

## Members of the ERG–Ground Coordinated Observation Team (PWING Project)

(These members are included in the mailing list of [pwing\\_all](mailto:pwing_all@stdb2.isee.nagoya-u.ac.jp) at [stdb2.isee.nagoya-u.ac.jp](mailto:stdb2.isee.nagoya-u.ac.jp))

Name	Country	Affiliation	Related Station or Topic	PWING Assignment
Shuji Abe	Japan	International Center for Space Weather Science and Education (ICSWSE), Kyushu University	MAGDAS magnetometer array	PWING collaborator
Marko Back	Finland	Nyrola Observatory	Nyrola	PWING collaborator
Dmitry Baishev	Russia	Institute of Cosmophysical Research and Aeronomy (IKFIA), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Zhigansk	PWING collaborator
George Balasis	Greece	University of Athens	ENIGMA magnetometer array	PWING collaborator
Tyler Begley	USA	Geophysical Institute, University of Alaska Fairbanks (GI, UAF)	Gakona	PWING collaborator
Oleg Bergardt	Russia	Institute of Solar–Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
William Bristow	USA	Geophysical Institute, University of Alaska Fairbanks (GI, UAF)	Gakona	PWING collaborator
Vasily Bychkov	Russia	Institute of Cosmophysical Research and Radiowave Propagation (IKIR), Far Eastern Branch (FEB) of the Russian Academy of Sciences (RAS)	Magadan, Paratunka	PWING collaborator
Claudia Martinez–Calder	Japan	Tohoku University	data analysis	PWING collaborator
Martin Connors	Canada	Athabasca University	Athabasca, Canada	PWING collaborator
Ioannis Daglis	Greece	University of Athens	ENIGMA magnetometer array	PWING collaborator
Andrei Demekhov	Russia	Polar Geophysical Institute	PGI stations	PWING collaborator
Mark Engebretson	USA	Augsburg College	Nain, Canada	PWING collaborator
Phil Erickson	USA	MIT Haystack Observatory	Millstone Hill ISR	PWING collaborator
Christopher Fallen	USA	Geophysical Institute, University of Alaska Fairbanks (GI, UAF)	Gakona	PWING collaborator
John Foster	USA	MIT Haystack Observatory	Millstone Hill ISR	PWING collaborator
Ryoichi Fujii	Japan	Research Organization of Information and Systems (ROIS)	database coordination	PWING collaborator
Akiko Fujimoto	Japan	International Center for Space Weather Science and Education (ICSWSE), Kyushu University	MAGDAS magnetometer array	PWING collaborator
Kumiko Hashimoto	Japan	Kibi International University	data analysis	PWING collaborator
Tomoaki Hori	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya University	SuperDARN, modeling	PWING collaborator
Keisuke Hosokawa	Japan	The University of Electro–Communications	Resolute/Eureka, Canada	PWING collaborator
Igor Ievenko	Russia	Institute of Cosmophysical Research and Aeronomy (IKFIA), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Zhigansk	PWING collaborator
Shun Imajo	Japan	Kyoto University	MAGDAS magnetometer array	PWING collaborator

Mamoru Ishii	Japan	National Institute of Information and Communications Technology (NICT)	space weather coordination	PWING collaborator
Chae-Woo Jun	USA	UCLA	data analysis	PWING collaborator
Akira Kadokura	Japan	National Institute of Polar Research (NIPR)	Husafell, Tjornes, Iceland	PWING collaborator
Stephen R. Kaeppler	USA	SRI International	PFISR	PWING collaborator
Martie Karjala	USA	Geophysical Institute, University of Alaska Fairbanks (GI, UAF)	Gakona	PWING collaborator
Ryuhō Kataoka	Japan	National Institute of Polar Research (NIPR)	EMCCD camera	PWING member
Kirsti Kauristie	Finland	Finnish Meteorological Institute (FMI)	Nyrola and Kevo, FMI stations	PWING collaborator
Jyrki Mattanen	Finland	Finnish Meteorological Institute (FMI)	Nyrola and Kevo, FMI stations	PWING collaborator
Hideaki Kawano	Japan	International Center for Space Weather Science and Education (ICSWSE), Kyushu University	MAGDAS magnetometer array	PWING collaborator
David Kenward	USA	University of New Hampshire (UNH)	Gakona	PWING collaborator
Antti Kero	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Sergey Khomutov	Russia	Institute of Cosmophysical Research and Radiowave Propagation (IKIR), Far Eastern Branch (FEB) of the Russian Academy of Sciences (RAS)	Magadan, Paratunka	PWING collaborator
Takashi Kikuchi	Japan	Nagoya University	data analysis	PWING collaborator
Khan-Hyuk Kim	Korea	Kyung-Hee University	KHU stations	PWING collaborator
Hyomin Kim	USA	New Jersey Institute of Technology (NJIT)	Gakona	PWING collaborator
Kentaro Kitamura	Japan	National Institute of Technology, Tokuyama College	data analysis	PWING collaborator
Dmitry Kotov	Ukraine	Institute of Ionosphere	Kharkiv ISR	PWING collaborator
Boris Kozelov	Russia	Polar Geophysical Institute	PGI stations	PWING collaborator
Alexander Kozlovsky	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Satoshi Kurita	Japan	Institute for Space-Earth Environmental Research (ISEE), Nagoya University	database construction	PWING member
Vladimir Kurkin	Russia	Institute of Solar-Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
Marc Lessard	USA	University of New Hampshire (UNH)	Gakona	PWING collaborator
Jyrki Manninen	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Andrei Medvedev	Russia	Institute of Solar-Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
Yukinaga Miyashita	Korea	Korea Astronomy and Space Science Institute (KASI)	Database coordination	PWING collaborator
Yoshizumi Miyoshi	Japan	Institute for Space-Earth Environmental Research (ISEE), Nagoya University	ERG Project Scientist, PWING database construction	PWING member

