pot generally. He gave me an economic report and loaned me a whole bunch of papers. I went back to hotel to await developments & read the stuff. (There is a note added to the side: “Changed \$50 cash at bank.”) Three sociological studies appealed to me, especially one by David P. Gamble ‘Traditional Temne Beliefs and the Introduction of New Rice Varieties’ (of the relationship of witchcraft to Agronomy) too good to let go. Must get it copied. About 3:30 a man called & said the bags were in & I had better hurry because customs closes at 4:00. I hurried. Turns out they arrived in the morning and no one had the courtesy to call. Customs is a mess. First they charged over \$2.00 ‘import duty’ on two rolls of film I had declared. This made me mad. Then he said I'd have lots of trouble taking any African art out of the country, so I finally left it all with him & he is supposed to get it delivered to the plane. Hope it works. I'd hate to lose it now. After I got back to hotel – about 20 minutes after – they called & said I was to call a certain number but everyone had gone home now. If the hotel had given me the message when I came in I'd have gotten through. Probably from the Embassy about a ride to Njala. The whole place is hopeless as far as communications are concerned. Hiked up the hill in eve & the view of the city is very nice.”
- 3 II “To Embassy first thing to find out about the message. Nobody knew anything & only a man at the desk. Left materials for flight (except the three temporarily purloined) (BOTT pg 80) ... To bank & changed \$150 from letter of credit, then hiked up the hill, saw the House of Parliament building & then on up to Botanical gardens & on to Forah Bay College⁴⁴. Then I ran down a botanist named Singh & looked at herbarium (Notes in other book). A hot, hot hike up & down those hills. Back by 1:30 shower, beer & lunch, siesta. Was starting out in eve & wet. Fliflet again. He confirmed that Embassy contacted Njala and that Karnes was coming in early in the

⁴⁴ Forah Bay was founded in 1827 and is the oldest college or university in West Africa.

week & probably the garbled message was for me. Also he had seen a NUC landrover at the hotel in the morning. Could be they were waiting for me & I was hiking up the hill. So it goes. UTA flies to Paris only once a week on Wednesdays so I set up for the 14th. Must contact the customs man by 12 or 13 at latest. Also an attempt to get a reservation at the Slavia.”

- 4 II “Hiked over to King Tom Power Station, etc. **Collected the volunteer sorghum and that’s about all.** Very hot & humid. In eve out to Fliflet’s for drinks with a crew of fish scientists that had come in town studying tuna, etc., but held up by bad gyro & other troubles. Back to hotel & to bed. Contacted by Roger Browne who will take me to Njala.”
- 5 II “Visited R. Browne & wife (Lori) over breakfast, packed & went to Embassy. Everything arranged finally & I was to await departure in eve. So checked out, lunched with some of the fish crew & waited until ca 4:30 & we got off arriving after dark. “Roland Weibel’s took me in, but the Browne’s fed me that night. Tired.” PN: “to Njala”
- 6 II “To office (admin.) by 7:30 but nothing much to do. Much discussion over how to get me to Rokupr. Nothing settled. Went to work in herbarium – better than the one at Forah Bay. Notes in other book. **After lunch hiked through to swamp with Roland & finally collected a little weed rice.** **Later out with Roger Browne got a better population near Mano.** After super to the Boston’s (Anim. Husb.) for home – much doughnuts – to bed by 10:00”
- 7 II “To admin bldg. & hiked down through student projects early, cool & fresh tropical morning. Then to herbarium & finally met Dr. Cole who runs it. His assistant, Mr. Bobo came with Roland & me to Kassewe forest reserve (Google: Kasewe Forest Reserve, approx. 120 km to the NE of Freetown). Much hot & sweaty hiking in forest & across streams – very nice, **but no sorghum & no rice.** Finally back by 2:30. Much talk about Rokupr & finally decided Roland would take me up tomorrow. That settled, spent rest of aft with Boston about livestock possibilities, which are considerable. Lots of waste products wasted – **rice bran** – palm kernel cakes – peanut? Cobe? (fish meal) , etc. Great amount being exported & actually re-imported for poultry feed. Feeding & marketing real potential. Forage a big bottleneck for beef & milk is not drunk, so no dairy. A bit of capital, a favorable government & a lot of things would move. PN: “interview w Boston”
- 8 II “Up a bit after 5:00 & off by 6:30 in huge ponderous & rattly Chevrolet Carryall. The road surprisingly good, however, after all the talk – essentially paved to Port Loko & washboardy [laterite](#) the rest of the way which is only ca. 40 miles. Ferry had almost no wait so we arrived before noon. Dr. Will is a Sierra Leonean & acting director. Nice chap but I’m afraid lives in a dream world. Full of all sorts of impractical suggestions. He is a soils man & a Dos Gupta is plant physiologist & that is all the professional staff at the moment. **They said glaberrima are scattered in sativas⁴⁵ as a mixture & wild rice a serious weed & that unharvested fields were downstream.** **In aft, therefore, we hired a launch & went downstream to Matko (?) 7 miles to talk to a man about a government launch who might take me to Freetown (they said) Nothing**

