Science Communication

As a national research institute, RIHN is expected to conduct exemplary science; it also must communicate its research agenda and results to the public and contribute to public awareness and discussion of contemporary environmentalism. A number of public symposia, campaigns, seminar series, and publications are designed to reach specialist and general audiences. Some of the recent activities and publications include:

The Earth Forum Kyoto and the Earth Hall of Fame Kyoto Award

The Earth Forum Kyoto invites world-renowned experts and activists to discuss the environmental and cultural basis of more responsible hu-



Award ceremony of the Earth Hall of Fame Kyoto

man societies. The Earth Hall of Fame Kyoto Award given to those who made exemplary contributions to the protection of the global environment. Organizers of the event are the International Institute for Advanced Studies, the Kyoto International Conference Centre and RIHN. The first recipients (2009) of the Earth Hall of Fame Kyoto Award were Wangari Maathai (Republic of Kenya), Syukuro Manabe (U.S.A.), and Gro Harlem Brundtland (Norway).

Kyoto Forum on Environmental Wisdom and Culture

RIHN, Kyoto Prefecture and Kyoto City co-host this forum as part of the DO YOU KYOTO? campaign, a public information campaign designed to stimulate Kyoto residents' environmental consciousness and responsible behavior in everyday life.

RIHN International Symposia

An annual event at which a range of experts discuss environmental subjects related to the research results of RIHN projects.

❖ 4th The Dilemma of Boundaries: Toward a New Concept of Catchment (October 2009)

International Symposia

Held by RIHN or in collaboration with other organizations.

- *Water, Cultural Diversity and Global Environmental Change: Emerging Trends, Sustainable Futures?, RIHN, UNESCO International Hydrological Programme and United Nations University-Institute for Advanced Studies International Symposium (October 2009)
- *Towards the Future of Civilization: 3 Science Fiction Novelists Dialogue at RIHN, RIHN Ecohistory Program International Symposium (August 2009)
- *The Cultures of Water Management: Civilizations and Environments in the Midde East, RIHN and NIHU International Symposium (March 2010)

RIHN Forum

Open to the general public and since 2004 the proceedings were published as monographs.

❖8th Linking Human Well-being and the Environment (July 2009)

RIHN Public Seminars

Held almost monthly on-site at RIHN or in the city center. *37th Global Warming and Water, Manabe Syukuro, Princeton University (February 2010)

RIHN Area Seminars

Take place in, and address specific environmental issues pertaining to, a particular part of Japan.

♣7th "Sato": Lessons from Japan's Rural Experience for the World, Kanazawa City, Ishikawa (February 2010)



The 7th RIHN Area Seminar

RIHN Seminars

Invite a range of speakers from abroad to share their expertise with the RIHN community.

*42nd NGOs, Public Participation and Dam Construction in China, Wang Yongcheng, Green Earth Volunteers (February 2010)

PUBLICATIONS

RIHN Book Series

Introduces the significance of research findings for a general audience.

- *Mizu to Hito no Mirai Kanousei (The Futurability of Water and Humankind: Looming Water Crisis), RIHN (ed.), Showado, 2009.
- *Mono no Ekkyo to Chikyu Kankyo Mondai (Transboundary Movements and Global Environmental Problems), KUBOTA Jumpei (ed.), Showado, 2009.

RIHN Library

RIHN's researchers introduce the results of their research activities to a wider audience.

- *Eurasia Noukoushi (Agricultural History in Eurasia), Book series (1-5), SATO Yo-ichiro (supervisor), KURATA Takashi (ed.) Vol. 1,3,5, KIMURA Emi (ed.) Vol. 2,4, Rinsen Book, 2009-2010.
- *Linguistics, Archaeology and Human Past in South Asia, OSADA Toshiki (ed.), Manohar Publishers & Distributors, India, 2009.





Humanity and Nature Newsletter

The RIHN Initiative for Chinese Environmental Issues (RIHN-China)

In 2007 the National Institutes of the Humanities (NIHU) established the RIHN Initiative for Chinese Environmental Issues (RIHN-China). RIHN-China is one of NIHU's six China research centers; the others are located at Waseda University, Keio University, the University of Tokyo, Toyo Bunko (the Oriental Library), and Kyoto University and individually emphasize China's economy, history, politics or society. All research centers are dedicated to the promotion of contemporary China studies in Japan and the encouragement of young scholars in this area.

