1. History

Laboratory

Research Center (HyARC)

for Chronological Research

May, 1949

Research Institute of Atmospherics, Nagoya University was established.

April, 1958

Cosmic-ray Research Laboratory, Faculty of Science, Nagoya University was established.

June, 1990

The Solar-Terrestrial Environment Laboratory (STEL) was established.

April, 1995

The Center for Joint Observations and Data Processing was organized.

April, 2003

The Rikubetsu Observatory was organized

April, 2004

The Geospace Research Center was established.

March, 2006

Laboratory was relocated to the Higashiyama Campus.

April, 2010

Approved as one of the Joint Usage/Research Centers.

April, 1957

The Water Research Laboratory, Faculty of Science, Nagoya University was established.

September, 1973

The Water Research Institute (WRI), Nagoya University was organized.

February, 1981

The Tandetron Accelerator Laboratory was established in the Radioisotope Research Center of Nagoya University.

March, 1982

Installation of the Tandetron Accelerator Mass Spectrometry (AMS) machine No.1 was completed.

January, 1987

Inter-University Service of 14C measurements was started with the Tandetron AMS machine No.1.

June, 1990

The Nagoya University Dating and Material Research Center was established.

March, 1997

The Tandetron AMS machine No. 2 was newly introduced.

April, 2000

The Nagoya University Center for Chronological Research was organized. The CHIME dating system was transferred from the School of Science.

April, 1993

The Institute for Hydrospheric-Atmospheric Sciences (IHAS), Nagoya University was organized.

April, 2001

The Hydrospheric Atmospheric Research Center (HyARC), Nagoya University was established.

April, 2010

Approved as one of the Joint Usage/Research Centers.

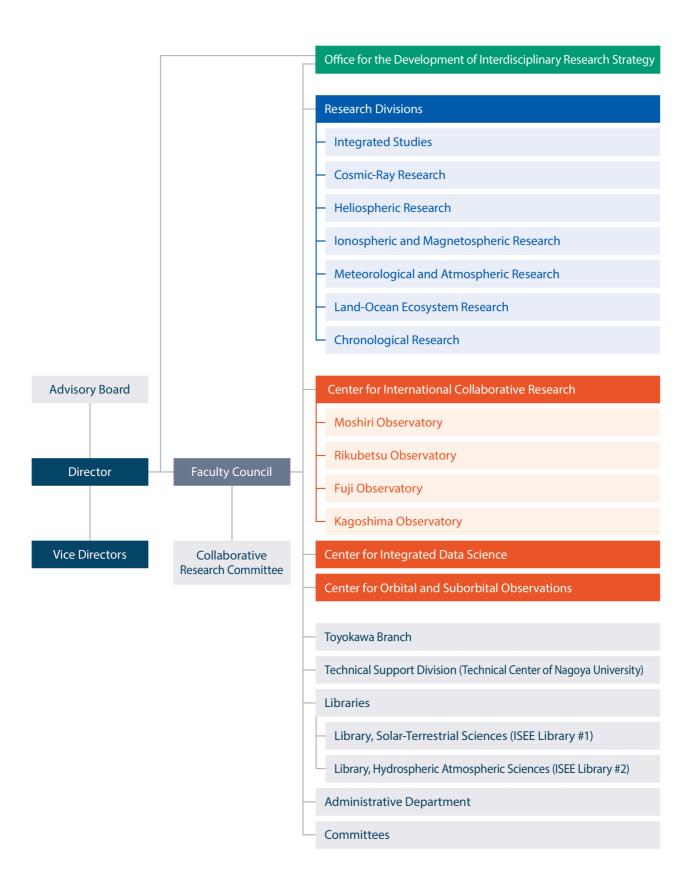
October, 2015

Institute for Space-Earth Environmental Research (ISEE), merging the laboratory and two centers, was established.

January, 2016

ISEE was approved as one of the Joint Usage/Research Centers.

2. Organization



3. Staff

April 1, 2022-March 31, 2023 Director Kanya Kusano *: Concurrent post

Vice Director Kazuo Shiokawa ▲: Left the Institute in the 2022 academic year o: Joined the Institute in the 2022 academic year

Vice Director Nobuhiro Takahashi *: Belongs to Institute for Advanced Research Section

Division for Integrated Studies

Professor Kanya Kusano Professor Munetoshi Tokumaru A Professor Yoshizumi Miyoshi (*) Associate Professor Kazumasa Iwai Associate Professor Satoshi Masuda Assistant Professor Ken-ichi Fujiki

Associate Professor Takayuki Umeda (*) Division for lonospheric and Magnetospheric Research

Assistant Professor Akimasa leda Masafumi Hirahara Professor Designated Assistant Professor Haruhisa lijima Professor Kazuo Shiokawa (*) Yoshiki Hatta o Designated Assistant Professor Associate Professor Yuichi Otsuka Designated Assistant Professor Hisashi Hayakawa * Associate Professor Satonori Nozawa Designated Assistant Professor Yumi Bamba * Associate Professor Masahito Nosé A JSPS Postdoctoral Fellowships Sandeep Kumar Associate Professor Nozomu Nishitani (*) for Research in Japan (Standard) Associate Professor Claudia Martinez-Calderon (*) JSPS Postdoctoral Fellowships Shreedevi Radhakrishna for Research in Japan (Standard) Porunakatu o Lecturer Shin-ichiro Oyama

Technical Assistant Keitaro Matsumoto ○ ▲ Designated Assistant Professor Naritoshi Kitamura o

