# THE 15TH INTERNATIONAL SYMPOSIUM ON GEO-DISASTER REDUCTION

# PROGRAM BOOK

25-30 AUGUST 2017

OKI ISLANDS - MATSUE - KYOTO, JAPAN

Financial supports of this symposium were supplied by:

Shimane University, Japan

Collaboration research program (29K-02) of the Disaster Prevention Research Institute of Kyoto University, Japan

Kunibiki-messe, Matsue Convention Bureau, Shimane Prefecture, Japan

Electric Technology Research Foundation of Chugoku, Japan

# The 15th International Symposium on Geo-disaster Reduction

## *Global Strategy for Geo-disaster Reduction*

## Organizers

Project Center on Natural Disasters Reduction, Shimane University, Matsue, Japan

Joint International Center on Natural Hazard (JIC-Nh) of Shimane University, Beijing University of Technology and the University of Florence

International Consortium on Geo-disaster Reduction (ICGdR)

Research Centre on Landslide, Disaster Prevention Research Institute, Kyoto University, Japan

OKI Islands Global Geopark Office, Japan

**Date: 25-30 August 2017**
**Venue: Oki Islands & Terrsa, Matsue &**
**Obaku Plaza, Kyoto University, Kyoto, Japan**
**https://icgdr.com/symposium/**

## General Schedule

| DATE | TIME | LOCATION | EVENTS AND PROGRAMME |
|---|---|---|---|
| 25 Aug. | 14:00-18:00 | 1F, Terrsa, Matsue | Registration |
| | 18:00-20:00 | Capricciosa (2F, Terrsa) | Ice Break Party |
| 26 Aug. | 07:40-11:30 | Oki Islands | Travel from Matsue to Oki Islands |
| | 12:30-18:00 | | Field Excursion on landslide and rock cliff |
| 27 Aug. | 08:30-16:00 | Oki Islands | Field Excursion on coastline erosion |
| | 16:30-18:30 | 4F, Terrsa, Matsue | Annual Meeting of ICGdR |
| 28 Aug. | 09:00-09:30 | 1F, Terrsa, Matsue | Opening Ceremony |
| | 09:30-10:30 | | High Level Forum |
| | 10:30-10:40 | | Coffee Break |
| | 10:40-12:10 | | High Level Forum |
| | 12:10-13:10 | | Lunch Break |
| | 13:10-14:40 | | High Level Forum |
| | 14:45-15:35 | | Keynote Lectures |
| | 15:35-15:55 | | Coffee Break |
| | 15:55-18:00 | | Keynote Lectures |
| | 19:00-21:00 | Ichibata Hotel | Welcome Banquet |
| 29 Aug. | 08:30-10:10 | 4F, Terrsa, Matsue | Invited Lecture 1 & 2 |
| | 10:10-10:20 | | Coffee Break |
| | 10:20-12:00 | | Invited Lecture 3 & 4 |
| | 12:00-13:00 | | Lunch Break |
| | 13:00-14:00 | | Scientific Session 1 & 2 |
| | 14:00-16:00 | | Youth Forum 1 & 2 |
| | 16:15-21:00 | | Move to Kyoto |
| 30 Aug. | 09:00-10:30 | Obaku Plaza, Kyoto | Keynote Lecture |
| | 10:30-10:40 | | Coffee Break |
| | 10:40-12:00 | | Invited Lecture 5 |
| | 12:00-13:00 | | Lunch Break |
| | 13:00-14:00 | | Scientific Session 3 & 4 |
| | 14:00-14:10 | | Coffee Break |
| | 14:10-16:40 | | Youth Forum 3 & 4 |
| | 16:40-17:30 | | Visit the laboratories in Kyoto University |
| | 17:30-19:30 | | Closing Ceremony & Farewell Party |