⁴⁵ Sativa is oats. Is this what he is seeing?

they said was confirmed. No *Glaberrima* in the sativas (They said later this was only in upland rice). No weed rice in fields (They said later this was only in certain areas far off). The farther downstream we got the more complete the harvest – we should have merely crossed the river or gone upstream. (They said later that the unharvested rice was way down around the bend where you had to wait for high tide to cross a channel & it took a full day to get there). The man they said might take me to Freetown said the launch was completely unfit for open sea & it would take two days anyway, because of crossing the channel. What our rice experts failed to say was that *O. barthii* occurs on the station itself. Anyway we have known sites but no seeds from Port Loko, Matho (?) and Rokupr for *O. barthii* and they do say it is abundant and a serious pest some places. Aside from being completely misled, it was a delightful trip down the river. Lovely landscapes, people harvesting, stacking, threshing, (close to Rokupr ?) winnowing. Witches-off signs in fields etc. Tide here some 6-7 feet & high tide in rainy season completely floods all the rice lands twice a day. In dry season it looks like it would flood some of it, the tide mark on the mangrove being just about bank high. The Rokupr station on a lovely site & rather good facilities. 9 residences, shop, dryer, work houses, laboratories, offices etc. but nothing going on now but Will & Dos Gupta. Roland is a fussbudget & often seems addled⁴⁶. I wonder if he is ill or has he always been that way. We heated cans & boiled water in residence No. 1 & got to bed early." PN: "to Rokupr" ? (Google: Rokupr)

- 9 II "Rained in night. I got up at 6:30 as agreed but when Roland was still sleeping at 7:30 I woke him. Breakfast, to office & some chit-chat with Will & Dos Gupta. They gave me seed of two *glaberrima* & that is our entire collection for Rokupr. Anyway took off in a cool, fresh morning with the dust laid out the corrugations softened somewhat. Longer wait at ferry this time, but got on the second load & down to mile 47 where Roland left me & took a bus (7) there were 26 of us in a microbus, but it really wasn't bad at all & rather interesting. A couple of Peace Corps boys joined us part way. The fare (off the record) was 50¢ S. L. I then took cab to Brookfields Hotel to try it out and it is a so-so rest house & will do for a couple of days to rest the budget, but it is too far from town without a car. Visited with British public accountant at the bar. Says the hotel is running a large gross loss, let alone net loss & he is checking on it. Thinks the bar man is making 300£/mo. by selling on his own without ringing it up on the register. He has been doing this sort of work for 13 years in Africa but seems a bit of a crook himself. He says if you ever go to Kenya (and Kenya has everything a man could want) go to the Tea Hotel at Kericho, Kenya – one of the best in the world." PN: "to Freetown"
- 10 II "A day more or less shot. Much laundry & hikes morning and evening. Wrote up progress report & that's that."
- 11 II [Sunday] "Hiked out to the beach – with a ride part of the way & hiked all the way back. Hot & tiring, but no doubt good for me. Took some pictures & found *S. arundinaceum* ? at long last. It certainly is not abundant here & may have been introduced, but it fits the forest region. Dull washing caught up on laundry.

⁴⁶ Addled: not able to think clearly.