Designated Assistant Professor Atsuki Shinbori

JSPS Postdoctoral Fellowships Shibaji Chakraborty o

Tomoo Nagahama

Division for Heliospheric Research

for Research in Japan (Standard)

Associate Professor

Division for Cosmic-Ray Research

Professor

Yoshitaka Itow

Professor Hiroyasu Tajima (*) Division for Meteorological and Atmospheric Research Associate Professor Yutaka Matsubara A Professor Akira Mizuno

Associate Professor Fusa Miyake Professor Michihiro Mochida Associate Professor Shingo Kazama (*) **

Professor Nobuhiro Takahashi (*)

** Kobayashi-Maskawa Institute for the Origin of Particles Professor Kazuhisa Tsuboki (*) and the Universe

Designated Associate Professor Kazutaka Yamaoka (*)

Lecturer Akira Okumura

Associate Professor Hirohiko Masunaga Assistant Professor Hiroaki Menjo

Associate Professor Taro Shinoda (*) Mitsunari Takahashi **Designated Assistant Professor**

Sho Ohata * Assistant Professor

JSPS Postdoctoral Fellowships Ken Ohashi OA **Assistant Professor** Taku Nakajima for Research in Japan (Standard)

Designated Assistant Professor Shinnosuke Ishizuka * JSPS Postdoctoral Fellowships Masatoshi Kobayashi

for Research in Japan (Standard) Ruichen Zhou Researcher

Designated Technical Staff Shozo Ohta Researcher Fumie Furuzawa

Technical Assistant Yasuko Ito o Researcher Gemma Mizoguchi A

Technical Assistant Ayano Nagata ○ ▲

Researcher Sonia Afsana ○ ▲

Technical Assistant Kazuhiro Furuta JSPS Postdoctoral Fellowships Yunhua Chang A

> for Research in Japan (Standard) Technical Assistant

Kazuji Suzuki (Research Support Facilitator)

Division for Land-Ocean Ecosystem Research

Professor	Tetsuya Hiyama
Professor	Joji Ishizaka (*)
Associate Professor	Hidenori Aiki
Associate Professor	Naoyuki Kurita
Lecturer	Hatsuki Fujinami
Assistant Professor	Yoshihisa Mino
Designated Assistant Professor	Masayuki Kondo ▲
Researcher	Nao Esashi
Researcher	Hironari Kanamori
Researcher	Yuto Tashiro
Researcher	Yoshiki Fukutomi
Research Institution Researcher	HanumanThu Himabindu ▲

Divison for Chronological Research

Professor	Hiroyuki Kitagawa
Professor	Masayo Minami
Associate Professor	Takenori Kato (*)
Assistant Professor	Hirotaka Oda
Researcher	Masako Yamane ▲
Research Institution Researcher	Ryusei Kuma ▲
Research Institution Researcher	Satoshi Sasaki ○
Designated Technical Staff	Masami Nishida
Designated Technical Staff	Yuriko Hibi

Office for the Development of Interdisciplinary **Research Strategy**

Office Manager • Professor	Kanya Kusano (*)
Professor	Nobuhiro Takahashi (*)
Professor	Kazuo Shiokawa (*)
Professor	Yoshizumi Miyoshi (*)
Associate Professor	Claudia Martinez-Calderon (*)

Center for International Collaborative Research

Director • Professor	Kazuo Shiokawa
Professor	Joji Ishizaka
Professor	Munetoshi Tokumaru (*) ▲
Professor	Tetsuya Hiyama (*)
Professor	Akira Mizuno (*)
Professor	Masayo Minami (*)
Professor	Michihiro Mochida (*)
Designated Professor (Cross Appointment)	K. D. Leka
Designated Professor (Cross Appointment)	Lynn Marie Kistler
Associate Professor	Nozomu Nishitani
Associate Professor	Claudia Martinez-Calderon
Associate Professor	Naoyuki Kurita (*)
Associate Professor	Satonori Nozawa (*)
Lecturer	Hatsuki Fujinami (*)
Assistant Professor	Hiroaki Menjo (*)
Designated Assistant Professor	Masafumi Shoji

Foreign Visiting Research Fellow

Jyrki Kalervo Manninen
Rangaiah Kariyappa
HajiHossein Azizi
Rumi Nakamura
Jong-Dao Jou
Po-Hsiung Lin
Pavlo Ponomarenko
Pekka Tapani Verronen
Vyacheslav Anatolevich Pilipenko

Center for Integrated Data Science

Director • Professor	Yoshizumi Miyoshi
Professor	Kazuhisa Tsuboki
Professor	Joji Ishizaka (*)
Professor	Yoshitaka Itow (*)
Professor	Kanya Kusano (*)
Associate Professor	Takayuki Umeda
Associate Professor	Takenori Kato
Associate Professor	Hidenori Aiki (*)
Associate Professor	Masahito Nosé (*)▲
Associate Professor	Satoshi Masuda (*)
Associate Professor	Hirohiko Masunaga (*)
Designated Associate Professor	Tomoaki Hori
Assistant Professor	Akimasa leda (*)
Designated Assistant Professor	Sachie Kanada
Designated Assistant Professor	Satoko Nakamura *
Designated Assistant Professor	Takuma Matsumoto ○
Designated Assistant Professor	Chae-Woo Jun
Designated Assistant Professor	YunHee Kang
Designated Assistant Professor	Atsuki Shinbori (*)
Researcher	Masaya Kato
Designated Technical Staff	Mariko Kayaba
Designated Technical Staff	Nanako Hirata
Designated Technical Staff	Asayo Maeda
Designated Technical Staff	Kingi Morikawa