## August 28 (Monday)

| | |
|---|---|
| **Opening Ceremony**<br>Terrsa Hall (1F) | |
| **Facilitator** | **Fawu WANG** |
| 09:00-09:30 | **Opening Speech**<br>**Yasunao HATTORI** (President of Shimane University, Japan) |
| | **Opening Speech**<br>**Soichiro YASUKAWA** (Programme Specialist, Section on Earth Sciences and Geo-hazards Risk Reduction, UNESCO) |
| | **Opening Speech**<br>**Masakatsu MIYAJIMA** (President of ICGdR) |
| | **Certificate & Award Ceremony** |
| **High Level Forum**<br>Terrsa Hall (1F) | |
| **Facilitator** | **Sandro MORETTI, Toshitaka KAMAI** |
| 09:30-10:00 | **Soichiro YASUKAWA** (Programme specialist, Section on Earth Sciences and Geo-hazards Risk Reduction, UNESCO)<br>*UNESCO's contribution to geo-hazards risk reduction* |
| 10:00-10:30 | **Masakatsu MIYAJIMA** (President of ICGdR, Kanazawa University)<br>*Large ground displacement caused by fault movement and its countermeasure to buried pipeline* |
| 10:30-10:40 | **Coffee Break** |
| **High Level Forum** | |
| **Facilitator** | **Masakatsu MIYAJIMA, Tonglu LI** |
| 10:40-11:10 | **Paolo CANUTI** (Director of UNESCO Chair in University of Florence)<br>*UNESCO Chair on prevention and sustainable management of geo-hydrological hazards* |
| 11:10-11:40 | **Toshitaka KAMAI** (Director, RCL, DPRI, Kyoto University)<br>*Raised-bed rivers in Japan –relics of the historical interaction between floods, landslides, and socioeconomic system* |
| 11:40-12:10 | **Nicola CASAGLI** (Vice President of ICGdR, University o f Florence)<br>*Innovative technologies for landslide monitoring and early warning* |
| 12:10-13:10 | **Lunch Time** |

| High Level Forum | |
|---|---|
| **Facilitator** | **Nicola CASAGLI, Fawu WANG** |
| 13:10-13:40 | **Tonglu LI** (Vice President of ICGdR, Chang'an University)<br>*Soil-water interaction modeling based on discontinuous deformation analysis method* |
| 13:40-14:10 | **Dwikorita KARNAWTI** (Adviser of ICGdR)<br>*Total quality management in landslide disaster risk reduction in Indonesia* |
| 14:10-14:40 | **Atsushi YASHIMA** (Professor in Gifu University)<br>*SPH-based liquefaction analysis of detached house foundation* |
| **Keynote Lecture**<br>Terrsa Hall (1F) | |
| **Chairperson** | **Nicola CASAGLI; Soichiro YASUKAWA** |
| 14:45-15:10 | **Guangqi CHEN** (Kyushu University)<br>*An approach of landslide risk assessment in Japan by considering global climate change* |
| 15:10-15:35 | **Yu HUANG** (Tongji University)<br>*Dynamic reliability analysis of slopes* |
| 15:35-15:55 | **Coffee Break** |
| **Keynote Lecture** | |
| **Chairperson** | **Zhenghong LI; Vít VILIMEK** |
| 15:55-16:20 | **Sandro MORETTI** (University o f Florence)<br>*EO (Earth Observation) data and technology to detect, map, monitor and forecast ground deformations* |
| 16:20-16:45 | **Qiang XU** (Chengdu University of Technology)<br>*Characteristics and failure mechanism of the deadly June 24th 2017 Xinmo landslide, Maoxian, Sichuan, China* |
| 16:45-17:10 | **Shengwen QI** (Institute of Geology and Geophysics, Chinese Academy of Sciences)<br>*A Toppling failure of the right bank slope in a hydropower station, SW China* |
| 17:10-17:35 | **Binod TIWARI** (California State University, Fullerton)<br>*Importance of spectral acceleration in evaluating cyclic failure on soft clays – an experience from 2015 Gorkha Earthquake* |
| 17:35-18:00 | **Weimin YE** (Tongji University)<br>*Deterioration mechanisms of cracked surface crust on salt-laden earthen heritages in northwest China* |
| 19:00-21:00 | **Banquet** |