RIHN-China functions as an umbrella for RIHN research projects conducting interdisciplinary investigation of China's environment. It publishes a newsletter entitled "Ten-Chi-Jin" ("Heaven-Earth-Human") featuring research summaries and excerpts, interviews, and other relevant material. RIHN-China is also build-



Ten-Chi-Jin Newsletter

ing an environmental research network to facilitate exchange between the numerous institutions, individual scholars, and other social actors involved in environmental research in China.

Each year RIHN-China identifies a key unifying topic, such as "water", "food and agriculture" or "urbanization" under which workshops and symposia are organized with Chinese colleagues. Topics for the fifth and sixth years will be, respectively, "health" and "culture". The results of the first international symposium was published in February 2009 as "Chinese Environmental Issues: Water Shortages and Development" in both Japanese (Bensey Publishing Inc.) and Chinese (Hohai University Press).

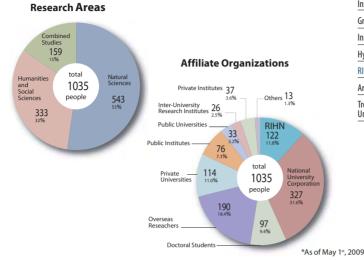


RIHN Director-General Tachimoto and Professor Man Zhi min of Fudan University exchange a Memorandum of Understanding.

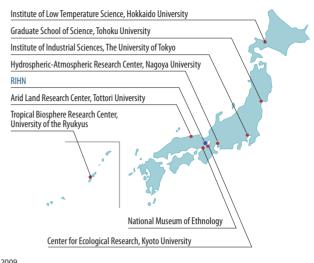


Urbanization was an early focus of the RIHN-China Initiative.

Research Affiliations

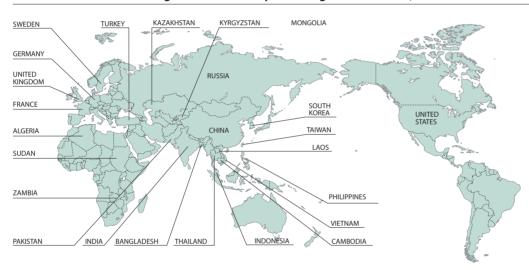


Collaboration in Japan



International Collaboration

Memoranda of Understanding and Research Cooperation Agreements (As of April 1s, 2010)



Centre National de Développement des Ressources Biologiques* (R-05)

International Centre for Diarrhoeal Disease Research (R-04) CAMBODIA

Cambodian Agricultural Research and Development Institute (H-02)

CHINA Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences (H-O1)

Fudan University* (RIHN-CHINA) Institute of Archaeology, Chinese Academy

of Social Sciences

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences (R-03) Qinghai University Hospital (D-03)

Research Center for Environmental Technology of River and Lake,

Shanghai Jiao Tong University (C-06) Xinjiang Archaeological Research Institute (H-02)

FRANCE

La Fondation Maison des Sciences de l'Homme (H-02)

GERMANY

Alfred Wegener Institute for Polar and Marine Sciences (R-03) Geoforschungszentrum Potsdam (R-03)

INDIA

Deccan College, Post-Graduate and Research Institute (H-03) Institute of Rajasthan Studies, JRN Rajasthan Vidyapeeth* (H-O3) Maharaja Sayajirao University of Baroda* (H-O3) Maharshi Dayanand University* (H-03) Rajiv Gandhi University* (D-03)

Faculty of Agriculture, Hasanuddin University (H-02) Research Center for Geotechnology, Indonesian Institute of Sciences (C-05)

ΚΔ7ΔΚΗSΤΔΝ

Institute of Archaeology (R-03) Institute of Geography (R-03) Kazakhstan Scientific Research Institute on Problems

of the Cultural Heritage on Nomads (R-03) Tethys Scientific Society (R-03)

KYRGYZSTAN

Central-Asian Institute for Applied Geosciences (R-03)

National Agriculture and Forestry Research Institute (H-02) National Institute of Public Health, Ministry of Health (R-04)

MONGOLIA

Hustai National Park Trust (D-04)

Institute of Biology, Mongolian Academy of Sciences (D-04)
Institute of Botany, Mongolian Academy of Sciences (D-04)
Institute of Geoecology, Mongolian Academy of Sciences (D-04)
Institute of Meteorology and Hydrology, Ministry of Nature and Environment (D-04)

PAKISTAN

Shah Abdul Latif University* (H-03)

University of the Punjab (H-03) **PHILIPPINES**

University of the Philippines, Los Baños (H-02)