- 12 II “Moved to Paramont. Checked with Mr. Decker at U.S. Embassy & made date for tomorrow to see customs & mail the field clothes. Checklist UTA & they have a reservation for me at the Slavia all according to plan so far, but enforced idleness makes me nervous. I'd like to get on with the job or learn how to loaf.”
- 13 II “With the Deckers to customs. The bag still there & we got it out with instructions that it be delivered to Lungi airport. Tomorrow is the moment of truth & I have no choice but to trust them. Mailed field clothes by parcel post & didn't even insure it. I'll have to trust them, too, but it's less important. The clothes have had a lot of use. More loafing and reading & so the day passed. Have bought a couple of 'lomolés'⁴⁷. If things don't work out, I'll flog the hell out of them.”

Paris (Feb. 14 – 20: 6 Days)

- 14 II “All laundry done; everything packed, bills paid & last currency changed. Bus time finally arrived & nice trip by Gerry etc. to Lungi. Some anxious moments when they couldn't seem to locate the bag, but it turned up in time & I repacked, cleared & boarded. The flight most interesting, apparently about straight to Malaya – Madvel – Paris axis over Guinea, Mali (near Sénégal border) Mauritania, western tip of Algeria, Morocco, Spain, France, the forest was crossed in no time, the artificial & true savanna took a little longer, but the western Sahara went on for hours. What an incredibly empty place! Rocks, gravel & sand, striated by wind & fissured by faults criss-crossing the area. Nothing, nothing, nothing. Finally, it got cloudy as we approached the Mediterranean climate zone. Mountains & hills appeared & a little snow could be seen on the Atlas & then the sea with lots of boats & then the clouds closed in completely. Flew over thunderstorms with lightening & finally it cleared close to Paris and the most beautiful sight of a city at night I've ever seen. You could make out the Arc de Triomphe, Places de la Concorde, *Champs-Élysées*, etc. Landed at the Le Bourget & aboard the formalities in less time than it takes for the bags to arrive from the plane. Nobody cared what was in the bags. Civilization! It's wonderful! Bus to the Evalide and a cab to the Slavia & they even had my reservation! A nice room & bath in the old style and at a reasonable price. My lomolé⁴⁸ is looking after me very well. By then it was 10:00 pm local time. Two bréree pression & to bed.”
- 15 II “To Jardin des Plantes first off signed in & waited a while for M. Bosser (pronounced Bossere for some reason). He set me up promptly & I started on *Oryza* (Notes in other book). Knocked off at Noon, had a cheese sandwich & a vin rouge, recovered a bit & back from 2-6:00 pm & just finished *Oryza*. Not much really but some confusion as to whether I actually got *O. permetata* or *O. eischermgei* {Google: *O. eichingeri*} & I missed *O. brachyantha* in Sénégal. That's the trouble of not doing the herbarium first. Ate up ca 40 francs for supper. It was great & for once

⁴⁷ Don't know what this thing is. Tried all kinds of combinations of letters to find something on the Internet, but could not.

⁴⁸ Is this some kind of magic thing?

the stomach didn't bother much & I slept well. Got out all my African goodies to look at them & they are all there. Not a bad collection, but I was a fool not to get the Dogon rain-prayer figure."

16 II "Back to the Herbarium & spent the whole day on sorghum without quite finishing. I still can't tell *S. arundinaceum* from *S. verticilliflora*. Had a little visit with Brosser about *Cynodon* & met famous Jacques-Felix⁴⁹; both very congenial people & sympatique to our work. May arrange an interview the Porterès next week. Went to movie & heard 'The Sound of Music' in French. A good movie & the dub-in rather nice. Out after midnight & good sleep again. The stomach is improving rapidly. Ate at the place with the buttoner paper and you can do fairly well for \$2.00 after all."

17 II "Got letters written home & to Clayton. Took metro to Opera & changed \$200 at Am. Express – the only bank in Parish open on Saturday, I'm sure. To Notre Dame & got shut out. Turned out later that the Archbishop of Paris had died & there was a full house service. Browsed the book stalls, had a cheese sandwich again & went out to Musée de l'Homme. This time went through the African material very carefully. The bulging forehead & tubular eyes masks are labeled WOBÉ & since I have seen the term CUERÉ-WOBÉ I guess that is more correct. Also the statistics given for flint technology are as follows:

	<u>cutting surface</u>
<i>Pre-acheulian</i> [some 100's of 1000's of years]	1 kg ⇔ 10 cm
Acheulian [Say 250,000 yrs B.P.]	1 kg ⇔ 40 cm
<i>Moustarian</i> [Say 50,000 years B.P.]	1 kg ⇔ 2 M
Upper Paleolithic [ca 20,000 yrs B.P.]	1 kg ⇔ 15 M
Mesolithic [ca 10,000 yrs B.P.]	1 kg ⇔ 70 M

In eve to another movie about a mad man ca 1890 psychedelic colors simply amazing and rather glorious, but a sad story."