| Poster Session | |
|---|---|
| **1** | **Weihua ZHAO** (Chengdu University of Technology)<br>*Failure mechanism and post-disaster effect of Weijiashan landslide induced by Wenchuan Earthquake* |
| **2** | **Youwei SUN** (Institute of Disaster Prevention, China)<br>*Technical problems in urban earthquake disaster mitigation planning* |
| **3** | **Ming CHANG** (Chengdu University of Technology)<br>*Hazard assessment of debris flows in the Wenchuan Earthquake- stricken area, South West China* |
| **4** | **Hiroshi NAKAZAWA** (National Research Institute for Earth Science and Disaster Resilience)<br>*Residual deformation in full-scale shake table test of a gabion retaining wall for road* |
| **5** | **Hanxiang LIU** (Chengdu University of Technology)<br>*A statistical view of topographic effect on seismic vertical motions of slopes based on a series of shaking table tests* |
| **6** | **Xunye DAI** (Institute of Disaster Prevention, China)<br>*Late-Quaternary paleoearthquake and seismic risk analysis of the Quanquanzi segment of the Fukang fault belt, in Xinjiang* |
| **7** | **Chaoyang HE** (Chengdu University of Technology)<br>*Automatic real-time monitoring and early warning system of debris flow in the three major areas of Sichuan Province* |
| **8** | **Paolo BILLI** (University of Tottori)<br>*Climate change, human impact and hydro-meteorological hazard in Dire Dawa District, Ethiopia* |
| **9** | **Wenkai FENG** (Chengdu University of Technology)<br>*An analysis of the reactivation mechanism of ancient landslide* |
| **10** | **Zili DAI** (Shimane University)<br>*Investigation on the landslides triggered by the 2016 Kumamoto Earthquake, Japan.* |

NOTE: Posters must be brought to the symposium by the presenting author and should not be mailed in advance. The required dimensions are 90 cm (width) by 150 cm (height). The general display time is 9:00-18:00, 28 August.

## August 29 (Tuesday)

| | **Invited Lecture 1**<br>(Meeting Room L, 4F) | **Invited Lecture 2**<br>(Meeting Room M, 4F) |
|---|---|---|
| **Chairperson** | **Andreas AUER, Tonglu LI** | **Binod TIWARI, Masaho YOSHIDA** |
| 08:30-08:50 | **Maosong HUANG** (Tongji University)<br>*Stability analysis of MSW landfill slopes based on upper bound limit analysis methods* | **Qiangong CHENG** (Southwest Jiaotong University)<br>*3D numerical modelling of airblast generated by the Wangjiayan rockslide in the 2008 Wenchuan Earthquake* |
| 08:50-09:10 | **Sabatino CUOMO** (University of Salerno)<br>*Numerical modeling of debris flows and debris avalanches* | **Shijin FENG** (Tongji University)<br>*Slope stability analysis of bioreactor landfills* |
| 09:10-09:30 | **Huabin WANG** (Huazhong University of Science and Technology)<br>*The methods in numerical simulations for slope failure due to rainfall infiltration* | **Ping SUN** (Chinese Academy of Geological Sciences)<br>*Experimental study on mechanism of rainfall-induced shallow loess landslides* |
| 09:30-09:50 | **Luis Ribeiro SOUSA** (China University of Mining & Technology)<br>*Hazards induced by the 2008 Wenchuan Earthquake* | **Fei CAI** (Gunma University)<br>*A subgrade reaction solution for anchored piles to stabilize landslides* |
| 09:50-10:10 | **Hong SUN** (Shanghai Jiao Tong University)<br>*Seismic behaviors of soil slope in permafrost regions using a large-scale shaking table* | **Veronica TOFANI** (University of Florence)<br>*Application of regional physically-based landslide early warning model: field parametrization and validation of the results* |
| 10:10-10:20 | **Coffee Break** | |
| | **Invited Lecture 3**<br>(Meeting Room L, 4F) | **Invited Lecture 4**<br>(Meeting Room M, 4F) |
| **Chairperson** | **Netra Prakash BHANDARY, Qiang XU** | **Qiangong CHENG, Jianhui DENG** |
| 10:20-10:40 | **Toshikazu IKEMOTO** (Kanazawa University)<br>*Deformation analysis of stone retaining masonry of the Kumamoto castle in the 2016 Kumamoto Earthquake* | **Wenxing JIAN** (China University of Geosciences, Wuhan)<br>*Characteristics and mechanism of translational landslides in Three Gorges Reservoir, China* |