RUSSIA

Far Eastern National University (H-04

Institute for Biological Problems of Cryolithozone* (C-07) Institute of Humanitarian Research and the Problems of the Northern Minority Peoples* (C-07)

SOUTH KOREA

Institute of Islands Culture (D-02)
Korea Research Institute for Human Settlements (C-05)

Sudan University of Science and Technology (R-05) SWEDEN

The Sven Hedin Foundation* (H-02)

TAIWAN Institute of Earth Sciences, Academia Sinica (C-05)

THAILAND

Deapartment of Groundwater Resources, Ministry of Natural Resources and Environment (C-05)

Rice Department, Ministry of Agriculture and Cooperatives (H-02)

TURKEY Cukurova University (H-02)

UNITED KINGDOM

Sainsbury Institute for the Study of Japanese Arts

USA

University of Idaho (R-03)

VIETAM

Cuu Long Delta Rice Research Institute (H-02)

Zambia Agricultural Research Institute, Ministry of Agriculture

and Cooperatives (E-04)

*MOU signed in 2009

Research rooms on the RIHN campus are designed to provide a sense of openness. The design concept is to allow implemented projects to be loosely interconnected as they occur in one large curved space 150 meters in length. The facilities help external researchers as well as RIHN research staff to meet one another, since they are designed with the maximization of shared use in mind. At the center of the main building, a library and computer room are located for the convenience of many users, and three common rooms are provided for casual discussions. On the basement floor, a cluster of fully functional laboratories has been designed with emphasis on convenience for shared use, as with the research rooms.

The separate RIHN House is a guesthouse. The assembly hall and a dining lounge located to the left of the house entrance serve as meeting spaces for the RIHN staff as well as for guests.

Appropriately for an institution researching the global environment, RIHN is housed in a tile-roofed building suited to the Kyoto landscape, where as many as possible of the trees already on the site have been

retained. Lighting and air-conditioning also employ the latest designs to minimize the building's impact on the environment. The design has won acclaim, receiving awards from the Illumination Engineering Institute of Japan, the Japan Institute of Architects, the Green Building Award from MIPIM Asia, and the Architectural Institute of Japan.



Laboratories

RIHN research projects are multidisciplinary and multi-method; in common they share the need for high quality physical observation and chemical and biological analysis of the surface environments of the earth. As a national institute, RIHN houses eighteen basement laboratories designed to address this need. There are stateof-the-art laboratories dedicated to microscopic, DNA and stable isotope analysis. Additional facilities include two fieldwork preparation rooms for storage and maintenance of observational and sampling equipment, three lowtemperature rooms for organism and ice core storage, three incubator rooms for storage of organisms requiring specific temperatures, and a clean room in which samples can be processed in a contamination-free environment.

Instruments

While individual projects make extensive use of specialized instruments, RIHN provides common access to the advanced instruments essential to contemporary environmental studies. In order to assure the proper use and care for this equipment, and to support its accessibility to the joint research of an inter-university research institute, the Division of Promotion maintains a manual of standard equipment and laboratory procedures. Stable isotope analysis has stimulated environmental science in recent years, and RIHN houses one of the most advanced laboratories for stable isotope analysis in Japan, as well as a range of support instrumentation. In order to facilitate access to the instruments, common consumable supplies are purchased collectively.

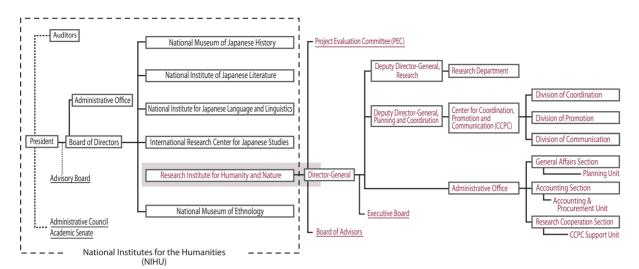
Management

Within the Center for Coordination. Promotion and Communication, the Division of Promotion manages and maintains the research facilities in cooperation with the research projects making use of them. About 200 people from 35 institutes used the RIHN laboratory facilities in fiscal 2009. As new research projects are established at RIHN each year, the Division of Promotion runs workshops several times a year in order to develop general understanding of the facilities and their procedures and enhance communication among lab workers. Laboratory procedures, instrument manuals and information relating to samples in storage are also available on the RIHN laboratory website. Beginning in 2010, the Division of Promotion will also conduct research into new technical methods in environmental studies.