Center for Orbital and Suborbital Observations

Director • Professor	Nobuhiro Takahashi
Professor	Hiroyasu Tajima
Professor	Joji Ishizaka (*)
Professor	Kazuhisa Tsuboki (*)
Professor	Masafumi Hirahara (*)
Designated Professor	Jong-Dao Jou ○▲
Designated Professor	Masataka Murakami
Associate Professor	Taro Shinoda
Associate Professor	Hidenori Aiki (*)
Designated Associate Professo	or Kazutaka Yamaoka
Assistant Professor	Sho Ohata (*)*
Designated Assistant Professor	Takeharu Kouketsu ▲
Technical Assistant	Ryuta Kiuchi ○▲

Visiting Academic Staff/Visiting Faculty Members

Shinsuke Imada
Yoshiya Kasahara
Tomo'omi Kumagai
Yoshikatsu Kuroda ▲
Yoko Kokubu ▲
Iku Shinohara
Nobuo Sugimoto
Kanako Seki
Toru Tamura ▲
Hotaek Park
Fumio Abe
Yasunobu Ogawa
Shinji Saito
Daikou Shiota
Hiroki Mizuochi
Kikuko Miyata ▲
Shoichiro Yokota
Shigeyuki Wakagi
Shun Ohishi
Yutaka Mtsumi

Foreign Visiting Cooperation Researcher

Jun. 26, 2021 – Jun. 25, 2022	Xiaolong Li	Oct. 17 – Oct. 27, 2022	Wan Hong
Apr. 1 – Oct. 31, 2022	Bindu H. Hima	Oct. 19, 2022 – Aug. 31, 2023	Rui Chen
Apr. 1, 2022 – Mar. 31, 2023	XiangXiang Yan	Oct. 26 – Nov. 16, 2022	Wee Cheah
Apr. 16 – Jul. 15, 2022	Adithya H.N.	Nov. 1, 2022 – Jan. 31, 2023	Nilesh Arvind Chauhan
May 1 – Jul. 10, 2022	Mengesha Cherkos Alemayehu	Nov. 1 – Nov. 13, 2022	Jong-Dao Jou
May 11 – Aug.15, 2022	Francesc Junyent	Nov. 10 – Dec. 5, 2022	Andrzej Zbingniew Rakowski
May 11 – Aug.15, 2022	Jim George	Nov. 12 – Nov. 23, 2022	Bruce Tsurutani
May 11 – Aug.15, 2022	Corby Tay Thompson	Nov. 12 – Nov. 26, 2022	Brian Thomas Welsch
May 11 – Aug.15, 2022	Eun Yeol Kim	Nov. 13 – Nov. 17, 2022	James Crawford
May 11 – Aug.15, 2022	Warittha Panasawatwong	Nov. 13 – Nov. 17, 2022	Ilya Usoskin
May 11 – Aug.15, 2022	Theresa Marie Lincheck	Nov. 14 – Nov. 19, 2022	Ivana Kolmašová
May 11 – Aug.15, 2022	Erin Mary Dougherty	Nov. 14 – Nov. 19, 2022	Benjamin Grison
Jun. 1 – Aug.15, 2022	Michael Monroe Bell	Nov. 14 – Nov. 19, 2022	Ulrich Taubenschuss
Jun. 11 – Aug.15, 2022	Brenda Dolan Cabel	Nov. 15 – Nov. 17, 2022	Natchimuthukonar Gopalswamy
Jun. 11 – Aug.15, 2022	Katherine Louise Ackerman	Nov. 15 – Nov. 17, 2022	Go Iwahana
Jun. 11 – Aug.15, 2022	Mya Jocelyn Sears	Nov. 18, 2022 – Feb. 15, 2023	Chukwuma Moses Anoruo
Jun. 13 – Jul. 29, 2022	Andrew Oke-'Ovie Akala	Nov. 23 – Nov. 30, 2022	Manabu Shimoyama
Jun. 24 – Oct. 25, 2022	Po-Hsiung Lin	Nov. 27 – Dec. 4, 2022	Rangaiah Kariyappa
Jun. 27 – Jul. 6, 2022	Bernard V. Jackson	Nov. 27 – Dec. 1, 2022	Wai-Leong Teh
Jul. 11 – Jul. 22, 2022	Takuya Hara	Dec. 3, 2022 – Feb. 28, 2023	Wellen Rukundo
Jul. 11 – Aug.16, 2022	Nicole Rocque Marquette	Dec. 4, 2022 – Jan. 20, 2023	Maurya Ajeet Kumar
Jul. 11 – Aug.16, 2022	Kelly Marie Nunez Ocasio	Dec. 7, 2022 - Mar. 6, 2023	Rahul Rathi
Jul. 11 – Aug.16, 2022	Chaehyeon Nam	Jan. 10 – Jan. 29, 2023	Po-Hsiung Lin
Jul. 22 – Aug.15, 2022	Venkatachalam Chandrasekaran	Jan. 31 – Mar. 1, 2023	Samuel Krucker
Aug. 4 – Aug.16, 2022	Mateo Enriq Lovato	Feb. 12 – Mar. 12, 2023	Hermann Opgenoorth
Sep. 8 – Sep.16, 2022	Amore Nel	Feb. 15 – Feb. 27, 2023	Kevin Krieger
Sep. 8 – Sep.16, 2022	John Bosco Habarulema	Mar. 31, 2023 – Mar. 31, 2024	Yaru Zhao
Sep. 8 – Sep.16, 2022	Zama Thobeka Katamzi-Joseph		
Sep. 12 – Dec.10, 2022	Onyinye Gift Nwankwo		
Sep. 24 – Oct. 5, 2022	Ulrike Maria Langematz		
Sep. 26 – Oct.12, 2022	Konstantin Schaar		
Sep. 27 – Oct. 5, 2022	Tobias Christian Spiegl		
Oct. 4 – Dec. 27, 2022	Veera Kumar Maheswaran		
Oct. 5 – Dec. 20, 2022	Pankaj Soni		
Oct. 12 – Dec. 7, 2022	Venkata Ratnam Devanaboyina		
Oct. 13 – Nov. 16, 2022	Ravindra Pratap Singh		

