

Itinerary

PART I

Research Trip of KATAYAMA and NAKAGAMA in 1984

- Oct. 21 (Sun.) KATAYAMA and NAKAGAMA left Kagoshima at 16:00 by NH548 and arrived in Osaka at 17:00.
- 22 (Mon.) Left Osaka 15:10 by JL052 and JL1425 via Tokyo. Overnight in air.
- 23 (Tue.) Arrived in Paris, FRANCE, at 05:40 via Anchorage, USA.
- 24 (Wed.) Left Paris at 10:10 and arrived in Montpellier at 14:59 by TGV861. Met Dr. Michel JACQUOT, IRAT.
- 25 (Thu.) Visited IRAT, Institut de Recherches Agronomique Tropicales et des Cultures Vivrières. Discussed and got the valuable informations on wild and cultivated rice in tropical Africa. Met Dr. M. JACQUOT; Dr. René MARIE, Station d'Amelioration des Plantes, INRA, Institut National de Recherches Agronomique; Dr. J. SCHWENDIMANN, Cytogenetics; Miss G. ISABELLE, Tissue Culture; Dr. de BON, Agronomy for Vegetables; Dr. P. DUBLIN, Tissue Culture, and other scientists.
- 26 (Fri.) Left Montpellier at 12:16 and arrived in Paris at 17:09 by TGV870.
- 27 (Sat.) Visited IRAT in Paris.
- 28 (Sun.) Left Paris at 11:26 and arrived in Abidjan, IVORY COAST, at 19:56 via Rome, by RK041. Proceeded to guest house of ORSTOM.
- 29 (Mon.) Visited ORSTOM, Office de la Recherches Scientifique et Technique Outre-Mer. Met Dr. G. BEZANÇON, Dr. H. HAMON. Discussed and got the valuable informations of wild and cultivated rices in IVORY COAST. Made arrangements with Dr. G. BEZANÇON for the research program. Meeting with foreign scientists at ORSTOM in the evening.
- 30 (Tue.) Left ORSTOM at 9:05 by car. Dr. G. BEZANÇON kindly accompanied with us during our scientific tour. Arrived Bouké at 15:20 via Toumodi, Tiebisson. Observed populations of cultivated rice field and upland field. Visited IDESSA. Met Dr. Koffi GOLI and discussed on upland crops.
- 31 (Wed.) Left Bouké at 8:30 and arrived in Katiola at 16:40 via Satama-Sokoura, Bassaoua, Namayondougou, Sobara, Dabakala. Observed populations of wild and cultivated rices. Collected the seeds of *Oryza breviligulata* (W83). Visited handicraft village and discussed on wild rice.
- Nov. 1 (Thu.) Left Katiola at 8:11 and proceeded to Niakara, Ferkessédougou, Korhogo via Tafiré, Badikaha, Bandama, Sinomatiali, Pamako, and backed to Katiola at 18:30. Observed populations of wild and cultivated rices. Collected the seeds of *O. longistaminata* (W84~W90) and *O. sativa*.

- 2 (Fri.) Left Katiola at 7:24 and arrived ORSTOM, Abidjan, at 17:42 via Bouké, Yamonssonkro, Zahakro. Visited IDESSA and Assorikro, Pottery village. Met Dr. Koffi GOLI. Observed and discussed with them on wild and cultivated rices and fonio, especially on *O. glaberrima*, cultivated rice. Met Dr. F. T. PASCAL, Agricultural Economist, Regional Research Station, WARDA, West Africa Rice Development Association.
- 3 (Sat.) Visited ORSTOM. Met Dr. A. GHESQUIÉRE. Observed research activities carrying in ORSTOM and experimental fields. Arranged the collected seeds and informations.
- 4 (Sun.) Left ORSTOM at 6:00 and proceeded to Abidjan Airport. Departed Abidjan at 9:23 by WT923 and arrived in Lagos at 13:05, NIGERIA. Proceeded to guest house of University of Ibadan, Ibadan, by kind arrangement of Dr. E. O. OSISANYA, Entomologist of the University. Made arrangement with Dr. E. O. OSISANYA for the research program.
- 5 (Mon.) Visited Prof. J. K. EGUNJOBI, Dean, Department of Agricultural Biology and discussed on agronomy. Left the University at 11:15 by car, which was kindly arranged by Dr. E. O. OSISANYA. Arrived at Kontagora at 19:18 via Ilora, Mokant, Ogbo, Jebba. Observed upland and lowland fields near the route.
- 6 (Tue.) Left Kontagora at 7:00 and arrived in Kaduna at 18:15 via Maiga, Tegina, Birnin Gwari. Observed populations of cultivated rices and collected the seeds of *O. sativa* and *O. glaberrima*.
- 7 (Wed.) Left Kaduna at 7:05 and arrived in Kano at 14:55 via Zaria, Chirama-wa. Collected the seeds of *O. longistaminata* and *O. breviligulata* (W25 ~ W32) and *O. glaberrima* during the course. Left Kano at 17:08 and arrived in Maiduguri at 18:48 by WT542.
- 8 (Thu.) Visited LCRI, Lake Chad Research Institute, and Mr. V. O. SAGUA, Director, Dr. B. B. WUDIRI, Assistant Director. Discussed on agricultural practices. Made arrangement with them for the research program of the following 2 days. Left LCRI at 10:00 by car, which was kindly arranged by them. Mr. MOHAMMED kindly accompanied with us. Arrived in Ngala Station, LCRI, Ngala, at 13:57. Visited Chad Basin Development Authority, Dikwa, Gajibo, Logomane. Observed populations of wild and cultivated rices. Collected the seeds of *O. longistaminata* and *O. breviligulata* (W33 ~ W35).
- 9 (Fri.) Left Ngala at 8:26 by car. Visited South Development Rice Field, Dikwa, Monguns, Baga. Arrived in Maiduguri at 17:00. Observed and collected a few seeds of *O. longistaminata* (W36) and *O. glaberrima*.
- 10 (Sat.) Left Maiduguri at 10:30 and arrived in Lagos at 14:08 by WT351 via Yola, Malam Amino, Kano. Proceeded to guest house of Nisso Iwai.
- 11 (Sun.) Stayed guest house and arranged the collected samples and informa-

tions.