18 II [Sunday] "Up a bit late & off to mass at Notre Dame. Very cold & uncomfortable. More of the mass in Latin than I thought, but impressive & a good choir. Then a coffee & pretzel & took metro to Chateau Rouge & hiked to Sacre Cour to see the end of a mass there. This one more in French, even the transubstantiation ceremony – altar out & all that. In some ways more impressive & certainly more comfortable than the N. D. Then a pleasant, but cold walk down through the Montmartre & all the activity even on Sunday to the opera where about everything seemed closed, so took metro to Hotel to warm up & rest. Laundry & wrapped up seeds for mailing in eve. PN: "COLD",

⁴⁹ Found a H. Jaque-Felix who wrote two books in French about the plants of Cameroon & Gabon, 1983.

- 19 II “Interview with M. Roland Porterès⁵⁰. He lived 20 years in Africa and 20 years in Paris, traveling extensively. Is setting up “Crop Evolution Lab” at Versailles, where he will have fields, greenhouses, etc. Will study all the millets incl. Pennisetum collecting all the typical root crops in Nouvelle-Calédonie⁵¹ for a serious study on them, Taro, yams, etc. from all over the world to be assembled there. He has immense collections of rice, millet, sorghum, coffee at the lab & has assembled vast amounts of literature and a huge card file on ethnobotany. It is a big & ambitious program. He will later study Solanaceae⁵² cult forms. There are four centers of pearl millet. 1) West Africa, 2) Tchad, 3) Upper Nile (Sudan), 4) East Africa (Kenya & Tangan.) Indian pearl millet definitely from #4. The glaberrima were domesticated in the ancient Bouale du Niger & started with floating types. Glaberrima came to Nigeria-Chad late. *O. barthii* is recently introduced on the coasts of Gulf of Guinea & even in Central America. Glaberrima is naturalized in El Salvador & elsewhere in C. A., brought by slaves & escaped glaberrima always within the confines of *O. breviligulata*. Here & there it has been modified by *O. barthii* & can get wide open panicle from it. The variability of *O. barthii* at Richard Tolls he says is normal & you never get hybrids with sativa [Remains to be checked]. There are wild fonios⁵³. The sorghum picture is very complex & he isn't saying much about it. He says you always get a genetic nucleus of primitive forms that is very stable & hard to crack genetically. Pristine populations are related & integrated and stable as populations. They are molded & modified by specific human cultures often through semi-religious beliefs & practices. Special vars. of rice are grown for ceremonial purposes only in some places (e.g. Bali), some never eaten; some eaten only on special occasions. *O. barthii* is a semi-sacred plant in parts of W. Africa. On coffee he works w. the Institute in Ivory Coast. The man knows a hell of a lot about ethnobotany. Gave me 2 copies of each publ. passed out because Americans never read European literature & one coy is for the library. (I think we have them)⁵⁴ Afternoon in herbarium freezing to death & looking at Pennisetums that are in a mess. It was raining when I left & continued most of night. Ate at the butcher paper.”
- 20 II “Had called M. J. Leconte⁵⁵ at IRAT yesterday [TRE(mbley) – 3490⁵⁶] & arranged for 9:30. So, went out by Metro & bus & arrived on time. He had just gotten back last Wed. from a major confr. in Nigeria. Much talk about the ‘dégénéré’ millets. I think he calls them ‘Gibra’. He has taken seed of these & grown them out & recovered occasional cult. types. There he selects & has two populations he is trying to purify so he can make crosses & work out heredity. At present they are about 85% one kind & 15% the other. A very curious genetic system & could

⁵⁰ M. Roland Porterès (Professor at the Musée national d'histoire naturelle de Paris) has studied and written on the agricultural revolution in Africa. See: “General History of Africa: Methodology and African prehistory” by Jacqueline Ki-Zerbo, Unesco, Chapter 27 and other publications.