Technical Center of Nagoya University

Senior Technician	Akiko Ikeda
Senior Technician	Yasusuke Kojima
Senior Technician	Haruya Minda
Technician	Wataru Okamoto
Technician	Tetsuya Kawabata
Technician	Tomonori Segawa
Technician	Yoshiyuki Hamaguchi
Technician	Ryuji Fujimori
Technician	Yasushi Maruyama
Technician	Takayuki Yamasaki
Technician	Yuka Yamamoto
Assistant Technician	Takumi Adachi
Assistant Technician	Moeto Kyushima

Administration Department

Director, Administration Department	Satoshi Furuhashi ▲
General Affairs Division	
Manager, General Affairs Division	Masao Yamamori ○
Specialist, General Affairs Section	Hideaki Yano ▲
Section Head, General Affairs Section	Takamasa Sato
Section Head, General Affairs Section	Noriaki Tonouchi ○
Section Head, Personnel Affairs Section	Yohei Sato ▲
Section Head, Budget Planning Section	Mirei Miyao
Leader, General Affairs Section	Risa Oosawa o
Leader, Personnel Affairs Section	Yoshikazu Akamatsu ▲
Administrator	Honami Ishizaki ○
Administrator	Junpei Okada
Administrator	Asana Goto ▲
Administrator	Megumi Goto ▲
Administrator	Tomoka Shibata ○
Administrator	Kahori Nishi ○
Designated Supervisor	Tadashi Tsuboi ▲
Deputy Manager, Research Funding Division, Research Cooperation Department	Toshiyuki Yokoi ○

Toyokawa Branch

Designated Technical Staff	Kayoko Asano
Technical Assistant (Research Support Facilitator)	Yasuo Kato

4. Committee of Other Organizations

Committee of Other Organizations

Contact Post	Job Title	Organizations	Name of Committee / Title
Tetsuya Hiyama	Professor	International Arctic Science Committee (IASC)	Terrestrial Working Group (TWG) member
Joji Ishizaka	Professor	North Pacific Marine Science Organization (PICES)	Co-Chair of Advisory Panel for a CREAMS/PICES Program in East Asian Marginal Seas
Joji Ishizaka	Professor	Northwest Pacific Action Plan (NOWPAP)	Focal Point of Center for Special Monitoring and Coastal Environmental Assessment Regional Active Center (CEARAC)
Yoshitaka Itow	Professor	Institute of Particle and Nuclear Studies, KEK	J-Parc Program Advisory Committee member
Hiroyuki Kitagawa	Professor	Geosciences	Editor
Yoshizumi Miyoshi	Professor	EISCAT Scientific Association	Strategy Group on the Future of EISCAT member
Yoshizumi Miyoshi	Professor	Committee on Space Research (COSPAR)	Chair of Panel on Radiation Belt Environment Modeling
Yoshizumi Miyoshi	Professor	Committee on Space Research (COSPAR)	Task Group on Establishing a Constellation of Small Satellites (TGCSS) Sub-Group for Radiation Belt member
Yoshizumi Miyoshi	Professor	Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)	Bureau member
Yoshizumi Miyoshi	Professor	National Science Foundation/ Geospace Environment Modeling (NSF/GEM)	Steering Committee member
Yoshizumi Miyoshi	Professor	Japan GeoScience Union	Vice President, Space Planetary Section
Yoshizumi Miyoshi	Professor	Annales Geophysicae	Editor
Yoshizumi Miyoshi	Professor	Earth and Planetary Physics	Editor
Yoshizumi Miyoshi	Professor	Scientific Reports	Editorial Board member
Yoshizumi Miyoshi	Professor	Frontiers in Astronomy and Space Sciences	Associate Editor
Akira Mizuno	Professor	Network for the Detection of Atmospheric Composition Change	Steering Committee member (Japanese Co-Representative)
Michihiro Mochida	Professor	International Commission on Atmospheric Chemistry and Global Pollution (iCACGP)	Commission member
Michihiro Mochida	Professor	Atmospheric Environment	Editorial Advisory Board member
Kazuo Shiokawa	Professor	Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)	President
Hiroyasu Tajima	Professor	Institute of Particle and Nuclear Studies, KEK	B-factory Programme Advisory Committee member
Hiroyasu Tajima	Professor	Progress of Theoretical and Experimental Physics	Editor