- 12 (Mon.) Left Lagos at 01:59 and arrived in Nairobi, KENYA, at 08:40 by ET970. Mr. H. TAKENAKA, JICA, kindly picked us up and brought to city by car. Visited JICA, Japan International Cooperation Agency. Met and discussed on agriculture in Kenya with Mr. S. YANAI, Mr. T. NAGASHIMA and Mr. H. TAKENAKA; Permanent Secretary, Administration, Office of the President; Scientific Research Division, Ministry of Agriculture and Livestock Development. Met Drs. J. J. ONDIEKE and J. J. ADALLA, Research Officers. Discussed on research of wild and cultivated rice in Kenya.
- 13 (Tue.) Visited Department of Botany, University of Nairobi. Met Dr. A. R. D. TAYLAR. Discussed and got valuable informations on wild and cultivated rices in Kenya.
- 14 (Wed.) Left Nairobi at 10:04 by KQ604 and arrived in Mombasa at 10:44. Proceeded to Matuga from 14:00. Observed the populations and collected the seeds of *O. punctata* (W160 ~ W161). Backed to Mombasa at 17:45.
- 15 (Thu.) Left Mombasa at 8:30 and arrived in Malindi at 12:25 via Kilifi. Backed to Mombasa at 17:00 via Gedi, Kilifi. Observed wild and cultivated rices, and a lot of upland crop species.
- 16 (Fri.) Left Mombasa at 8:50 and proceeded to westward about 85 km. Observed the population of wild and cultivated rices and collected the seeds of *O. punctata* (W162 ~ W164). Left Mombasa airport at 14:05 by KQ627 and arrived Nairobi at 15:15. Called JICA and Scientific Research Division, Ministry of Agriculture and Livestock Development.
- 17 (Sat.) Visited Permanent Secretary, Administration, Office of the President; National Museums of Kenya, East Africa Herbarium and studied the dry specimens of the genus *Oryza*, which were collected all over the Africa.
- 18 (Sun.) Left Nairobi at 12:49 by KQ482 and arrived in Dar es Salaam, TANZANIA, at 14:52. Kindly picked us up by Mr. SANO, JICA.
- 19 (Mon.) Visited Tanzania National Scientific Research Council, UTAFITI. Arranged research study and got permission. Met Mr. M. H. CHING'ANG'A, Rice Research Coordination, TARO, Tanzania Agricultural Research Organization, Ifakara. Discussed and arranged research tour in Tanzania.
- 20 (Tue.) Left Dar es Salaam at 12:10 by car, which kindly arranged by Mr. CHING'ANG'A. Visited TARO office and contacted with JICA office. Arrived in Mikumi at 18:00 via Kimara, Kibara, Morogoro. Observed natural populations of wild and cultivated rices. Collected the seeds of *O. punctata* (W157~W158) and *O. longistaminata* (W14).
- 21 (Wed.) Left Mikumi at 8:02 and arrived in Ifakara at 14:10. Observed upland

- field crops in Kilombero Valley. Observed habitat of wild and cultivated rices near TARO. Took meeting and discussed on research studies of wild rice species and agriculture in Tanzania with 8 staff members of TARO.
- 22 (Thu.) Visited TARO office. Observed experimental fields of TARO. Left TARO at 11:05. Observed upland field and habitat of swampy area. Arrived in Morogoro at 17:04.
- 23 (Fri.) Visited Dr. A. N. MINJAS, Head, Crop Science and Production Development, Faculty of Agriculture, University of Dar es Salaam, and discussed on wild rice and agriculture in Tanzania. Departed the faculty at 9:18. Visited Rice Research Station near Dakawa. Collected the seeds of *O. punctata* (W159). Backed to Morogoro at 13:40.
- 24 (Sat.) Left Morogoro at 6:26 and arrived Dar es Salaam at 10:30 via Kibara, Kimara. Observed upland field crops and swampy area along the road. Visited UTAFITI, Tanzania National Scientific Research Council and brought forward the preliminary report. Called TARO office. Observed swampy area and populations of wild and cultivated rices.
- 25 (Sun.) Contacted JICA. Discussed on research project of wild and cultivated rices with Mr. CHIN'ANG'A. Left Dar es Salaam by AI232 at 23:30. Overnight in air.
- 26 (Mon.) Arrived in Bombay at 3:50. Left Bombay at 9:22 by AF182 and arrived in Bangkok, THAILAND, at 12:58. Arranged the samples collected in Africa.
- 27 (Tue.) Visited Kasethat University.
- 28 (Wed.) Visited Kasethat University.
- 29 (Thu.) Left Bangkok at 9:14 by JL702 and arrived in Hong Kong at 12:30. Left Hong Kong at 13:30 by JL758 and arrived in Kagoshima, JAPAN, at 17:00.