Stable isotope analysis describes how things are linked to one another, where they come from and how they change in contact with other elements and through time. It is a powerful tool in the study of contemporary biogeochemical processes as well as of deep historical change. In analyzing the stable isotopes of the varying elements present in ground-, river-, lake- and other waters of a particular landscape, for example, researchers can describe its original sources as well as the route and time it took to get to its present location. Such description can illuminate how mountain forests and soils contribute to the quality of rice grown on the plains below.

Organization



Financial Information

■ Segmental Financial Information (Fiscal Year 2008)

Operating Expenses		Operating Income		
Category Am	ount (Yen in thousands)	Category	Amount (Yen in thousand	
Operating Expenses	2,207,991	Subsidy for Operation	2,170,96	
Educational/Research Aids	2,540	Contract Research, etc.	2,54	
Inter-University/Joint Research	ch 1,156,981	Contract Operations, etc.	58,68	
Outsourced Studies	64,315	Donations	6,78	
Outsourced Operations	58,689	Others	213,59	
Personnel	925,466			
General Management	164,650			
Financial Expenses	70,447			
Total Expenses	2,443,089	Total Earnings	2,452,57	
Operational Balance			9,48	

■ External Sources of Funding

(Fiscal Year 2008)

Category	Amount (Yen in thousands)
Fund for Promotion of and Industrial Collabo	71644611116
Grants-in-Aids	1411011 30,050
for Scientific Research	86,525
Donations for Research	7,520

^{*} Fund for Promotion of Academic and Industrial Collaboration is the sum of contract research and joint research expenses.



Board and Committees

Board of Advisors

Oversees personnel, planning, administration and operation of the institute

FUJII Yoshiyuki

Director-General, National Institute of Polar Research

FURUSAWA Iwao

President, Tottori University of Environmental Studies

IWASAKA Yasunobu

Professor, Kanazawa University Frontier Science

Organization

SHIRAHATA Yozaburo

Professor, Research Department, International Research Center for Japanese Studies, NIHU

WASHIDA Kiyokazu President, Osaka University

YASUNARI Tetsuzo

Professor, Hydrospheric Atmospheric Research Center,

Nagova University

YOKOYAMA Toshio

Professor, Graduate School of Global Environmental Studies,

Kyoto University

YONEMOTO Shohei

Professor, Research Center for Advanced Science and Technology, The University of Tokyo

Program Director, RIHN AKIMICHI Tomoya Deputy Director-General, RIHN Director, CCPC, RIHN SATO Yo-Ichiro Deputy Director-General, RIHN Program Director, RIHN TANIGUCHI Makoto

ABE Ken-ichi

Program Director, RIHN WATANABE Tsugihiro Program Director, RIHN

YUMOTO Takakazu Program Director, RIHN

Project Evaluation Committee (PEC)

External review of research project proposals

(Domestic)

IWASAKA Yasunobu

Professor , Kanazawa University Frontier Science Organization

MUSHIAKE Katsumi

Research Counciler, Foundation of River & Watershed Environment Management; Visiting Professor, Graduate School of Engineering, Hosei University

NAKAMURA Masami

Professor, Edogawa University; Former Senior Staff Writer, Editorial Bureau, Nihonkeizai Shimbun Inc.

OHTSUKA Ryutaro

President, Japan Wildlife Research Center

TANAKA Koji
Director, Center for Integrated Area Studies, Kyoto University

UETA Kazuhiro

Professor, Graduate School of Global Environmental Studies, Kyoto University

YAMAGATA Toshio
Professor, School of Science, The University of Tokyo

YOKOYAMA Toshio

Professor, Graduate School of Global Environmental Studies, Kyoto University

(Overseas) BELLWOOD, Peter

Professor, School of Archaeology and Anthropology, The Australian National University, Australia

CHUN, Kyung-soo

Professor, Department of Anthropology, Seoul National University, Korea

FU, Congbin
Director, START Regional Center for Temperate East Asia, China; Research Professor, Institute of

Atmospheric Physics (IAP) / Chinese Academy of Sciences (CAS), China

IKAWA-Smith, Fumiko

Former Associate Vice Principal, McGill University, Canada

LOVEJOY, Thomas E.

President, The H. John Heinz III Center for Science, Ecomonics and the Environment, USA

OHMURA Atsumu

Professor, Swiss Federal Institute of Technology, Switzerland

Executive Board

Oversees administrative operation of the institute.