Contact Post	Job Title	Organizations	Name of Committee / Title
Hiroyasu Tajima	Professor	Progress of Theoretical and Experimental Physics	Editorial Board member
Nobuhiro Takahashi	Professor	National Aeronautics and Space Administration (NASA)	Global Precipitation Measurement (GPM) Joint Precipitation Science Team (JPST) member
Nobuhiro Takahashi	Professor	National Aeronautics and Space Administration (NASA)	Aerosol and Cloud, Convection and Precipitation (ACCP) Science and Application Transition Team (SATT) member
Nobuhiro Takahashi	Professor	National Aeronautics and Space Administration (NASA)	Aerosol and Cloud, Convection and Precipitation (ACCP) Algorithm Working Group (AWG) member
Nobuhiro Takahashi	Professor	European Space Agency (ESA)	Member, Joint Mission Advaisory Group for EarthCARE
Hirohiko Masunaga	Associate Professor	National Aeronautics and Space Administration (NASA)	Atmosphere Observing System (AOS), Science and Applications Team (SAT), Algorithm Working Group (AWG) member
Hirohiko Masunaga	Associate Professor	World Climate Research Programme (WCRP) Global Energy and Water cycle Exchanges (GEWEX)	GEWEX Data and Analysis Panel (GDAP) member
Hirohiko Masunaga	Associate Professor	National Aeronautics and Space Administration (NASA) and JAXA	Joint Precipitation Measurement Mission Science Team member
Nozomu Nishitani	Associate Professor	Super Dual Auroral Radar Network (SuperDARN)	Vice chair, Executive Council
Nozomu Nishitani	Associate Professor	Earth, Planets and Space (EPS)	Guest editor for the special issue of 20th Anniversary Issue: Earth, Planetary, and Space Sciences in the Next Decade
Masahito Nosé	Associate Professor	International Association of Geomagnetism and Aeronomy (IAGA)	Chair, Division V
Masahito Nosé	Associate Professor	International Union of Geodesy and Geophysics	Resolution Committee member
Masahito Nosé	Associate Professor	Earth, Planets and Space (EPS)	Vice editors-in-chief
Masahito Nosé	Associate Professor	Polar Data Journal	Editorial Board member
Satonori Nozawa	Associate Professor	EISCAT Scientific Association	Council member
Yuichi Otsuka	Associate Professor	Committee on Space Research (COSPAR)	Chair, Sub-Commission C1: The Earth's Upper Atmosphere and Ionosphere
Yuichi Otsuka	Associate Professor	AGU: Geophysical Research Letters	Editor
Yuichi Otsuka	Associate Professor	Czech Science Foundation	Reviewer
Yuichi Otsuka	Associate Professor	Journal of Astronomy and Space Sciences	Editor
Hatsuki Fujinami	Lecturer	Climate and Ocean: Variability, Predictability and Change (CLIVAR)/ Global Energy and Water cycle Exchanges (GEWEX)	Monsoons Panel Asian-Australian Monsoon Working Group member

5. Joint Research Programs

The ISEE was certified by the MEXT of Japan as a joint usage/research center for the fourth medium-term goal/planning period (FY2022 to FY2027) of national universities on October 29, 2021. During this period, we will promote and perform collaborative research on space-Earth Environmental Sciences with researchers from universities and institutes outside the ISEE as an international hub connecting diverse fields to contribute towards solving global environmental issues affecting humankind and the development of human society by understanding the Earth, Sun, and space as a single system through the integration of space and Earth science and by elucidating the mechanisms and interrelationships of diverse phenomena occurring in the system.

The following 17 categories of open-call joint research programs were promoted using ground, ocean, aircraft, and satellite observations, laboratory experiments, data analysis, numerical simulations, etc., during FY2022: 00) ISEE International symposium, 01) International joint research, 02) Invited foreign researcher joint research, 03) International workshop, 04) General joint research, 05) Encouraged joint research for graduate students, 06) Research meetings, 07) Computing infrastructure, 08) Database management, 09) Accelerator mass spectrometry analysis, 10) Carbon-14 analysis, 11) SCOSTEP Visiting Scholar (SVS) Program, 12) Aircraft observation (dropsonde), 13) International travel support for field and laboratory experiments by students and early career scientists, 14) International technical exchange program, 15) International school support, and 16) International travel support for students (international presentation / institutional stay). Owing to the continuing impact of COVID-19, some international joint research and workshops have been postponed or rescheduled, and research meetings have been held hybridically or online.

The 5th ISEE Symposium "Toward the Future of Space-Earth Environmental Research" was held in a hybrid format at the Sakata and Hirata Hall at Nagoya University from November 15 to 17, 2022, to deepen exchange and integration between space and Earth science within the space-Earth environmental research framework. There were 255 participants, 138 from Japan and 117 from overseas and 85 students, 40 from Japan and 45 from overseas. At this symposium, the 4th ISEE Award was presented to Dr. Satoshi Kasahara of the Graduate School of Science, University of Tokyo. He gave a commemorative lecture titled "One solar cycle with the ERG (ARASE) mission".

The ISEE community meeting was also held online on November 18, the day after the 5th ISEE Symposium, to improve ISEE joint research and develop new interdisciplinary collaboration. In addition to the usual ISEE joint research activity reports and joint research introductions, several newly initiated fusion studies in the fields of space, Earth, computational science, planetary science, and plasma science were introduced. Additionally, opinions were exchanged on how ISEE should operate as a central hub for space-Earth environmental research. The meeting was attended by 48 and 37 participants from outside and within the institute, respectively, for a total of 85 participants, including seven students. Active discussions and exchanges of opinions occurred across disciplines.

In FY2022, the ISEE Joint-Research Online Integrated System was updated in the cooperation of the Research Organization of Information and Systems. In this successor system, JROIS2-ISEE, the format for submitting applications and reports was changed, and all categories shifted to a completely web-based application format from FY2023.