PART II

Research Trip of KATAYAMA, NAKAGAMA and SUMI in 1985

- Aug. 20 (Tue.) Left Kagoshima at 10:18 by JL757 and arrived Hong Kong at 13:27, via Okinawa. Left Hong Kong at 14:48 by JL701 and arrived Singapore at 18:09. Left Singapore at 22:28 by LH695. Overnight in air.
- 21 (Wed.) Arrived Bombay at 0:20. Left Bombay at 2:08 by KQ203 and arrived Nairobi, KENYA, at 05:22. Visited JICA, Japan International Cooperation Agency. Met Mr. S. KUMANO and discussed on agriculture in Kenya. Visited Dr. J. J. ADALLA, Scientific Research Division, Ministry of Agriculture and Livestock Development. Visited Permanent Secretary, Ministry of Agriculture; Permanent Secretary, Administration, Office of the President and discussed for research permission.

- Visited Embassy of Japan. Met Mr. OLOO, c/o Ahero Irrigation Research Station.
- 22 (Thu.) Visited Permanent Secretary. Administration, Office of the President, got research permission. Met Dr. J. J. ADALLA, discussed on research tour and arranged the schedule of the second trip. Visited JICA and met Mr. A. TAKAHASHI, Resident Representative, Mr. S. KAIHO, Mr. S. KUMANO, Mr. EGUCHI, c/o Ahero Irrigation Research Station.
- 23 (Fri.) Visited Embassy of Japan. Arranged the second trip with air agent. Met Japanese scientific other party and discussed on research trip and agriculture in Kenya.
- 24 (Sat.) Visited JICA. Prepare the next trip with authorities.
- 25 (Sun.) Left Nairobi at 6:12 by MD053 and arrived in Antananarivo, MADAGASCAR, at 8:55. Picked us up by officer of Embassy of Japan and Mr. YATSUOKA, Sumitomo Corporation. Got informations on agriculture in Madagascar.
- 26 (Mon.) Visited Département Recherches Agronomique; FOFIFA, Monsieur RAKOTONJANAHARY XAVIER Roland; Ministère de la Recherches Scientifique et Technologique pour le developpement and discussed on research project in Madagascar. Arranged research tour with Mon. XAVIER.
- 27 (Tue.) Met Mon. XAVIER; Mon. Razafindrakoto CHALES, General Director, FOFIFA. Discussed on agriculture and on research permission. Visited Embassy of Japan.
- 28 (Wed.) Left Antananarivo at 8:08 by car. Mon. XAVIER kindly accompanied with us during our scientific tour. Arrived at Maevatanana via Ankas, Ankazoke, Antsiafabositra. Surveyed around the Maevatanana. Observed upland crop field, population of wild and cultivated rices. Collected the seeds of *O. sativa*.
- 29 (Thu.) Left Maevatanana at 7:03 and arrived in Marovoay at 16:50 via Mangabe, turning point at Tsaratanana, crossed Bekam, Kamoro River. Observed field of wild and cultivated rices and collected the seeds of *O. sativa*.
- 30 (Fri.) Visited Mr. HARRISON, Directeur de Activitique pour le Developpement, FIFABE, Marovoay. Observed and discussed on activities of the office and agricultural practices in this areas. Met Dutch agronomist. Observed new scheme of irrigation project in large scale. Collected the seeds of *O. sativa*. Visited rice field sponsored by Dutch peoples.
- 31 (Sat.) Left Marovoay at 8:37 and backed here at 17:50 after visiting several sites. Observed wild rice and paddy field at Murarano. Collected the pre-matured seeds of wild rice (W1), *O. longistaminata*, and matured seeds of cultivated rice, *O. sativa*. Turned from the road to Madirovalo.
- Sep. 1 (Sun.) Left Marovoay at 8:03. Collected wild rice (W2~W5) at Ambodimadiro-

- Befanpisy, north of the junction and near Mahajanga, Mangatsa. Visited Fruits Experiment Station of FOFIFA. Arrived Marovoay at 19:52.
- 2 (Mon.) Left Marovoay at 7:09 and arrived in Maevatanana at 19:15 via Ambohimanga, Ampijoroa. Collected the pre-matured seeds of wild rice (**W6**). Observed swampy rice field.
 - 3 (Tue.) Left Maevatanana at 7:15 and arrived in Antananarivo at 17:05 via Mahatsinjo, Ankazobe, Andranvelona. Collected seeds of wild (**W7**) and cultivated rices.
 - 4 (Wed.) Left Antananarivo at 8:25 and arrived Ambatondrazaka at 17:10 via Moranianga, Marovoay, Amboasary Gara, Andaingo Gara, Vohidiala. Observed upland and lowland rice fields. Incidentally met Dr. B. B. SHAHI, International Rice Research Institute.
 - 5 (Thu.) Left Ambatondrazaka at 6:57 and backed here at 17:00. Visited Vohidiala, Morarano Chrome, Ampara Faravda, Antsapanimahozo, Anororo, west side of lac Alaotra. Collected the seeds of wild (**W8~W10**) and cultivated rice species.
 - 6 (Fri.) Left at 7:08 the hotel and backed at 18:10 to the same hotel. Visited CALA, Complexe Agronomique du lac Alaotra, FOFIFA, MRSTD. Met Directeur Mrs. Rondro HARISOA Cydie, Mr. Rabary EUGÉNE, breeder. Collected the matured (**W11**) and pre-matured (**W12~W13**) seeds of wild rice. Visited Madiorano, Imerimadroso, Antanifutsy. Visited Mr. Rabary again and discussed on the distribution of wild rice.
 - 7 (Sat.) Left Ambatondrazaka at 6:55. Visited District Office. Arrived in Antananarivo at 16:40 via Vohidiala, Andaingo Gara, Antsary Gara, Marovoay, Moramanga. Observed upland and lowland rice fields.
 - 8 (Sun.) Surveyed around the Antananarivo. Observed upland field and rice fields. Visited Mon. XAVIER and Mrs. Ravaonoro SIMONE. Discussed on distribution of wild rice in Madagascar.
 - 9 (Mon.) Visited IBPGR. Observed, measured, checked the seeds collected during the scientific tour in Madagascar with Mrs. SIMONE. Visited Sumitomo Corporation, National Geographical Research Office. Met Mon. XAVIER and prepared the preliminary report and permission of seed transfer. Visited several sections concerned on agricultural statistics. Visited Dr. SHAHI and discussed rice production and general agriculture in Madagascar.
 - 10 (Tue.) Held seminar on wild rice by Dr. T. C. KATAYAMA at FOFIFA. Survey around Antananarivo on agricultural practices. Visited Mr. RAKOTONDRASENJA, Department de Recherches Agronomiques.
 - 11 (Wed.) Visited Ministère de la Recherches Scientifique et Technologique pour de developpement. Got authorization letter of seeds transfer via Mr. RAKOTONDRASENJA.
 - 12 (Thu.) Visited Embassy of Japan. Left Antananarivo at 17:02 by MD738 and