⁵¹ New Caledonia, in the South Pacific.

⁵² nightshades

⁵³ Fonio is the term for two cultivated grains in the *Digitaria* genus which are notable crops in parts of West Africa. The grains are very small. (Wikipedia)

⁵⁴ Roland Porterès wrote a chapter in Harlan's book “Origins of African Plant Domestication”, 1976.

⁵⁵ I could not find much on this man. He seems to have only one paper which was referenced.

⁵⁶ This appears to be a telephone number.

well be independent of introgression. Really not much out of the conversation except to express my appreciation and to request copies of extracts of M. Haddad's report. The one on sorghum & millet of Niger – Est was by S. Dumont, not IRAT & they do not have it, but it has been published in past in Agronomic Tropicale. Left 11:00ish hiked through Bois de Vincennes to metro and got off at Palais Royale to get wrapping materials for all that paper Porterès gave me. Got suitable stuff of Lauvre Dept. Store but lost ½ hr looking for string. Went out to Gobelins & found it in a little hole-in-the wall store. Wrapped all of Porterès plgs. One of mine in two pkgs. & mailed them. To herbarium for windup. Saw rest of Pennisetum & said good-by to Bossier. Hiked the town a bit. Packed & left suitcase & +/- squared away for Brussels.

Belgium (Feb. 21 – 24: 3 Days)

- 21 II “Up early raining. Metro to Gare du Nord⁵⁷ even at 6:30 the metro very crowded so took long way around rather than risk stack-up at transfer Chatolet⁵⁸. Got ticket & found train no trouble & nice, comfortable ride to Brussels, where we were unloaded at Gare du Sud instead of Midi. Sat out in rain for a room & got one second try at Clemenceau. Not bad. After lunch set out in rain for Jardin Botanique. Got somewhat lost but finally worked out the deal. Train # 62 goes right past the room and the herbarium should be easy. A Mr. Liben, is in charge of the African Herbarium & he set me up the afternoon on cynodon; lots of *C. aethropicus* in the Congo – maybe it should be *C. congoleusis*?
- 22 II “Streetcar # 62 worked fine. All day in Herbarium. Finished Cynodon, *Oryza*, *Sorghum* & took quick look at Pennisetum. Still can't tell *S. ar* from *S. vert*. There may not be a difference except in adaptation. Dull, but useful day. Snowing & miserable.
- 23 II “Back to Herbarium & did Cynodon in the general herbarium. Changed two *C. arcustum* & used identification labels for the first time. Nothing exciting. Finally looked up Liben & thanked him & took off in the snow. Saw Art Museum – collection of the low country Renaissance & that's all. Had sandwich & a hair cut & saw the Cathedral St. Michel Nice integrated, wall lit by large clear window above. Lower glass quite good some late and some earlier – mostly 16th C or later, although cathedral started 12th C. Yellow & red brilliant, blues not so goo. Vaulting very plain no bossing to speak of. Choir plain, confessionals rather nice. I baroque. Outside piers on one side different from other but otherwise interpreted outside interesting but too cold to look at in. Walked home in show & warmed up on cognac.
- 24 II “Walked about in the cold looking for a present to use up my last Belgian Francs. Couldn't find anything suitable & bought a small box of cigars instead. Checked out & went to station. Cold. Went into bar & drank beer for a place to warm up. Finally train ready & got on. Uneventful to Paris, but snow very pretty on the trees, etc. At Paris took metro to Care du Lyon. Freezing. Located in a restaurant near a heater & wrote to Ralph Cump & home, but hope I got them mailed. Seemed like an endless wait, but eventually train came in. I got on near compartment,

⁵⁷ A major transit station in Paris: North Station

⁵⁸ This may be Place du Châtelet at the heart of Paris

good meal on diner, but it burned up the rest of my French Francs. Anyway, on through the night.”