Through wide-ranging open-call joint research activities, the ISEE aims to contribute to solving issues pertaining to global warming and extreme weather disasters, such as typhoons, torrential rains, and space weather disasters for satellites, communications, positioning, electric power, and aviation systems. We also aim to establish an international joint research center connecting diverse fields, with particular emphasis on fostering young researchers, promoting international joint research, and strengthening the integration of diverse fields of space and Earth science through interdisciplinary joint research.

List of Accepted Proposals

■ ISEE International Joint Research Program

Proposer (Affiliation* Job title*)	Title of the research program	Corresponding ISEE researcher
Rangaiah Kariyappa (Former Professor, Indian Institute of Astrophysic)	Solar X-ray Irradiance, Temperature & Magnetic Field Variabilities of the Spatially Resolved Coronal Features	Satoshi Masuda
Ratnam Venkata Devanaboyina (Professor, KL Deemed to be University, India)	Investigation of Extreme Global Total Electron Content Events using Statistical and Fractal Methods	Yuichi Otsuka
Andrew Oke-'Ovie Akala (Associate Professor, University of Lagos, Nigeria)	A study on responses of global equatorial/low-latitude ionosphere to CIR-driven and CME-driven intense geomagnetic storms during solar cycle 24	Yuichi Otsuka
Ravindra Pratap Singh, (Academic Faculty, Physical Research Laboratory, India;)	SSW influence on the MLT dynamics, temperature, and meridional circulation	Satonori Nozawa
Linjie Chen (Associate Researcher/Professor, National Astronomical Observatories, Chinese Academy of Sciences)	Estimation of solar wind speed using the multi-station IPS telescope	Kazumasa Iwai
Ajeet Kumar Maurya (Assistant Professor, Babasaheb Bhimrao Ambedkar University, Lucknow, India)	Understanding vertical atmosphere-ionosphere (AI) coupling through atmospheric gravity waves	Yuichi Otsuka
Prayitno Abadi (Researcher, Other Institution)	Developing a nowcasting capability for the occurrence of post-sunset equatorial plasma bubble in Southeast Asia	Yuichi Otsuka
Wai Leong Teh (Lecturer, Universiti Kebangsaan Malaysia)	Understanding the Role of Magnetic Island in Plasma Acceleration and Energy Conversion during Magnetic Reconnection	Takayuki Umeda
Hermann Opgenoorth (Professor Emeritus, Umeå University, Sweden)	Study of sub-auroral storm time magnetic and convection disturbances and their effects for GIC and GNSS impacts	Nozomu Nishitani
Dedong Wang (Scientist, GFZ German Research Centre for Geosciences)	Analytical Chorus Wave Models Derived from Van Allen Probe and Arase Observations	Yoshizumi Miyosh
Sudarsanam Tulasiram (Professor, Indian Institute of Geomagnetism)	Geomagnetically Induced Currents at equator due to IP shocks and solar wind discontinuities	Kazuo Shiokawa
Shibaji Chakraborty (Postdoctoral Associate, Virginia Polytechnic Institute and State University, USA)	Influence of Solar Flare-Driven Changes in the Ionospheric Conductance and Electric Fields on HF Radar Observed Doppler Flash	Nozomu Nishitani
Ondrej Santolik (Professor, Institute of Atmospheric Physics, Czech Republic)	Investigation of electromagnetic waves in space plasmas	Yoshizumi Miyosh
Takuya Hara (Assistant Research Physicist, University of California Berkeley, USA)	Multi-point spacecraft investigations on the solar erupted magnetic flux ropes propagating through the inner heliosphere	Kazumasa Iwai
Viktor Fedun (Professor, The University of Sheffield, UK)	Analysis of solar active regions based on Lagrangian methodology	Kanya Kusano
Matthew Lazzara (Senior Scientist, University of Wisconsin-Madison, USA)	Creation of a new high-quality longterm temperature dataset of East Antarctic meteorological observations	Naoyuki Kurita
Samuel Krucker (Professor, Fachhochschule Nordwestschweiz, Switzerland)	The NoRH/RHESSI flare catalogue: time-dependent analysis	Satoshi Masuda
Brian Welsch (Associate Professor, University of Wisconsin-Green Bay, USA)	Exploring Magnetic Energies to Understand and Predict CME Onset	Kanya Kusano
Sae Aizawa (Postdoc, Institut de Recherche en Astrophysique et Planetologie, France)	Investigation of the solar wind propagation and its characteristics in the inner heliosphere using multispacecraft, ground-based observations and numerical simulations	Yoshizumi Miyoshi
Matthias Foerster (Senior Scientist, GFZ German Research Centre for Geosciences)	Subauroral phenomena observed by SuperDARN and the Swarm satellite constellation	Nozomu Nishitani
Thomas Berger (Research Staff, University of Colorado at Boulder, USA)	Investigation of Solar Polar Magnetic Fields using Hinode/SP and SDO/HMI Data	Kanya Kusano

Proposer (Affiliation* Job title*)	Title of the research program	Corresponding ISEE researcher
Andrzej Rakowski (Associate Professor, Silesian University of Technology, Poland)	Establishment of master dendrochronological calibration curve around 660 BC using annual tree ring samples from Poland	Masayo Minami
Tobias Spiegl (Professor, Freie Universität Berlin, Germany)	Modelling the transport and deposition of ¹⁴ C produced by extreme solar proton events and 7 Be produced by galactic cosmic rays during the satellite era	Fusa Miyake

^{*} Proposer's affiliation and job title are as of the proposal submission date.