- arrived in Nairobi, KENYA, at 21:00.
- 13 (Fri.) Arranged car tour. Visited Office of the President; Scientific Research Division, Ministry of Agriculture and Livestock Development. Met Dr. ADALLA, arranged scientific tour in Kenya, and asked to prepare permission of seeds transfer to Japan. Visited JICA; Sumitomo Corporation; National Agricultural Laboratory and prepare data on agriculture, climatology, soil science and statistics.
 - 14 (Sat.) Left Nairobi at 8:06 by car and arrived in Ahero at 13:00, via Rift Valley, Naivasha, Nakuru, Kipkelion, Kericho. Visited Mr. Stephen Netia OLOO in his residence, and discussed on agriculture in Kisumu area. Proceeded to Kisumu. Incidentally met Mr. TAKAHASHI, Mr. KUMANO and Mr. AKIYAMA of JICA and its relatives. Met Mr. MALINGA, Agricultural Research Office, Kisumu, and discussed on scientific tour. Surveyed surrounding Kisumu accompanied by Mr. MALINGA.
 - 15 (Sun.) Left Kisumu at 8:00 and arrived in Ahero at 8:16. Mr. OLOO kindly accompanied with us through the day. Left Ahero at 8:19 and backed to Ahero at 16:25. Surveyed upland and lowland agricultural fields at Katito, Kendu Bay, Nyanguesh, Homa Bay, Kishi. Met Mr. James Otieno OJOWI, Provincial Irrigation Unit, Kisumu, and discussed on agricultural status in this region. Surveyed *Phyrethrun* production. Backed to Kisumu at 18:56.
 - 16 (Mon.) Left Kisumu at 8:00. Mr. MALINGA kindly accompanied with us during the following 2 days. Visited Ahero Irrigation Scheme; Smallholder Rice Rehabilitation Program, Ahero; its Project Area; Pore, Ahero Kano National Irrigation Board Scheme; Small Scale Irrigation Scheme in Kano Plains, Omkeyi Swamp, Kore, Chiga; Cotton Research Station. Met Mr. R. M. OPONDO and studied information of wild and cultivated rices and upland crop kinds. Backed to Kisumu at 12:40. Left Kisumu at 13:35 and arrived Bunyala at 14:47 via Maseno, Siaya, a part of Yala swamp. Surveyed upland and lowland rice fields. Observed and collected the seeds of wild rice, *O. longistaminata* (W15) near office of Bunyala Irrigation Scheme. Backed to Kisumu at 18:07.
 - 17 (Tue.) Left Kisumu at 8:07 and proceeded to Maseno, Sega, Mundika, Nambale, Busia, Malaba, Bungoma. Visited Agricultural Office in Nambale, borders of UGANDA, Agricultural Office in Alupe. Surveyed wild rice, upland and lowland rice fields, and collected the seeds of *O. sativa*. Arrived Kisumu at 18:40 via Kakamega.
 - 18 (Wed.) Left Kisumu at 8:00, arrived Smallholder Rice Rehabilitation Program, Ahero, at 8:23. Met Mr. OLOO and discussed on agricultural practices in these area. Left the office at 8:36 and arrived Nairobi at 15:40, via Kericho, Summit, Molo, Nakuru. Observed upland crop fields and tea estates.

