

## **Appendix (April 2022 - March 2023)**

## (1) 運営組織

### 1) 運営委員会

奥野 員敏	元筑波大学生命環境系教授
渡邊 紹裕	熊本大学特任教授 (京都大学名誉教授)
浅沼 修一	名古屋大学名誉教授
宍戸 健一	国際協力機構上級審議役 (~R4.9)
岩崎 英二	国際協力機構上級審議役 (R4.10~)
増永 二之	鳥根大学教授
酒井 隆子	ヴィルモランみかど株式会社アドバイザー
辻本 壽	鳥取大学乾燥地研究センター長
坪 充	鳥取大学乾燥地研究センター副センター長
山中 典和	鳥取大学乾燥地研究センター教授
恒川 篤史	鳥取大学乾燥地研究センター教授

### 2) 共同研究委員会

長田 和雄	名古屋大学大学院環境学研究科教授
斎藤 広隆	東京農工大学農学研究院教授
立入 郁	国立研究開発法人海洋研究開発機構主任研究員
且原 真木	岡山大学資源植物科学研究所教授
坂 智広	横浜市立大学理学部理学科生命ナノシステム科学研究科教授
三木 直子	岡山大学学術研究院環境生命科学学域教授
辻本 壽	鳥取大学乾燥地研究センター長
坪 充	鳥取大学乾燥地研究センター副センター長
山中 典和	鳥取大学乾燥地研究センター教授

## (1) Management Organization

### 1) Advisory Committee

Okuno, Kazutoshi	Former-Professor, School of Life and Environmental Science, University of Tsukuba
Watanabe, Tsugihiko	Project Professor, Kumamoto University (Professor Emeritus, Kyoto University)
Asanuma, Shuichi	Professor Emeritus, Nagoya University
Shishido, Kenichi	Vice President, Japan International Cooperation Agency (~R4.9)
Iwasaki, Eiji	Vice President, Japan International Cooperation Agency (R4.10~)
Masunaga, Tsugiyuki	Professor, Shimane University
Sakai, Takako	Advisor, Vilmorin Mikado Co., Ltd
Tsujimoto, Hisashi	Director, Arid Land Research Center, Tottori University
Tsubo, Mitsuru	Vice Director, Arid Land Research Center, Tottori University
Yamanaka, Norikazu	Professor, Arid Land Research Center, Tottori University
Tsunekawa, Atsushi	Professor, Arid Land Research Center, Tottori University

### 2) Joint Research Committee

Osada, Kazuo	Professor, Graduate School of Environmental Studies, Nagoya University
Saito, Hirotaka	Professor, Institute of Agriculture, Tokyo University of Agriculture and Technology
Tachiiri, Kaoru	Senior Researcher, Japan Agency for Marine-Earth Science and Technology
Katsuhara, Maki	Professor, Institute of Plant Science and Resources, Okayama University
Ban, Tomohiro	Professor, Graduate School of Nano bioscience, Yokohama City University
Miki, Naoko	Professor, Graduate School of Environmental and life science, Okayama University
Tsujimoto, Hisashi	Director, Arid Land Research Center, Tottori University
Tsubo, Mitsuru	Vice Director, Arid Land Research Center, Tottori University
Yamanaka, Norikazu	Professor, Arid Land Research Center, Tottori University

(2) スタッフ (2022年4月~2023年3月)

1) 研究スタッフ

砂漠化対処領域

専任教員

教授 山中 典和  
教授 黒崎 泰典  
准教授 谷口 武士  
准教授 木村 玲二  
助教 寺本 宗正

特命教員

特命助教 劉 佳啓  
特命助教 Ching Ping Pui (程炳沛)

客員教員

客員教授 磯部 一夫 (北京大学)  
客員教授 Levent Saylan (2022/11 ~)

兼務教員

特命教授 Toderich, Kristina  
(国際乾燥地研究教育機構)  
特命准教授 Susuka Malawska  
Malgorzata Bozena ( ~ 2022/8)