Italy (Feb. 25 – 28: 3 Days)

- 25 II (Sunday) Woke up in Italy (Florence) & some sun! Came to Firege⁵⁹ right on time. Walked about for a little looking for a hotel & tried the Ascot about 1 ½ blocks from station. Seems fine room & bath for about 4.50. Strictly tourist grade. Got a little map & started hiking. Located lots of things, but museums closed by 1:00 pm on Sunday. Saw cathedral & Baptistery. The famous Ghiberti Doors being repaired! What a disappointment. Window shopped on the bridge & all that. Shower, laundry & dinner.”
- 26 II “Located the Erbario Coloniade from phone book. No trouble. Right next to Church of San Marcos a San Guido. Moggi, Assistant and Curator, showed me where & I went to work. Notes in other book. More window shopping over noon hour & back to work until 6:00. Dinner, shower, more laundry. Rainy & disagreeable. Sunday was nice. Bought 3 pieces of costume jewelry I had selected from window.”
- 27 II “To Herbarium & essentially finished by noon. They said aft was holiday & closed. I guess it was Mardi Gras. The streets are covered with confetti & the little tykes are dressed in costumes. Anyway went straight to Uffizi (Museum) and was completely absorbed & overwhelmed for 2 hours. Tremendous! Simply tremendous! Tried the Medici Palace; it was closed, so back to hotel for a rest. Then tried the Medici Chapels; closed, so went to church of Sante Marie da Kovella. Most impressive but Spanish chapel closed. Lots to see tomorrow! Apparently missed a Mardi Gras parade along the river – about 1” deep in confetti for the kiddies. But miserably cold & back to hotel to thaw a little.”
- 28 II “What a day! Rugged. Set out about 8 am. Nothing open yet, of course, but churches. In due course saw the Medici Chapel, Convent and Museum of San Marco, the Academy Calley with the real David, went by to thank Prof. Moggi. He was not in so went to Shunk Croce & saw real Giotto in a church where he actually painted them. Also tombs of Galileo & Michelangelo, a quick lunch & then to Pitti Palace & see that dreadful junk. There were Batisellis, Barngias, Titans, Van Dykes, Rubens & etc. mixed in with horrid stuff & the walls so plastered you couldn’t really see anything. The museum of Treasures a bit better. Then museum of Modern Art awful. In the whole expanse of canvas, two pictures show art & there were Pissaros. On way have stripped at Spanish chapel of S. Maris Norella, but by then had stopped looking & really saw nothing at all. I was really bushed. Recovered enough to go back & blow my liras on shopping, a good dinner & to bed. The wind had died down so it didn’t feel so cold. I was cheated some because lots of things closed off, but what I did do was tremendous. The best was the Angelic (Beato) miniature, the Glittos, the real David and the unfinished Michal Aylos, the Titians Botticelles & etc. at the Pittim. A good day, but exhausting.”

⁵⁹ At Hotel Florenca

Switzerland (Feb. 29 – March 1: 1 Day)

- 29 II “Up in the middle of the night & off by 5:15. Didn’t really need to go so early for a 6:00 train, but wanted some breakfast & time to locate everything. A lovely ride across Po valley to Milan & then up through Italian Alps. Mountains spectacular & lake lovely, through the long tunnel & then down to Lake Geneva & Lausanne. A very pleasant train ride, but I think yesterday set me back. Starting to get sore throat. It’s a wonder I’ve held out so long as cold as it is & with every body having the sniffles. Lausanne very impressive – mountainous! Too bad there is no time to really see it. Walked to nearest hotel (Terminis) - really first class compared to the touristiques I’ve been staying in.”
- 1 III “Breakfast at 7:00 & caught the 8:00 to Geneva – an express & took about an hour. Promptly located the Herbarium in the phone book & took a 50 centimes bus out. Everyone very cordial & helpful. Worked from about 9:30 to 2:30 & left. Back to station. Missed last express. Had a sandwich & wine & took last local. This one had wooden seats & took two hours, but it was a good day. Saw several interesting specimens & a bit of Switzerland.

Paris (March 2: 1 Day)

- 2 III “Up at same time & checked out. Caught the 8:16 for Paris. The Sore throat really coming on strong. A seemingly very long ride but shortened considerably by 1) a chatty French lady of some 45 or more who was very witty & had a sparkly attitude towards life, followed by 2) a lady with little girl aged 5 reasonably pretty and smart. The dialogue between them was a riot. What a child! Got to Slavinberg (*Slavenburg?*) metro & got my suitcase & the same room back. Went out to Aerogare to make reservations for tomorrow.”