TACHIMOTO Narifumi

Director-General AKIMICHI Tomoya

Deputy Director-General Director, CCPC SATO Yo-Ichiro Deputy Director-General

Program Director

ABE Ken-ichi Program Director

TANIGUCHI Makoto

Program Director WATANABE Tsugihiro

Program Director

YUMOTO Takakazu **Program Director** SATO Yoshiaki Director, Administrative Office

Emeritus Professor

NAKANISHI Masami WADA Eitaro

NAKAWO Masayoshi FUKUSHIMA Yoshihiro

Guest Professor

KINOSHITA Tetsuya

In Memoriam

Professor HIDAKA Toshitaka First Director-General of RIHN

RIHN Staff

Personnel Subsection

■ DIRECTOR-GENERAL

■ DEPUTY DIRECTOR-GENERAL, Planning and Coordination

■ DEPUTY DIRECTOR-GENERAL Research

TACHIMOTO Narifumi **AKIMICHI Tomoya** SATO Yo-Ichiro

ADMINISTRATIVE OFFICE

■ GENERAL AFFAIRS SECTION

UEMURA Tsuyoshi YAGI Kiyotaka Deputy Head General Affais Subsection

Head MATSUO Takashi Chief ISHIJI Keisuke

Head TANIKAWA Yoshitaka Chief INABA Shigeo OKAUCHI Naoko Clerk Planninng Unit

Head YAGI Kiyotaka Planning & Assessment Subsection

Head NISHIMURA Takatoshi Clerk NAKAOHJI Yu

■DIRECTOR SATO Yoshiaki

Head NISHIMURA Takatoshi NAKAOHJI Yu

ACCOUNTING SECTION

MINAMI Kenichi Head Deputy Head NAKAKUBO Takao Financial Planning Subsection

OKUMURA Azuma Chief MURASE Mamiko Facility Management Subsection

NISHIKAWA Tomonobu Head Accounting & Procurement Unit

NAKAKUBO Takao Head Accounting & Procurement Subunit YAGI Tsukasa

Chief YAMABAYASHI Nobuko

■ RESEARCH COOPERATION SECTION

SARA Toshihisa Deputy Head ISHIDA Yataro Research Cooperation Subsection Head OHI Shunii Clerk TAKATORI Yoko International Affairs Subsection TOKUDA Miki Head CCPC Support Unit Head ISHIDA Yataro CCPC Suppor Subunit