| | | |
|---|---|---|
| 10:40-11:00 | **Masaho YOSHIDA** (National Institute of Technology, Fukui College)<br>*Experimental study on a deformation mitigation method for road embankment during liquefaction by using gravel and geosynthetics* | **Jun SHEN** (Institute of Disaster Prevention, China)<br>*Paleo-earthquake study with drilling core in the epicenter of 1679 M8 Sanhe-Pinggu earthquake along Xiadian Fault in Beijing Plain Area* |
| 11:00-11:20 | **Takao HASHIMOTO** (Kokushikan University)<br>*Effect of countermeasures against liquefaction of groundwater level by propulsion method* | **Chuan TANG** (Chengdu University of Technology)<br>*An empirical model to predict the debris flow volume* |
| 11:20-11:40 | **Yingbin ZHANG** (Kyushu University)<br>*Initiation of near-fault landslides subjected to pulse-like ground motions* | **Lizhou WU**<br>*Coupling problems of unsaturated soil slope under the conditions of rainfall infiltration* |
| 11:40-12:00 | **Chun LIU** (Tongji University)<br>*Establishment of stereo multi-sensor network for giant landslide monitoring and its deployment in Xishancun Landslide Sichuan China* | **Mo XU** (Chengdu University of Technology)<br>*Landslide soil parameters optimization based on successive approximation method* |
| 12:00-13:00 | **Lunch Time** | |
| | **Scientific Session 1**<br>(Meeting Room L, 4F) | **Scientific Session 2**<br>(Meeting Room M, 4F) |
| **Chairperson** | **Sabatino CUOMO; Jun SHEN** | **Takao HASHIMOTO; Ping SUN** |
| 13:00-13:15 | **Andreas AUER** (Shimane University)<br>*The 2010 - 2013 eruption of Kizimen Volcano, Kamchatka* | **Ming PENG** (Tongji University)<br>*Slope safety evaluation by integrating multi-source monitoring information* |
| 13:15-13:30 | **Tetsuya KOGURE** (Shimane University)<br>*Attempt of strain measurements for a landslide through distributed fiber optic sensing* | **Akira MURATA** (Kanazawa University)<br>*Estimation of strong motion using h/v spectral ratio during 2016 Kumamoto Earthquake* |
| 13:30-13:45 | **Xiaoguang CAI** (Institute of Disaster Prevention, China)<br>*Analysis of geogrids strain and failure surface of two-stage reinforced soil-retaining wall under seismic loading* | **Chong XU** (Institute of Geology, China Earthquake Administration)<br>*A detailed inventory of landslides induced by the 2016 Kumamoto Earthquake, Japan* |
| 13:45-14:00 | **Setiawan HENDRA**<br>(Kanazawa University)<br>*Fundamental shake table tests on mitigation of liquefaction-induced ground displacement by using gravel and geosynthetics* | **Saied PIRASTEH**<br>(University of Waterloo)<br>*An algorithm development for automated extraction of landslide geometry from LiDAR DEM: A novel landslide classification* |

| | **Youth Forum 1**<br>(Meeting Room L, 4F) | **Youth Forum 2**<br>(Meeting Room M, 4F) |
|---|---|---|
| **Chairperson** | **Chaosheng TANG, Chong XU** | **Xuanmei FAN, Veronica TOFANI** |
| 14:00-14:15 | **Lu ZHENG** (Sichuan University)<br>*Frequency characteristics of acoustic emission in white marble under rock tests* | **Qingqing YANG** (Southwest Jiaotong University)<br>*Influence of grain size distribution on the mobility of polydisperse granular flows* |
| 14:15-14:30 | **Hufeng YANG** (Southwest Jiaotong University)<br>*Preliminary investigation on the formation mechanism of geomorphic feathers in Luanshibao rock avalanche* | **Wentao YANG**<br>(Beijing Forestry University)<br>*Post-seismic vegetation recovery and landslide changes after the Wenchuan Earthquake* |
| 14:30-14:45 | **Keren DAI** (Chengdu University of Technology)<br>*Monitoring activity at the Daguangbao mega-landslide (China) using Sentinel-1 TOPS time series interferometry* | **Yuko SERIKAWA** (Kanazawa University)<br>*Effects of liquefaction damage to houses on health problems in the 2016 Kumamoto Earthquakes in Japan* |
| 14:45-15:00 | **Kenta KONDO** (Kanazawa University)<br>*A study on sediment disaster prediction method based on measurement of ground water level in slope* | **Ahmad Qasim AKBAR**<br>(Kyushu University)<br>*Comparison of major statistical methods and its combination for landslide susceptibility mapping* |
| 15:00-15:15 | **Xilin XIA** (Newcastle University)<br>*An integrated hydrodynamic model for runoff initiated debris flow in mountainous catchments* | **Tsukasa MITOGAWA**<br>(Shimane University)<br>*Strain rate analysis in San'in area using GNSS data* |
| 15:15-15:30 | **Ryosuke NOGUCHI**<br>(Kanazawa University)<br>*Effects of damage on performance of hospital in the 2016 Kumamoto Earthquake* | **Xiaohui YU** (Institute of Disaster Prevention, China)<br>*Gudian fault: triggering seismic fault of MS7.0 , in 1119AD, Northeast China* |
| 15:30-15:45 | **Xiaobo LI** (Institute of Disaster Prevention, China)<br>*Effect of bedrock terrain on seismic ground motion* | **Zhandong SU** (Institute of Disaster Prevention, China)<br>*Antecedent effective rainfall attenuation model in the forecasting of impending debris flows* |
| 15:45-16:00 | **Chengwen CAI** (Kyushu University)<br>*Simulation of vehicle toppled phenomenon induced by the 2016 Kumamoto Earthquake using 3D-DDA* | **Heqing MU** (South China University of Technology)<br>*Selection of ground motion prediction equation by Bayesian learning approach* |
| 16:15-21:00 | **Move to Kyoto** | |