- 19 (Thu.) Changed car and left Nairobi at 8:03. Sent the materials to Japan. Arrived Voi at 15:40, via Saltan Hamid, Kambu, Mtitu Andei. Observed upland crop fields. Surveyed crop plant fields around Voi, Mwatate and other villages from 16:03 to 17:41.
- 20 (Fri.) Left Voi at 8:00 and arrived Mombasa at 12:37, via Samburi, Mariakani, Rabai. Observed the populations and collected the seeds of *O. punctata* (W165 ~ W167). Met Mr. Aziz ABUBAKER and Mr. Paul KIURU, Agricultural Officers of Mtwapa and Matuga, respectively. Discussed and arranged tour with us. Left hotel at 15:26. Mr. Paul KIURU kindly guided us. Observed the populations of wild rice, *O. longistaminata* (W16) and *O. punctata* (W168 ~ W171), and cultivated rices, *O. sativa*. Backed to hotel at 18:37 through ferry boat.
- 21 (Sat.) Left Mombasa at 8:00 and proceeded to northward. Passed Kilifi Ferry, Malindi, Mamburui, turning points of Kurawa, Ngao, Kibusu. Arrived Village Irrigation Project, Ministry of Agricultural Station, Minjila, Tana River Delta at 12:07. Observed lowland and upland crop field and waste swampy areas. Left Minjila at 12:37 and proceeded to Garsen. Went northward and observed savannah and wet land. Arrived Mnazini at 14:40. Observed near fields and Tana River. Collected the seeds of *O. sativa*. Backed to Minjila at 16:33. Met Mr. P. N. KAMUYU, Lower Tana Village Irrigation Programme, and discussed on agricultural status.
- 22 (Sun.) Left Minjila at 8:14. Mr. John Olima OYOLO kindly accompanied with us. Through Garsen, surveyed lowland rice field near Hewani, Wema. Collected the seeds of *O. sativa* at Hewani. Backed to Garsen at 11:54 through ferry. Met Mr. KAI, member of JOCV. Left Garsen at 13:14, and surveyed lowland fields near Ngao and over Tana River. Observed the populations and collected the seeds of wild rice, *O. longistaminata* (W17~W19). Backed to Minjila at 17:07.
- 23 (Mon.) Met Mr. J. BONAYA, Assistant Agonomist, at his office, and discussed on rice project and practices near Garsen. Left the office with him at 9:15, visited near fields. Through Hewani and Wema, arrived Saironi at 10:50, Marembu. Left Saironi at 11:13 and turned to southward. Visited Kibusu and observed upland crop fields. Surveyed near Tarasa, Ngao, Golbanti. Observed upland and swampy conditions and collected the seeds of *O. longistaminata* (W20~W24). Backed to Minjila at 16:39.
- 24 (Tue.) Visited the office of Mr. J. BONAYA, and discussed with him on agriculture, climate and government scheme near these areas. Left Minjila at 9:30, and proceeded to southward. After observations upland and lowland crop fields, especially mixed sowing system at Ngao, junctions to Kurawa, Mamburui, Malindi, Gedi, arrived Mombasa at 15:26. Met Mr. Paul KIURU and Mr. Aziz ABUBAKER, and discussed on wild rice in Kenya.

- 25(Wed.) Left Mombasa at 8:07. Proceeded to Mazeras, Mariakani, Mnyenzi, Kirumbi, Mbongo, Mtulu, Bamba. Observed dry waste land and collected the seeds of *O. punctata* (W172~W174). Passed Voi at 12:21. Arrived Nairobi at 17:11.
- 26 (Thu.) Visited Office of President; Dr. J. J. ADALLA, Scientific Research Division, Ministry of Agriculture and Livestock Development. Discussed on agriculture, rice production, wild rice in Kenya; Meteorological Department; National Agricultural Laboratory; JICA, Dr. A. R. D. TAYLAR, Department of Botany, University of Nairobi.
- 27 (Fri.) Arranged materials gotten in Kenya. Visited JICA. Got permission letter for transfer of the materials, arranged by Dr. J. J. ADALLA. Sent a part of the materials to Japan. Visited National Museums of Kenya, East Africa Herbarium.
- 28 (Sat.) Left Nairobi at 12:55 by ET961, and arrived Lagos, NIGERIA, at 17:19, via Brazzaville, CONGO. Picked us up by officer of Embassy of Japan, and sent to Ibadan by car of IITA, International Institute of Tropical Agriculture. Met Dr. N. Q. NG, Head, Genetic Resources Unit, IITA and discussed on schedule of tour.
- 29 (Sun.) Visited Dr. NG and arranged scientific tour. Observed experimental fields and laboratories of IITA. Met Dr. E. H. HARTMANS, Director General, and other members. Met Mrs. and Dr. M. YAMAUCHI, staff of IITA, and got useful informations on agricultural experiments and practices of Nigeria.
- 30 (Mon.) Prepared tour. Left IITA at 12:58 by car. Arrived Mokwa via Fiditi, Oyo, Oggomsho, Ilorin, Jebba, at 17:47.
- Oct. 1 (Tue.) Left Mokwa at 7:26. Observed wild and cultivated rice fields and collected the seeds of *O. longistaminata* (W37~W42), *O. sativa* and *O. glaberrima*. Arrived Kontagora at 17:50, via, Kudu, Kutig, Bida, Badeggi, Wushishi, Tegin, Mariga. Visited IITA, Bida, National Cereals Research Station, Rice Research Station, National Resources Fisheries Wuya Fish Farmer, Niger State.
- 2 (Wed.) Left Kontagora at 7:30 and arrived Birnin Kebbi at 15:07, via Bin Yauri, Koko. Observed populations and collected the seeds of *O. longistaminata* (W43, W45 and W46), *O. breviligulata* (W44 and W47), *O. sativa* and *O. glaberrima*.
- 3 (Thu.) Left Birnin Kebbi at 8:05 and backed here at 17:00. Observed the populations and collected the seeds of *O. longistaminata* (W48, W49 and W52), *O. breviligulata* (W50, W51 and W53), *O. sativa* and *O. glaberrima*, through the trip via Kalgo, Bunza, Kamba, Bunza again, Yarma, Dakin Gari, Kende, Koko.
- 4 (Fri.) Left Birnin Kebbi at 8:00 and arrived Sokoto at 12:30, via Argungu, Saiyiana, Yabo, Jaredi, Bodinga. Proceeded to northward at 14:00 to