London (March 3 – 11: 8 Days)

- 3 III [Sunday] “Packed all & lugged to metro, to Aerogare to airport & checked suitcases & small bag. Long wait but Orly is a nice one to wait in & off to London. There I found suitcase zipper busted again & the small bag had been opened & looted. Ca \$150 in dollars, the pin I got for Jean and the box of Dutch Cigars. I think the loss of the pin grieved me the most. It was foolish of me to leave money in the bag, but I’d done it so many times I was caught off guard this time.⁶⁰ Got room at Skyway & called Air France. They showed very slight interest. Called police. A man came over & talked to me which was something, but I expect nothing unless we still have a personal property floater.”

⁶⁰ Note he went all over Africa, but got looted when he got to civilized Europe. I have heard that the London airport is notorious for looting baggage.

Jack R. Harlan Expedition No. 5: Nov 24, 1967 – March 13, 1968
West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

- 4 III “The long bus ride to Kew. Dr. Clayton & Bar seem to be glad to see me (also Hubbard). Had a chat about West Africa & then to work on *Oryza*. Whole day on it. Notes in other book! At noon did arrange for a room at Bishop’s Hotel in Richmond.”
- 5 III “Moved out to Bishop’s which seemed to take all morning. Back to *Oryza*. Called Air France Passenger Relations & didn’t even get sympathy – Warsaw Convention, you know. In eve tried to tidy to the suitcase & zipper broke entirely. Looks like a new suitcase & me with no money.”
- 6 III “Finished *Oryza* & started sorghum. What a collection! I obviously cannot do a good job this week & since Rockefeller doesn’t want me next week, perhaps I should stay over. Must decide. Good day with Sorghum, though. Perhaps a little light is shinning on it.”
- 7 III “On with the Sorghum all day & a long one.”
- 8 III “To town in AM to get some money from Amer Express \$50 in Sterling & \$200 in Traveler’s checks, then set up flight to Boston for 13th & in message supposed to go to Sue. Tried to do a little shopping but saw nothing of interest. Back to Kew & afternoon on sorghum again.”
- 9 III “Very quiet on Saturday. Checked out *Cynodon* notations best I could & pawled through *Pennisetum*. Finally late in aft went to look at the garden. Only *Crocus* in bloom now. I had thought the only azaleas would be out. Very pleasant if chilly.”
- 10 III [Sunday] “To town . Art gallery didn’t open ‘til 2 pm on Sundays, so watched Changing of the Guard, went to services at Westminster Abby & admired the ladies’ fashions. Then to National Gallery for a couple of hours & back to Richmond. Nothing else to do, but the end is in sight.”
- 11 III “To British Museum of Natural History, South Kevsington. A very long & tedious day going through *Cynodon*, *Oryza*, sorghum & a last minute look at *Disbantium*. Did not see R. Br. *Intermedia* but didn’t have much time to look. Late, back to Richmond.”

Boston (March 12 – 14: 2 Days)

- 12 III “To Kew to say good-by and thank you. Visited with Clayton about the horrible mess in *Oryza*. It will be out in Kew Bulletin & there seems little hope of doing anything about it. The Chevalier material distributed as *O. barthii* is in fact the annual & not the perennial & that’s that. So, its *O. longistamineta* for the perennial and *O. barthii* for the annual & confusion reins. Also *Phrogmintia* ?? is now *P. arestalis*. Got back to Richmond ca. noon & about 2 hours shopping & never did find anything I really wanted. Got back & quit. Collected luggage & the long bus trip to skyway & to a big laundry. Should be ready to go.”
- 13 III “To airport & the usual. Long flight to Boston. No one there. Called Sue & took Mohawk to Providence. Good visit, called Jean & Harry.”
- 14 III “Visit with Sue & bought chime, etc. (BAD COPY, NOT SURE WHAT THIS SAYS)

Home (March 15: 1 Day)

Jack R. Harlan Expedition No. 5: Nov 24, 1967 – March 13, 1968
West Africa: Sénégal, Mali, Côte d'Ivoire, Sierra Leone, Europe (3 months and 19 days)

15 III "To Boston in car & visit with Harry. Am to Chicago and standby to Champaign. Made it in time for Spring Party but couldn't land because of weather & flew on to Decatur & taxi back. Tough break but home by 9 pm