## August 30 (Wednesday)

| | | |
|---|---|---|
| **Keynote Lecture**<br>**Kihada Hall, Obaku Plaza (1F)** | | |
| **Chairperson** | **Luis Ribeiro SOUSA, Wenxing JIAN** | |
| 09:00-09:30 | **Zhenhong LI** (Newcastle University)<br>*Satellite radar observations in support of geo-disaster risk reduction* | |
| 09:30-10:00 | **Matteo BERTI** (University of Bologna)<br>*Reactivation of a dormant earthflow documented by field monitoring data* | |
| 10:00-10:30 | **Vít VILIMEK** (Charles University)<br>*Hazard mitigation of GLOFs (Glacial Lake Outburst Floods) in the Cordillera Blanca, Peru* | |
| 10:30-10:40 | **Coffee Break** | |
| **Invited Lecture 5**<br>**Kihada Hall, Obaku Plaza (1F)** | | |
| **Chairperson** | **Guoliang DAI, Shengwen QI** | |
| 10:40-11:00 | **Chaosheng TANG** (Nanjing University)<br>*Drought induced soil desiccation cracking behavior* | |
| 11:00-11:20 | **Netra Prakash BHANDARY** (Ehime University)<br>*Ground motion and its engineering implications in Kathmandu Valley during the 2015 Nepal Earthquake* | |
| 11:20-11:40 | **Xuanmei FAN** (Chengdu University of Technology)<br>*Sediment transfer patterns at the Yangjia catchment in Beichuan after the 2008 Wenchuan Earthquake* | |
| 11:40-12:00 | **Christopher GOMEZ** (Kobe University)<br>*Living on the donuts – sea and coastal hazards in the age of climate change and the anthropocene* | |
| 12:00-13:00 | **Lunch Time** | |
| | **Scientific Session 3**<br>(Meeting Room No.1) | **Scientific Session 4**<br>(Meeting Room No.2) |
| **Chairperson** | **Fei CAI, Huabin WANG** | **Christopher GOMEZ, Lizhou WU** |
| 13:00-13:15 | **Yan XU** (Jilin University)<br>*Analysis and design of engineering control measures of sub-erosion vertical separated collapse at the national geological park of Qian'an Mud Forest, China* | **Bin YE** (Tongji University)<br>*Experimental study on the liquefaction resistance of sand reinforced with randomly distributed polypropylene fibers* |