■ ISEE/CICR International Workshop

Proposer (Affiliation* Job title*)	Title of the workshop	Corresponding ISEE researcher
Go Murakami (Assistant Professor, Japan Aerospace Exploration Agency, Japan)	Contribution of the BepiColombo mission to heliospheric system science	Yoshizumi Miyoshi
K. D. Leka, (Senior Research Scientist, NorthWest Research Associates, USA)	What is a Magnetic Flux Rope? Do we know it when we have one?	Kanya Kusano

 $[\]boldsymbol{*}$ Proposer's affiliation and job title are as of the proposal submission date.

■ SCOSTEP Visiting Scholar (SVS) Program

Proposer (Affiliation* Job title*)	Title of the program	Corresponding ISEE researcher
Rahul Rathi (graduate course student, Indian Institute of Technology Roorkee, India)	Determination of local geomagnetic index and its correlation with TEC and airglow intensity	Kazuo Shiokawa
Veera Kumar Maheswaran (graduate-course student, SASTRA Deemed University, India)	Investigation of latitudinal dependence of medium-scale traveling ionospheric disturbances detected from GNSS TEC data over equatorial regions	Yuichi Otsuka
Chukwuma Anoruo (graduate-course student University of Nigeria, Nsukka, Nigeria)	Study of TEC variations during geomagnetic storms	Yuichi Otsuka
Pankaj Kumar Soni (graduate-course student, Indian Institute of Geomagnetism, India)	Investigation of flux enhancement and associated changes in pitch angle distributions of radiation belt particles	Yoshizumi Miyoshi
Nilesh Chauhan (graduate-course student, Indian Institute of Geomagnetism, India)	Study of mesospheric bores from middle and high latitude region	Kazuo Shiokawa
Wellen Rukundo (graduate-course student, Egypt-Japan University of Science and Technology, Egypt)	Detection of equatorial plasma bubbles (EPBs) using a low-cost 630.0 nm all-sky imager	Kazuo Shiokawa
Adithya H. N. (SVS 2021 Recipient) (graduate-course student, Scikraft Education and Engineering Design Pvt. Ltd. India)	Coronal temperature variability from spatially resolved images of the Sun from Hinode/XRT	Satoshi Masuda
Onyinye Gift Nwankwo (graduate-course student, University of Michigan, USA)	Extensive investigation, comparison and validation of the thermospheric wind observations during geomagnetic quiet and disturbed periods using the data surveys from ground-based equipment and results from model calculations	Kazuo Shiokawa

^{*} Proposer's affiliation and job title are as of the proposal submission date.

■ International Technical Exchange Program

Proposer (Affiliation* Job title*)	Title of the program	Corresponding ISEE researcher
Bernhard Kleim (Research Senior Astrophysicist, University of Potsdam, Germany)	Modeling the Source Region of the Extreme Space Weather Event of 1921 May 14–15	Satoshi Masuda
Kevin Krieger (Head Research Engineer, University of Saskatchewan, Canada)	SuperDARN Hokkaido Pair of radars (HOP) system hardware and software development	Nozomu Nishitani
Manabu Shimoyama (Senior Scientist, Swedish Institute of Space Physics, Sweden,)	Joint technology development of ultra-low energy neutral atmospheric analyzer for future Earth and planetary explorers	Masafumi Hirahara
Masayo Minami (Professor, Nagoya University, Japan)	Technical exchange on accelerator mass spectrometry (AMS) for accurate and precise ¹⁴ C measurement	Masayo Minami

^{*} Proposer's affiliation and job title are as of the proposal submission date.

■ ISEE International School Support

Proposer (Affiliation* Job title*)	Title of the program	Corresponding ISEE researcher
Jyrki Manninen (Deputy Director, University of Oulu, Finland)	VERSIM Workshop	Claudia Maria Martinez-Calderon
Hiroyuki Kitagawa (Professor, Nagoya University, Japan)	Short course on AMS radiocarbon dating	Masayo Minami

^{*} Proposer's affiliation and job title are as of the proposal submission date.

Lists of Collaboration Resources

■ Instruments

Name	Contact Person
Multi-Directional Cosmic Ray Muon Telescope (Nagoya)	Yutaka Matsubara
Multi-Station IPS Solar Wind Observation System (Toyokawa, Fuji, and Kiso)	Munetoshi Tokumaru
ELF/VLF Network	Kazuo Shiokawa
ISEE Magnetometer Network	Kazuo Shiokawa
ISEE Riometer Network	Kazuo Shiokawa
Optical Mesosphere Thermosphere Imagers	Kazuo Shiokawa
Sodium LIDAR (Tromsø)	Satonori Nozawa
MF Radar (Tromsø)	Satonori Nozawa
Five-Wavelength Photometer (Tromsø)	Satonori Nozawa
Meteor Radar (Alta)	Satonori Nozawa
SuperDARN Hokkaido Pair of (HOP) Radars (Rikubetsu)	Nozomu Nishitani
Upper Air Sounding Systems (two sets)	Kazuhisa Tsuboki
Polarimetric Radar Systems (two sets)	Kazuhisa Tsuboki
Ka-Band Polarimetric Radar	Kazuhisa Tsuboki
Hydrometeor Video Sonde (HYVIS) System	Kazuhisa Tsuboki
Fourier Transform Infrared (FTIR) Spectrometer for Atmospheric Composition Measurement (Rikubetsu)	Tomoo. Nagahama
Sea Spray Aerosol Optical Particle Counter	Hidenori Aiki
Low-Background Beta-Ray Counter	Naoyuki Kurita
Water Isotope Analyzer (Picarro L2130-i)	Naoyuki Kurita