Head MIHARA Kazuaki HONDA Takayuki *As of April, 2010

Program Directors		■ Visiting Reseach Fellows		D 04 *******	M 1 (1: 1::	
ABE Ken-ichi SATO Yo-Ichiro TANIGUCHI Makoto		EVANS, Tom MERTZ, Mechtild	Geography Wood Anatomy, Ethnobotany, East Asian	R-04 FUKUSHI Yuki R-04 JIANG, Hongwei R-04 NISHIMOTO Futoshi		
WATANABE Tsugihiro YUMOTO Takakazu		NACHINSHONHOR, U	Art History	R-04 TOJO Bunpei R-05 ISHIYAMA Shun R-05 NAKAMURA Ryo	Area Studies Cultural Anthropology Cultural Anthropology	
Professors		Senior Project Researchers		H-02 HOSOYA Leo Aoi	Aoi Archaeobotany, Ethnoarchaeology	
INOUE Gen KAWABATA Zen'ichiro MOJI Kazuhiko	Human Ecology,	C-06 MINAMOTO Toshifumi C-07 FUJIWARA Junko C-07 SAKAI Toru	Molecular Ecology Cultural Anthropology Satellite Ecology Plant Ecology, Mammal	H-02 KIMURA Emi H-02 TANAKA Katsunori	Japanese Culture Histor History of Tea Culture Plant Cell Genetics, Pla Breeding, Ethnobotan	
MURAMATSU Shin	Population Health in the Tropics Architectural History,	D-02 TSUJINO Riyou D-03 YASUTOMI Natsuko	Ecology Meterology, Climatology	H-03 TERAMURA Hirofumi H-03 UESUGI Akinori	Archaeology Archaeology	
OSADA Toshiki SATO Yo-Ichiro	Urban History Linguistics Plant Genetics	R-03 CHENGZHI H-02 KURATA Takashi H-03 MORI Wakaha	Central Eurasian History Philosophy Linguistics, Sumerology	H-04 NAKAMURA Oki E-04 ISHIMOTO Yudai E-04 MIYAZAKI Hidetoshi	Archaeology Ecological Anthropolo Soil Science	
TANIGUCHI Makoto YAMAMURA Norio YUMOTO Takakazu	Hydorology Mathematical Ecology Plant Ecology	H-03 ONISHI Masayuki H-04 MAKIBAYASHI Keisuk H-04 ZEBALLOS VELARD	Linguistic Typology e Archaeology	Project Research Associates		
	Tiant Ecology		Urban Environmental Planning	(-05 OKAMOTO Takako (-06 IBUKI Naomi (-07 SHIMIZU Hiromi)	
Associate Professors HIYAMA Tetsuya	Ecohydrology	E-04 KUME Takashi E-04 LEKPRICHAKUL, T	Isotopic Soil Hydrology F hamana Environmental & Health	D-02 HOSOI Mayumi D-03 KINJO Machiko		
KUBOTA Jumpei NAWATA Hiroshi OKUMIYA Kiyohito	Hydrology Cultural Anthropology Field Medicine	■ Project Researchers	Economics	D-03 NOSE Mitsuhiro D-03 TANAKA Aiko D-04 KITAMURA Naoko		
SAKAI Shoko	Plant Ecology			R-03 YODEN Makoto		
UCHIYAMA Junzo UMETSU Chieko	Prehistoric Anthropology Resource & Environmental Economics	(-05 NAKADA Satoshi (-05 TOYOTA Tomoyo (-05 YAMAMOTO Keiko	Physical Oceanography Development Economics Geodesy Sociology, Ethics	R-05 ISHII Yume R-05 JIA, Ruichen R-05 MIZUMA Sakiko H-02 MUTO Chiaki		
Assistant Professors		(-06 ABE Akira (-06 HONJO Mie	Microbial Ecology	H-02 OKITA Hiroko		
KATO Yuzo YATAGAI Akiyo	Legal History Meterology, Climatology	C-06 TAKAHARA Teruhiko	Biophysics Chemical Ecology	H-03 ENDO Hitoshi H-03 SONODA Takeru H-04 KAMURA Nozomi		
Visiting Professors		(-07 KIM, Heonsook (-07 KOBAYASHI Nakako	Atmospheric Modeling Forest Meteorology	H-04 OTANI Megumi H-04 UCHIKADO Megur	mi	
GOTO Tamon	Chinese History, Film Making	(-08 HAYASHI Kengo	Southeast Aian Architectural History,	Research Fellow, NIHU Center for Area Studies /		
HAYASHIDA Sachiko IEDA Osamu	Global-scale Geographic Information East European Area	C-08 MATSUDA Hiroko	Urban History Southeast Aian Architectural History,	(RIHN-China)	monnentarissues	
ILDA Osailiu	Studies, East European Economic History	C-08 MEUTIA, Ami Aminah	Urban History Hydorology	MATSUNAGA Kohei	Geography	
KADA Ryohei	Agricultural Policy, Environmental Economics	D-02 ISHIMARU Eriko	Zooarchaeology, Isotope Archaeology			
KAWASAKI Masahiro KOYAMA Shuzo	Atmospheric Chemistry Archaeology	D-02 MURAKAMI Yumiko D-02 SASAKI Naoko	Archaeology Vegetation History			
MITSUTANI Takumi	Dendrochronology	D-02 SEO Akihiro	Plant Taxonomy			
SHIBAYAMA Mamoru		D-03 HAMADA Atsushi D-03 KOSAKA Yasuyuki				
Visiting Associate Professor	'S	D-03 SAKAMOTO Ryota	Public Health			
FUJITA Noboru ISHIKAWA Satoshi	Grassland Ecology Conservation Ecology,	D-04 KISHIMOTO Keiko D-04 KOIZUMI Miyako R-03 NARAMA Chiyuki	Entomology Cultural Anthropology Physical Geography			
TANAKA Hiroki	Global Fisheries Science Environmental Hydrology	R-03 WATANABE Mitsuko R-04 CAI, Guoxi	, , ,			

Center for Coordination Promotion and Communication (CCPC)

■ DIRECTOR AKIMICHI Tomoya

Professors AKIMICHI Tomoya Ecological Anthropology, Ethno-biology ABE Ken-ichi Director, Division of Communication Integrated Area Study NAKANO Takanori Director, Division of Promotion Isotope Envinonmental Studies WATANABE Tsugihiro Director, Division of Coordination Irrigation Engineering Associate Professor SEKINO Tatsuki Information Science

KOHMATSUYukihiro Ecology Geography
NILES, Daniel Geography
UYAR, Aysun International Relati
YONEZAWA Go Geoinformatics

Assistant Professors

Ecology Geography Geography International Relations, International Political Economy Geoinformatics