- Kware and backed Sokoto at 16:20. Observed the populations and collected the seeds of *O. longistaminata* (W54, W55, W57 and W58), *O. breviligulata* (W56 and W59), *O. sativa* and *O. glaberrima*.
- 5 (Sat.) Left Sokoto at 8:45 and backed here at 16:35. Observed populations and collected the seeds of *O. longistaminata* (W60, W62, W64, W65 and W69), *O. breviligulata* (W61, W63, W66, W67, W68 and W70), *O. sativa* and *O. glaberrima*, through the tour at Raban, Wurno, Goronyo.
 - 6 (Sun.) Left Sokoto at 7:31 and arrived Zaria at 16:30, via Tureta, Talata Mafara, Maru, Funtua. Observed the populations and collected the seeds of *O. longistaminata* (W71, W73, W75 and W77), *O. breviligulata* (W72, W74 and W76), *O. sativa* and *O. glaberrima*.
 - 7 (Mon.) Left Zaria at 8:11 and arrived Jos at 13:40, via Maigana, Raha, Pambe-guwa, Yarkasuwa, Samnaka, Fuskam Mata. Observed the populations and collected the seeds of *O. longistaminata* (W78 and W79), *O. breviligulata* (W80), *O. sativa* and *O. glaberrima*. Prepared the materials and informations got during the past tour.
 - 8 (Tue.) Left Jos at 7:58 and arrived Makurdi at 14:00 via Mayir, Wamba, Akwanga, Lafia. Observed the populations and collected the seeds of *O. glaberrima* and *Digitaria* sp. (Fonio). Proceeded to eastward, Abinsi, Tyulen from 14:25 to 17:36. Observed the populations and collected the seeds of *O. longistaminata* (W81 and W82).
 - 9 (Wed.) Left Makurdi at 7:30 and arrived Lokoja at 15:32, via Aliade, Otkupo, Ankpa, Ikajekpo, Ayangba, Adogo, Okene. Observed and collected the seeds of *O. sativa*.
 - 10 (Thu.) Left Lokoja at 7:33. Observed joint area of Niger River and Benue River. Proceeded Kabba, Isanlu, Egbe, Ilofa, Omuarau, Ilorin, Ogbo-mosho, Oyo, and arrived IITA, Ibadan, at 15:36. Observed savannah and wet areas during the course. Met Mrs. and Dr. YAMAUCHI and discussed several items of agricultural practices in Nigeria.
 - 11 (Fri.) Studied the data in several items at IITA. Arranged the materials collected in this trip.
 - 12 (Sat.) Met Dr. NG, Dr. YAMAUCHI. Checked and separated the seeds of wild and cultivated rice species collected during the trip and delivered to Dr. NG. Visited Embassy of Japan. Arrived Ikeja, Lagos.
 - 13 (Sun.) Left Lagos at 10:02 by WT920, and arrived Monrovia, LIBERIA, at 11:55. Mr. M. OTSUKA, Head, JOCV, kindly picked us up.
 - 14 (Mon.) Visited WARDA, West Africa Rice Development Association. Met and discussed on agricultural status in Liberia, and on scientific tour with Dr. A. O. ABIFARIN and Mr. J. O. OLUFOWOTE, and other members of WARDA, Mr. H. MIYAISHI, and discussed on rice production in Liberia. Visited Embassy of Japan.

- 15 (Tue.) Stayed hotel in the whole day owing to a general election.
- 16 (Wed.) Visited WARDA and prepared scientific tour with assistance of Dr. ABIFARIN. Left Monrovia at 13:20 and arrived Training Centre, WARDA, Fendall. Observed Seed Laboratory, Germplasm Bank, Engineering Laboratory, Experimental Farm, Training Office. Met Mr. OLUFOWOTE and discussed on germplasm project of rice, corn, sorghum and other important crop kinds. Left Fendall and backed Monrovia at 16:07.
- 17 (Thu.) Left Monrovia at 7:28 by car. Picked Dr. ABIFARIN up at 7:50. Incidentally met Mr. E. A. BASHIR, FAO specialist. Arrived CARI, Central Agricultural Research Institute, Suakoko, via Kakata, Totoka, at 10:10. Observed research activities in CARI. Visited Cuttington University Collage. Left guest house of the college, and surveyed villages by guide of Mr. COOPER. Observed populations of cultivated rice fields of cultivated rice fields at Balama, Kpatawee, Gayea, and collected the seeds of *O. sativa* and *O. glaberrima*. Visited Chinese Farm.
- 18 (Fri.) Left Suakoko at 8:27 and arrived Ganta at 9:27. Turned at 9:55. Mr. JONJOH accompanied with us today. Surveyed Fokole, Kpond, Fokole again, Yowi, Nama, Belefuanai, Gbalatuai, St. Paul River, Gbanga. Met officer of BCADP, Bong Country Agriculture Development Program. Studied upland crop production. Collected the seeds of *O. sativa* and *O. glaberrima*. Observed population of wild rice, *O. longistaminata* at the experimental field of CARI. Backed to guest house at 17:13.
- 19 (Sat.) Left guest house at 8:06 by accompanying Mr. COOPER. Arrived Gayea again at 8:33, and left here at 9:37. Through guest house, proceeded to Gbanga, Palala, Zebay, Zowienta, and backed to guest house at 17:42. During the tour, studied upland and lowland agriculture and collected the seeds of *O. sativa* and *O. glaberrima*.
- 20 (Sun.) Left guest house at 8:40 and picked Mr. COOPER up at 9:00. Proceeded to St. John River, Kpein. Met Mr. TYLER, Seed Multiplication, Small Holder Farm. Observed upland and lowland rice fields. Arrived Ganta at 12:03. Left here at 13:16 and proceeded to southward about 17 km and backed to Ganta at 16:39. During them, observed LPMC Ganta Rice Estate, upland crop fields.
- 21 (Mon.) Left Ganta at 8:11. Proceeded to Yah River, Kahnwi. Arrived Agricultural Office, Sagleipie (Saclepe) at 10:32. Met staff members. From 11:20 to 13:18, surveyed near Kpetu by guide of the officer. Observed eastward in several times. Left 14:55 the office and arrived Ganta at 16:23.
- 22 (Tue.) Left Ganta at 7:45 and arrived Office of Small Holder Rice Project, Gbedin, at 8:36. Observed inside of the village, mainly paddy fields. Left here at 10:47 and proceeded to northeastwards. Arrived Yekepa at