乾燥地農業領域

専任教員

教授 辻本 壽  
教授 藤巻 晴行  
准教授 安 萍  
講師 (准教授) 石井 孝佳 (2023/1 ~)

特命教員

特命助教 山崎 裕司

客員教員

客員教授 宇賀 優作  
(農業・食品産業技術総合研究機構)  
客員教授 岩田 洋佳 (東京大学)  
客員教授 Ubi, Benjamin Ewa ( ~ 2022/9)  
客員教授 IZZAT Sidahmed Ali Tahir (2022/10 ~)  
客員准教授 Hamed Ebrahimian Taleshi

兼務教員

特命准教授 Yasir Serag Alnor Mohammed  
(国際乾燥地研究教育機構)

気候変動対応領域

専任教員

教授 恒川 篤史  
教授 坪 充  
准教授 飯田 次郎

特命教員

特命助教 Fenta, Ayele Almaw ( ~ 2022/12)  
特命助教 Gelaw, Kindiye Ebabu

客員教員

客員教授 飯泉 仁之直  
(農業・食品産業技術総合研究機構)  
客員准教授 Berihun, Mulatu Liyew ( ~ 2022/10)

(2) Staff (Apr. 2022- Mar. 2023)

1) Research Staff

Division of Desertification Control

Prof. Dr. Yamanaka, Norikazu  
Prof. Dr. Kurosaki, Yasunori  
Assoc. Prof. Dr. Taniguchi, Takeshi  
Assoc. Prof. Dr. Kimura, Reiji  
Assist. Prof. Dr. Teramoto, Munemasa  
Specially Appointed Researcher  
Specially Appointed Assist. Prof.  
Dr. Liu, Jiaqi (Aug. 2021 -)  
Specially Appointed Assist. Prof.  
Dr. Ching Ping Pui  
Visiting Research Staff  
Visiting Prof. Dr. Isobe, Kazuo (Peking University)  
(Jun. 2021 -)  
Visiting Prof. Dr. Levent Saylan (Nov. 2022 -)  
Internal Visiting Research Staff  
Specially Appointed Prof.  
Dr. Toderich, Kristina (IPDRE)  
Specially Appointed Assoc Prof.  
Dr. SUSUKA MALAWSKA Malgorzata  
Bozena (- Aug. 2022)(IPDRE)

Division of Dryland Agriculture

Prof. Dr. Tsujimoto, Hisashi  
Prof. Dr. Fujimaki, Haruyuki  
Assoc. Prof. Dr. An, Ping  
Junior Assoc. Prof. Dr. Ishii, Takayoshi (Jan. 2023 -)  
Specially Appointed Researcher  
Specially Appointed Assist. Prof.  
Dr. Yamasaki, Yuji  
Visiting Research Staff  
Visiting Prof. Dr. Uga, Yusaku  
(National Agriculture and Food Research  
Organization, NARO)  
Visiting Prof. Dr. Iwata, Hiroyoshi  
(The University of Tokyo)  
Visiting Prof. Dr. Ubi, Benjamin Ewa (- Sep. 2022)  
Visiting Prof. Dr. IZZAT Sidahmed Ali Tahir  
(Oct. 2022 -)  
Visiting Assoc. Prof.  
Dr. Hamed Ebrahimian Taleshi  
Internal Visiting Research Staff  
Specially Appointed Assoc. Prof.  
Dr. Yasir Serag Alnor Mohammed  
(IPDRE)

Division of Climate Change Response

Prof. Dr. Tsunekawa, Atsushi  
Prof. Dr. Tsubo, Mitsuru  
Assoc. Prof. Mr. Iida, Jiro  
Specially Appointed Researcher  
Specially Appointed Assist. Prof.  
Dr. Fenta, Ayele Almaw  
Specially Appointed Assist. Prof.  
Dr. Gelaw, Kindiye Ebabu  
Visiting Research Staff  
Visiting Prof. Dr. Iizumi, Toshichika  
(National Agriculture and Food Research  
Organization, NARO)  
Visiting Assoc. Prof.  
Dr. Berihun, Mulatu Liyew  
(- Oct. 2022)