Alexey Moiseyev	Russia	Institute of Cosmophysical Research and Aeronomy (IKFIA), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Zhigansk	PWING collaborator
Robert Moore	USA	University of Florida	Gakona	PWING collaborator
David Murr	USA	Augsburg College	Nain, Canada	PWING collaborator
Tsutomu Nagatsuma	Japan	National Institute of Information and Communications Technology (NICT)	induction magnetometer	PWING member
Nozomu Nishitani	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya	SuperDARN, Istok	PWING member
Reiko Nomura	Japan	Japan Aerospace Exploration Agency (JAXA)	data analysis	PWING collaborator
Masahito Nose	Japan	Kyoto University	Kapuskasing, Nain	PWING member
Yuki Obana	Japan	Osaka Electro–Communication University	magnetometer	PWING member
Yasunobu Ogawa	Japan	National Institute of Polar Research (NIPR)	Tromsø, Norway	PWING collaborator
Hiroyo Ohya	Japan	Chiba University	data analysis	PWING collaborator
Alexey Oinats	Russia	Institute of Solar–Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
Masaki Okada	Japan	National Institute of Polar Research (NIPR)	NIPR array	PWING collaborator
Arto Oksanen	Finland	Nyrola Observatory	Nyrola	PWING collaborator
Yuichi Otsuka	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya University	GNSS network, database construction	PWING member
Shin–Ichiro Oyama	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya University	Gakona, Nyrola, Tromsø	PWING member
Mitsunori Ozaki	Japan	Kanazawa University	VLF receiver	PWING member
Alexander Pashinin	Russia	Institute of Solar–Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
Slava Pilipenko	USA	Augsburg College	Nain, Canada	PWING collaborator
Igor Poddelsky	Russia	Institute of Cosmophysical Research and Radiowave Propagation (IKIR), Far Eastern Branch (FEB) of the Russian Academy of Sciences (RAS)	Magadan	PWING collaborator
Tero Raita	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Mike Ruohoniemi	USA	Virginia Tech.	Kapuskasing,	PWING collaborator
Satoko Saita	Japan	National Institute of Technology, Kitakyusyu College	data analysis	PWING collaborator
Kaori Sakaguchi	Japan	National Institute of Information and Communications Technology (NICT)	data analysis	PWING collaborator
Takeshi Sakanoi	Japan	Tohoku University	camera	PWING member
Natsuo Sato	Japan	National Institute of Polar Research (NIPR)	NIPR array	PWING collaborator
Kanako Seki	Japan	University of Tokyo	modeling	PWING member
Boris Shevtsov	Russia	Institute of Cosmophysical Research and Radiowave Propagation (IKIR), Far Eastern Branch (FEB) of the Russian Academy of Sciences (RAS)	Magadan, Paratunka	PWING collaborator
Atsuki Shinbori	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya	GNSS network	PWING member
Iku Shinohara	Japan	Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency (JAXA)	ERG Project Manager	PWING member

Manabu Shinohara	Japan	Kagoshima National College of Technology	data analysis	PWING collaborator
Kazuo Shiokawa	Japan	Institute for Space–Earth Environmental Research (ISEE), Nagoya	PWING chair	PWING member
Erik Steinmetz	USA	Augsburg College	Nain, Canada	PWING collaborator
Kevin Sterne	USA	Virginia Tech.	Kapuskasing,	PWING collaborator
Shin Suzuki	Japan	Aichi University	airglow imager	PWING member
Hiroyasu Tadokoro	Japan	Musashino University	data analysis	PWING collaborator
Makoto Taguchi	Japan	Rikkyo University	Fabry–Perot interferometer	PWING collaborator
Naoko Takahashi	Japan	University of Tokyo	modeling	PWING member
Yoshimasa Tanaka	Japan	National Institute of Polar Research (NIPR)	riometer	PWING member
Toru Tanimori	Japan	Kyoto University	balloon experiment	PWING collaborator
Fuminori Tsuchiya	Japan	Tohoku University	LF receiver	PWING member
Esa Turunen	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Thomas Ulich	Finland	Sodankylä Geophysical Observatory (SGO)	SGO stations	PWING collaborator
Roger Varney	USA	SRI International	PFISR	PWING collaborator
Roman Vasiliev	Russia	Institute of Solar–Terrestrial Physics (ISTP), Siberian Branch (SB) of the Russia Academy of Sciences (RAS)	Istok near Norilsk	PWING collaborator
Brenton Watkins	USA	Geophysical Institute, University of Alaska Fairbanks (GI, UAF)	Gakona	PWING collaborator
Hisao Yamagisi	Japan	National Institute of Polar Research (NIPR)	NIPR array	PWING collaborator
Akimasa Yoshikawa	Japan	International Center for Space Weather Science and Education (ICSWSE), Kyushu University	MAGDAS magnetometer array	PWING collaborator
Akira S. Yukimatu	Japan	National Institute of Polar Research (NIPR)	NIPR array	PWING collaborator
Kiyohumi Yumoto	Japan	International Center for Space Weather Science and Education (ICSWSE), Kyushu University	MAGDAS magnetometer array	PWING collaborator