■ Software/Databases

Name	Contact Person
Hinode Science Center, Nagoya University	Kanya Kusano
ERG Science Center	Yoshizumi Miyoshi
QL Plot Archive of Satellite Data for Integrated Studies	Yoshizumi Miyoshi
MHD Simulation on the Magnetospheric Environment	Takayuki Umeda
Numerical Simulation Codes for Plasma Kinetics	Takayuki Umeda
Cosmic Ray Intensity Database	Yutaka Matsubara
Interplanetary Scintillation Data	Munetoshi Tokumaru
Solar Wind Speed Data	Munetoshi Tokumaru
Remei Satellite Observation Database	Masafumi Hirahara
Coordinated Magnetic Data Along 210° Magnetic Meridian (Moshiri, Rikubetsu, Kagoshima, and Overseas MM Stations)	Kazuo Shiokawa
Database of the Optical Mesosphere Thermosphere Imagers	Kazuo Shiokawa
ELF/VLF Wave Data	Kazuo Shiokawa

Name	Contact Person
ISEE Riometer Network Database	Kazuo Shiokawa
All-Sky Auroral Data (Canada, Alaska, and Siberia)	Kazuo Shiokawa, Yoshizumi Miyoshi
VHF Radar/GPS Scintillation (Indonesia)	Yuichi Otsuka
EISCAT Database	Satonori Nozawa, Shin-ichiro Oyama
SuperDARN Hokkaido Pair of (HOP) Radars Database	Nozomu Nishitani
Cloud Resolving Strom Simulator (CReSS)	Kazuhisa Tsuboki
Atmospheric Composition Data by FTIR Measurements (Moshiri and Rikubetsu)	Tomoo Nagahama
NO ₂ and O ₃ Data by UV/Visible Spectrometer Measurements (Moshiri and Rikubetsu)	Tomoo Nagahama
Satellite Data Simulator Unit (SDSU)	Hirohiko Masunaga
Energy Flux Diagnosis Code for Atmospheric and Oceanic Waves	Hidenori Aiki

■ Facilities

Name	Contact Person
CIDAS System	Satoshi Masuda, Takayuki Umeda, Yoshizumi Miyoshi
Ion/Electron Beamline and Calibration Facility	Masafumi Hirahara
Clean Room Facility for Instrument Development	Masafumi Hirahara
CHN Analyzer, Isotope Ratio Mass Spectrometer	Yoshihisa Mino
Tandetron Accelerator Mass Spectrometry	Hiroyuki Kitagawa, Masayo Minami
Electron Probe Microanalyzer (EPMA)	Takenori Kato
X-Ray Fluorescence Spectrometer (XRF)	Takenori Kato
X-Ray Diffractometer (XRD)	Takenori Kato
Facilities at Moshiri Observatory	Akira Mizuno
Facilities at Rikubetsu Observatory	Akira Mizuno
Facilities at Kiso Station	Munetoshi Tokumaru
Facilities at Fuji Observatory	Munetoshi Tokumaru
Facilities at Kagoshima Observatory	Kazuo Shiokawa

6. Governance

As of March 31, 2023

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7. Finance

External Funding and Industry-Academia-Government Collaborations

Researches of ISEE members as principal investigator were supported by the following external funds.

Kakenhi category	Number of subjects	Total amount (JPY)
Grant-in-Aid for Scientific Research on Innovative Areas	1	12,610,000
Grant-in-Aid for Scientific Research (S)	3	115,050,000
Grant-in-Aid for Scientific Research (A)	8	69,030,000
Grant-in-Aid for Scientific Research (B)	10	62,400,000
Grant-in-Aid for Scientific Research (C)	4	7,639,243
Grant-in-Aid for Challenging Research (Exploratory)	7	22,419,521
Grant-in-Aid for Early-Career Scientists	7	13,256,374
Grant-in-Aid for Research Activity Start-up	2	3,383,317
Fund for the Promotion of Joint International Research (Fostering Joint International Research (B))	3	17,236,240
Grant-in-Aid for JSPS Fellows	5	5,970,000
Total	50	328,994,695

- Fifty research subjects listed in the table were supported by the JSPS Kakenhi.
- Twenty-seven research subjects received total 178,873,632 JPY from governmental funds except KAKENHI, and from other universities and companies. Twelve of them were collaborative researches between ISEE and companies, or national institutes.
- Thirteen research subjects received total 19,236,220 JPY of donation.

Libraries

■ Library, Solar-Terrestrial Sciences (ISEE Library #1)

■ Library, Hydrospheric-Atmospheric Sciences (ISEE Library #2)

Japanese	3,079
Foreign	11,141
Journals	

47 207

Books	
Japanese	4,565
Foreign	8,926

Journals

Japanese	282
Foreign	257

Properties

Japanese

Foreign

	Site (m²)	Buildings (m²)	Location
Higashiyama Campus (Main campus of Nagoya University)	-	8,442	Aichi
Toyokawa Campus	94,212	1,461	Aichi
Moshiri Observatory	110,534	325	Hokkaido
Rikubetsu Observatory	24,580	167	Hokkaido
Kagoshima Observatory	13,449	287	Kagoshima
Fuji Observatory	19,926	174	Yamanashi
Kiso Station	6,240	66	Nagano