兼務教員  
 准教授 大谷 眞二 (国際乾燥地研究教育機構)  
 特命教授 Ayehu, Nigussie Haregeweyn  
 (国際乾燥地研究教育機構)  
 特命准教授 Ma, Shaoxiu  
 (国際乾燥地研究教育機構)  
 特命准教授 Fenta, Ayele Almaw (2023/1 ~)  
 (国際乾燥地研究教育機構)

### 博士研究員

バンク室 留森 寿士  
 乾燥地農業領域 Edet Offiong Ukpog  
 Itam Michael Okoi (~ 2022/7)  
 Nasrein Mohamed Kamal Omer  
 Mohammed Yousif Balla Abdala  
 (2022/11 ~)

日本学術振興会特別研究員

中原 浩貴

### 2) 事務部

事務長 徳長 博志  
 共同利用係長 吉川 真理  
 会計係長 大山 貴大  
 事務職員 笹田 修一  
 事務職員 田中 奈緒  
 特命専門職員 田村 昌子  
 事務補佐員 小林 幸子  
 事務補佐員 大川 順一郎  
 事務補佐員 奥山 由記子  
 事務補佐員 岡村 由美子  
 事務補佐員 米原 安都子  
 事務補佐員 留森 英眞子  
 事務補佐員 万代 純子 (~ 2022/7)  
 事務補佐員 山本 文子  
 事務補佐員 菊川 由佳  
 事務補佐員 佐久間 麻里  
 技術補佐員 上山 逸彦 (2022/10 ~)  
 技術補佐員 稲垣 公美  
 技術補佐員 中島 覚  
 技術補佐員 原田 溜奈  
 技術補佐員 東田 いづみ  
 技術補佐員 岡村 修身 (~ 2022/12)  
 技術補佐員 杉原 稔 (~ 2022/9)  
 技術補佐員 下地正之 (2022/11 ~)

### 3) 技術部 (農学系部門)

技術専門職員 加納 由紀子  
 技術専門職員 岩下 雅子  
 技術職員 藏増 亮佑  
 技術職員 沖田 総一郎

### Internal Visiting Research Staff

Assoc. Prof. Dr. Otani, Shinji (IPDRE)  
 Specially Appointed Prof.  
 Dr. Ayehu, Nigussie Haregeweyn  
 (IPDRE)  
 Specially Appointed Assoc. Prof.  
 Dr. Ma, Shaoxin (IPDRE)  
 Specially Appointed Assoc. Prof.  
 Dr. Fenta, Ayele Almaw (Jan. 2023 -)  
 (IPDRE)

### Postdoctoral Researchers

Laboratory of Arid Land Plant Resources  
 Dr. Tomemori, Hisashi  
 Division of Dryland Agriculture  
 Dr. Edet Offiong Ukpog  
 Dr. Itam Michael Okoi (- Jul. 2022)  
 Dr. Nasrein Mohamed Kamal Omer  
 Dr. Mohammed Yousif Balla Abdala  
 (Nov. 2022 -)  
 JSPS Research Fellowship for Young Scientists  
 Dr. Nakahara, Hiroki