- 14:15, via Sanniquellie, Gbapa. Observed cultivated rice fields. Turned here at 15:00 and arrived Ganta at 15:53. Collected the seeds of *O. sativa*.
- 23 (Wed.) Left Ganta at 8:00 and arrived Bololeewie at 11:24, via Gbedin, Sanniquellie, Gbapa, Yekepa, Ble, Lugbeyee. Observed the natural and artificial populations in mountain areas, and cultivating fields. Collected the seeds of *O. sativa* and *O. glaberrima*. Left Yekepa at 15:25 and arrived Ganta at 16:23.
- 24 (Thu.) Left Ganta at 7:46 and arrived Dabua at 9:52, via Gbedin, Sanniquellie. Observed inside and eastward of Dabua, Gboi-Darvoryee. Collected the seeds of *O. glaberrima*. Backed to Sanniquellie at 12:30. Left here at 13:20 and proceeded to southeastward about 20 km. During the trip, observed the several upland and lowland crop systems. Turned here at 15:00, and arrived Ganta at 16:13.
- 25 (Fri.) Left Ganta at 8:09 and arrived CARI, Suakoko, at 9:40. Met Director and other staff members. Got some informations of agriculture in Liberia. Left CARI at 10:35 and arrived Training Centre, WARDA, Fendall at 12:20. Met Dr. ABIFARIN and Mr. OLUFOWOTE. Measured and delivered the seeds collected during the trip to WARDA. Discussed on germplasm program in the world. Left here at 14:22 and arrived city office of WARDA, Monrovia, at 14:57. Met Mr. MIYAISHI. Arrived hotel at 15:50.
- 26 (Sat.) Arranged the materials collected during the trip.
- 27 (Sun.) Left Monrovia at 17:41 by WT910 and arrived Dakar, SENEGAL, at 21:03, via Conakry, GUINEA, Banjul, GAMBIA. Picked us up by Mr. Bakary SADIO, ISRA, Institut Sénégalais de Recherches Agricoles, Ministère de la Recherches Scientifique et Technique.
- 28 (Mon.) Visited ISRA. Met Monsieur Moctar TOURE, Directeur, and arranged scientific tour in Senegal. Visited Embassy of Japan. Visited ISRA again, and discussed on time schedule.
- 29 (Tue.) Left Dakar at 11:16 by DS221 and arrived Ziguinchor at 12:31. Arrived Research Centre of ISRA, Djibelor. Met Mr. FAYE, Rice Breeder, Acting Director and discussed on agriculture in Casamance region.
- 30 (Wed.) Mr. M. GNING, research assistant, Mr. Alfred SAMBOU, technician, accompanied with us during the trip of Casamance and GAMBIA. Left hotel at 8:45 by car. Observed on the outskirts of Ziguinchor for 96 km in a day. Studied the populations and collected the seeds of *O. longistaminata* (W91 ~ W97), *O. breviligulata* (W98), *O. sativa* and *O. glaberrima*. Backed at 16:40.
- 31 (Thu.) Left hotel at 10.06 and backed here at 16:46, after 107 km trip in suburbs of Ziguinchor. Observed the populations and collected the seeds of *O. longistaminata* (W99 ~ W102), *O. breviligulata* (W103 ~ W104), *O.*

sativa and *O. glaberrima*. Incidentally observed natural populations of *O. sativa*, *O. glaberrima*, natural hybrid plants between *O. glaberrima* and *O. breviligulata*, and between *O. breviligulata* and *O. longistaminata*.

- Nov. 1 (Fri.) Left Ziguinchor at 9:11 and proceeded to eastward. Arrived Kolda at 17:30, via Niaguis, Baghaga, Goudomp, Simbandi, Sansanquoto, Tanaff. Observed upland and wetland and collected the seeds of *O. longistaminata* (W106, W107, W108, W109, W111, W112, W114), *O. breviligulata* (W105, W110, W113, W115), *O. sativa* and *O. glaberrima*.
- 2 (Sat.) Left Kolda at 8:22 and arrived Bassè, GAMBIA, at 17:18, via Saresara, Bagadadji, Tiapa, Velingara, Douanes, Badiara. Collected the seeds of *O. longistaminata* (W116, W119), *O. breviligulata* (W117, W118), *O. sativa* and *O. glaberrima*.
- 3 (Sun.) Observed populations and collected the seeds of *O. longistaminata* (W120), *O. glaberrima* in Bassè. Left Bassè at 9:23 and passed Badiara at 9:57. Arrived Velingara at 10:15. After 37 km tour from Velingara, proceeded to northward 7 km and backed to the mainroad. At 42 km west from here, turned to northward. Arrived Kolda at 18:16 via Anambe. During the trip, observed the populations of *O. longistaminata*, *O. breviligulata*, *O. sativa* and *O. glaberrima*, and collected the seeds of *O. longistaminata* (W123, W124), *O. breviligulata* (W121, W122, W125). Moreover, collected the seeds of *O. brachyantha* (W175).
- 4 (Mon.) Left Kolda at 8:30 and arrived Ziguinchor at 18:45, via Sefa, Bounkiling, Diattacounda, Tangori, joint of Bignona. Observed the populations of *O. longistaminata* (W126, W127, W129, W131, W133, W134), *O. breviligulata* (W128, W130, W132), *O. glaberrima*. Only observed the population of *O. sativa*. Visited Research Station, ISRA, Sefa. Met Director and other members and discussed on upland and lowland agriculture.
- 5 (Tue.) Visited ISRA and met Mr. FAYE and Acting Director. Arranged the trip. Observed the activities of ISRA. Left Ziguinchor at 14:36 by the same members and car. Observed the populations of *O. longistaminata*, *O. breviligulata*, *O. sativa*, *O. glaberrima*, and collected the seeds of *O. longistaminata* (W135) and *O. glaberrima*. Arrived Banjul, GAMBIA, at 18:20, via Koba, Joboroh.
- 6 (Wed.) Left hotel at 9:17, 138 km trip in a day, south and east sides of Banjul. Observed the populations of *O. longistaminata*, *O. breviligulata*, *O. sativa*, *O. glaberrima*, and collected their seeds of the former 2 species (W136, W137, W139), (W138), near Bakau, Fajara, Jambour, Gunjur, Brikama, Tabara Banta, Kafuta. Arrived hotel at 15:32.