### 2) Administrative Department

Office Manager Mr. Tokunaga, Hiroshi  
 Joint-use Section Head Ms. Yoshikawa, Mari  
 Accounting Section Head Mr. Oyama, Takahiro  
 Administrative staff Mr. Sasada, Syuiti  
 Administrative staff Ms. Tanaka, Nao  
 Specially Appointed Staff Ms. Tamura, Masako  
 Associate Official Mr. Kobayashi, Sachiko  
 Associate Official Mr. Okawa, Junichiro  
 Associate Official Ms. Okuyama, Yukiko  
 Associate Official Ms. Okamura, Yumiko  
 Associate Official Ms. Yonehara, Atsuko  
 Associate Official Ms. Tomemori, Emako  
 Associate Official Ms. Bandai, Junko (- Jul. 2022)  
 Associate Official Ms. Yamamoto, Fumiko  
 Associate Official Ms. Kikugawa, Yuka  
 Associate Official Ms. Sakuma, Mari  
 Technical Supporter Mr. Ueyama, Itsuhiko  
 (Oct. 2022 -)  
 Technical Supporter Ms. Inagaki, Kumi  
 Technical Supporter Mr. Nakashima, Satoru  
 Technical Supporter Ms. Harada, Runa  
 Technical Supporter Ms. Higashida, Izumi  
 Technical Supporter Mr. Okamura, Osami (- Dec. 2022)  
 Technical Supporter Mr. Sugihara, Minoru (- Sep. 2022)  
 Technical Supporter Mr. Shimoji, Masayuki  
 (Nov. 2022 -)

### 3) Technical Department

#### (Division of Agricultural Science)

Technical Specialist Ms. Kano, Yukiko  
 Technical Specialist Ms. Iwashita, Masako  
 Technical Official Mr. Kuramasu, Ryosuke  
 Technical Official Mr. Okida, Soichiro

### (3) 博士論文・修士論文・卒業論文

#### /Theses of Graduate and Undergraduate Courses

##### 1) 博士論文 / Doctoral Theses

United Graduate School of Agricultural Sciences

Course: Global Dryland Science

Division: Global Dryland Science

Awarding Date: September 2022

##### **Balla, Mohammed Yousif, Abdalla**

Harnessing genetic diversity of the wild emmer wheat (*Triticum turgidum* ssp. *dicoccoides*) for wheat breeding (野生二粒系コムギを利用したマカロニコムギの乾燥・高温耐性の遺伝資源拡大)

Supervisor: Tsujimoto, H.

Sub-Supervisor: Ishii, T. and Kobayashi, N.

United Graduate School of Agricultural Sciences

Course: Global Dryland Science

Division: Global Dryland Science

Awarding Date: September 2022

##### **Buyantogtokh, Batjargal**

Factors affecting sand transport flux in the Gobi Desert, Mongolia (モンゴル・ゴビ砂漠における飛砂フラックスに影響する要因)

Supervisor: Tsunekawa, A.

Sub-Supervisor: Kurosaki, Y. and Masunaga, T.

United Graduate School of Agricultural Sciences

Course: Global Dryland Science

Division: Global Dryland Science

Awarding Date: September 2022

##### **Musa, Abuelgasim Ibrahim Idriss**

Relationship of wheat yield with temperature in large irrigation areas of Sudan (スーダンの大規模灌漑地におけるコムギ収量と気温の関係)

Supervisor: Tsubo, M.

Sub-Supervisor: Kurosaki, Y. and Ibaraki, Y.

United Graduate School of Agricultural Sciences

Course: Global Dryland Science

Division: Global Dryland Science

Awarding Date:

##### **Liu, Jia**

Physiological and Biochemical Characteristics of Root Cell Wall in Suaeda salsa and Spinach oleracea under Saline Condition (塩分条件下における Suaeda salsa と Spinach oleracea の根細胞壁の生理と生化学的特性)

Supervisor: An, P.

Sub-Supervisor: Yamada, S., Masunaga, T.

United Graduate School of Agricultural Sciences

Course: Global Dryland Science

Division: Global Dryland Science

Awarding Date: September 2022

##### **Mohamed, Ikram Elsadig Suliman**

Exploiting genetic diversity in *Aegilops tauschii* to improve wheat flour quality under heat stress conditions (高温ストレスがパンコムギの種子貯蔵蛋白質の構成および小麦粉品質に及ぼす影響の解明)

Supervisor: Tsujimoto, H.

Sub-Supervisor: Tanaka, H. and Takahashi, H.

Istanbul Technical University, Graduate School,

Course: Atmospheric Science

Division: Meteorological Engineering

Awarding Date: October 2022

##### **Nilcan Altinbas**

Analysis of modeled and measured carbon exchange measured by the Eddy Covariance method on plant surface

Supervisor: Saylan, L.

Sub-Supervisor: Aslan, Z. and Caldag, B.

##### 2) 修士論文 / Master's Theses

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: September 2022

##### **Acham Columbus Erukudi**

Optimization of cultivated area in a water harvesting system with a plastic sheet and a tank in a sandy field

Supervisor: Fujimaki, H.

Sub-supervisor: Inosako, K. and Saito, T.

Graduate School of Sustainability Science

Department of Dryland Science

Awarding Date: September 2022

##### **Getnet Taye Bawoke**

Use of GRACE data to analyze groundwater storage changes in hydrogeologically contrasting areas in the Horn of Africa

Supervisor: Tsunekawa, A.

Sub-Supervisor: Haregeweyn, N. and Tsubo, M.

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

##### **Komatsu, Daiki** (小松 大騎)

Salinity management in capillary-driven automatic irrigation systems using numerical models

Supervisor: Fujimaki, H.

Sub-supervisor: An, P. and Saito, T.

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

**Matsumoto, Ryo** (松本 諒)

Satellite remote sensing of maize planting density and seedling establishment to estimate the date of sowing in South Africa (南アフリカにおけるトウモロコシの播種日推定のための栽植密度と苗立ち日の衛星リモートセンシング)

Supervisor: Tsunekawa, A.

Sub-Supervisor: Tsubo, M. and Ma, S.

Istanbul Technical University, Graduate School,

Course: Atmospheric Science

Division: Meteorological Engineering

Awarding Date: June 2022

**Merve Kizil Aydin**

Determination of the greenhouse gas (CO<sub>2</sub>) exchange on the vegetation surface by micrometeorological method

Supervisor: Şaylan, L.

Sub-Supervisor: Aslan, Z. and Caldag, B.

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

**Nakamura, Ruri** (中村 瑠璃)

Seasonal characteristics of soil respiration and CO<sub>2</sub> exchange in coastal dunes (海岸砂丘における土壌呼吸及びCO<sub>2</sub>交換に関する季節変動特性)

Supervisor: Yamanaka, N.

Sub-Supervisor: Teramoto, M. and Kinugasa, T.

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

**Tarutani, Hidesato** (樽谷 英賢)

Analysis of Oryzawheat diversity (イネコムギ (Oryzawheat) の多様性解析)

Supervisor: Tsujimoto, H.

Sub-Supervisors: Ping, A. and Ishii, T

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

**Yan, Gao** (高 燕)

Production and genetic analysis of synthetic octaploid wheat for utilize the wild species into bread wheat (コムギ多様性拡大のための新奇合成八倍体コムギの育成と解析)

Supervisor: Ishii, T.

Sub-Supervisors: Tsujimoto, H. and Ping, A.

Graduate School of Sustainability Science

Course: Dryland Science

Awarding Date: March 2023

**Yasuhiro, Sakai** (酒井 康宏)

Frost risk for grassland vegetation in Mongolia and global warming (モンゴルにおける草原植生の霜害リスクと温暖化)

Supervisor: Kinugasa, T.

Sub-Supervisor: Yamanaka, N. and Teramoto, M.

### 3) 卒業論文 / Bachelor's Theses

Istanbul Technical University, Department of Meteorological Engineering

Course: Graduate Project, Dept. of Meteorological Engineering

Division: Meteorological Engineering

Date: June 2022

**Mehmet Ceylan**

Calculation of energy fluxes of the surface by the Bowen Ratio Energy Balance method

Supervisor: Şaylan, L.

Sub-Supervisor: Kaymaz, Z. and Kocak, K.

Istanbul Technical University, Department of Meteorological Engineering

Course: Graduate Project, Dept. of Meteorological Engineering

Division: Meteorological Engineering

Date: June 2022

**Yağmur Sıla Kiliç**

Determination of climate risk indices in agriculture

Supervisor: Şaylan, L.

Sub-Supervisor: Unal Sezginer, Y., Onol, B.



ALRC's staff and students (September 26, 2022)