- 7 (Thu.) Left Banjul at 8:06. Passed border at 9:41. Arrived Kafoutine at 10:50, via Brikama, Jiberoh, Selety, Dioloulou. Left Kafoutine at 11:47 and arrived office of ISRA, Ziguinchor at 14:20, via Dioloulou again, Baila, Bignona. During the course, observed the populations of *O. longistaminata*, *O. breviligulata*, *O. sativa*, *O. glaberrima*, and collected the seeds of the former 2 species, (W140, W141), (W142). Discussed on the wild and cultivated rice species in Casamance region with staff members of ISRA. Left Ziguinchor at 17:06 by DS422, arrived Dakar at 18:45, via Cap-Skipping, Banjul, GAMBIA.
- 8 (Fri.) Visited ISRA and met Dr. TOURE and Mr. FAYE. Informed the research results obtained in Casamance region. Asked to arrange the tour to Mr. WDOYE, Head, Crop Department, St. Louis. Left Dakar at 10:25 by car, and arrived St. Louis at 13:32, via Charli, Rufisque, Thies, Louga. Visited ISRA, St. Louis. Met Mr. Moussa FALL, Director, Centre, and discussed on agriculture. Surveyed outskirts of St. Louis with Mr. FALL and German scientists. Observed the several populations of *O. longistaminata* and *O. breviligulata*. Collected a small sample seeds of *O. breviligulata* (W143). Visited Research Station of ISRA. In the evening, met Ambassador of Bergium, Mr. Wilfried GODDERIS, Rice Breeder. Discussed on germplasm work and distribution of wild rice in northern part of Senegal.
- 9 (Sat.) Prepared scientific tour assisted by Mr. GODDERIS. Visited residence of Mr. Hesman van BRANDT, Agronomist. Arranged car, equipment and others. Discussed on agriculture in Senegal with them.
- 10 (Sun.) Left St. Louis at 5:05 by car. Mr. GODDERIS and Mr. BRANDT accompanied with us. Arrived ISRA, Richard Toll at 7:00, via a junction to Rosso, MAURITANEA. Surveyed inside area and lowland rice fields. Observed the populations of *O. longistaminata*, *O. breviligulata*, *O. sativa*, *O. glaberrima*, and collected the seeds of the former 2 species, (W144, W147), (W145, W146). Left ISRA at 12:10, proceeded to eastward. Arrived Matam at 19:55, via Thile, a junction of Podor, N'Dioum, Haire Lao, Mbouba. Stayed guest house of S.A.E.D.
- 11 (Mon.) Proceeded to southward at first from 7:30. Collected the seeds of *O. breviligulata* in new project and upland *O. sativa* fields. Turned guest house, proceeded to southeast side and Bakel. Observed the populations of upland crop kinds, wild and cultivated rice species. Collected the seeds of *O. longistaminata* and *O. breviligulata* at swamps of Dianojolu. Turned to S.A.E.D. again. Left S.A.E.D. at 12:48 and arrived Nianga at 17:52, via Ourosogui, Meri, Haire Lao, N'Dioum. Observed paddy field of *O. sativa*. Collected the seeds of *O. longistaminata* (W149, W151) and *O. breviligulata* (W148, W150).
- 12 (Tue.) Surveyed Rice Project, Nianga, the populations of *O. longistaminata*,

O. breviligulata, *O. sativa* and *O. glaberrima*, and collected the seeds of the former 2 species, (W152, W154, W155), (W153, W156). Studied upland and lowland crop production systems. Left Nianga at 10:25. Through Thile, Fanae Dieri, Richard Toll, a junction of Rossa, MAURITANEA, Ross-Béthio, arrived St. Louis at 13:30. Observed populations of *O. longistaminata*. Visited Mr. FALL in his office at 15:00, informed and discussed on germplasm collection in Africa. Left St. Louis at 15:56 and arrived Dakar at 19:17, via Thies.

- 13 (Wed.) Visited ISRA. Met Mr. WDOYE, Dr. TOURE, Mr. SADIO. Got useful informations on agricultural practices and government planning on agricultural development in Senegal. Visited Embassy of Japan. Arranged the materials collected during the trip.
- 14 (Thu.) Visited ISRA. Met Mr. SADIO, informed new project of northern part of St. Louis. Met Dr. TOURE, informed the results of our scientific tour, and discussed on germplasm work in the world, agronomical problems, mutual contact with ISRA and Kagoshima University. Visited Embassy of Japan. Left Dakar at 23:57 by AF300. Overnight in air.
- 15 (Fri.) Arrived Paris, FRANCE, at 4:55.
- 16 (Sat.) Visited IRAT.
- 17 (Sun.) Left Paris at 14:20 by JL426. Overnight in air.
- 18 (Mon.) Arrived Tokyo at 16:18, via Anchorage, USA.
- 19 (Tue.) Left Tokyo at 7:59 by JL753, and arrived Kagoshima at 11:11, via Fukuoka.