| | | |
|---|---|---|
| 13:15-13:30 | **Xiaoqiang GU** (Tongji University)<br>*Measurement of small strain shear stiffness of saturated soft clay by bender element* | **Yan LYU** (Jilin University)<br>*Research on heavy metal pollution of turf swamp under the influence of highways in Northeast China* |
| 13:30-13:45 | **Guoliang DAI** (Southeast University)<br>*Study on seismic isolation effect of deepwater gravel cushion* | **Ling XU** (Xi'an Jiaotong University)<br>*On the mechanisms of loess flowslides within the framework of critical state soil mechanics* |
| 13:45-14:00 | **Guoqing CHEN** (Chengdu University of Technology)<br>*Search for sliding surface of slope based on Dynamic Strength Reduction Method* | **Ram Chandra TIWARI** (Ehime University)<br>*Uncertainty to explore suspected anomaly in the main impact zone of Langtang snow avalanche* |
| 14:00-14:10 | **Coffee Break** | |
| | **Youth Forum 3**<br>(Meeting Room No.1) | **Youth Forum 4**<br>(Meeting Room No.2) |
| **Chairperson** | **Xilin XIA, Yan XU** | **Hong SUN, Hufeng YANG** |
| 14:10-14:25 | **Hua LI** (Chang'an University)<br>*A new method for measuring the soil water characteristic function and permeability function of unsaturated soil with filter paper* | **Fikri FARIS** (Universitas Gadjah Mada)<br>*Monitoring and mitigation plan of rainfall induced landslide creep movement of Cimanuk River Dam, Sumedang, Indonesia* |
| 14:25-14:40 | **Kounghoon NAM** (Shimane University)<br>*Landslide susceptibility mapping considering swelling clay mineral* | **Yutian KE** (Lanzhou University)<br>*Landscape hazards in Danxia landform of Kongtong Mountain* |
| 14:40-14:55 | **Yang YANG** (Tongji University)<br>*Mechanical properties of sands subjected to local particle loss* | **Yaolong HUANG** (Jilin University)<br>*Geological tectonic control on the landslide of the West open-pit mine in Fushun city, China* |
| 14:55-15:10 | **Jie XU** (Tongji University)<br>*Effect of drying-wetting cycles on aggregate breakdown for yellow-brown earths in karst areas* | **Hong WANG** (Jilin University)<br>*The rubber protective structure design of shed tunnel and its buffer mechanism research under impact load* |
| 15:10-15:25 | **Prakash DHUNGANA** (Shimane University)<br>*Subsidence cause investigation on the Shinjiko embankment by microtremor chain array survey* | **Kongming YAN** (Southwest Jiaotong University)<br>*Seismic responses of deep buried pipeline under non-uniform excitations from large scale shaking table test* |
| 15:25-15:40 | **Yuanyuan ZHOU** (Tongji University)<br>*Research on the influence of seepage on the unsaturated landslide dam* | **Shuai ZHANG** (Shimane University)<br>*Formation mechanism of large landslides triggered by earthquakes in tianshui loess hilly region* |

| | | |
|---|---|---|
| 15:40-15:55 | **Yingying TIAN** (Institute of Geology, China Earthquake Administration)<br>*A model coupled with artificial neural network (ANN) for assessment of susceptibility to earthquake-induced landslides* | **Chengpeng LING**<br>(Chengdu University of Technology)<br>*A laboratory study of the correlation between electrical resistivity and matric suction of the loess* |
| 15:55-16:10 | **Chenxiao TANG**<br>(University of Twente)<br>*Analyzing post-earthquake landslide activity using multi-temporal landslide inventories near the epicentral area of the 2008Wenchuan earthquake* | **Kentaro KURIBAYASHI**<br>(Eight-Japan Engineering Consultants Inc.)<br>*Study on tsunami-resistance of a reinforced soil wall based on water tank experiment* |
| 16:10-16:25 | **Xiaoya WANG** (Taiyuan University of Technology)<br>*Research on the prediction method of starting water content of natural loess landslide* | **Rong ZHOU** (Qingdao University of Technology)<br>*Fast shear behavior of saturated and dry Loess at South Plateau Landslide of Jingyang, Shanxi* |
| 16:25-16:40 | **Yangjuan BAO** (Tongji University)<br>*SPH simulation for entire process of Tangjiashan landslide under the action of earthquake* | **Xiaohang SHAO** (Tongji University)<br>*Landslide movement mechanism analysis using LiDAR technique through point cloud change detection* |
| 16:40-17:30 | **Visit the laboratories in Kyoto University**<br>**(Ring shear apparatus & Centrifuge apparatus)** | |
| 17:30-19:30 | **Closing Ceremony & Farewell Party** | |

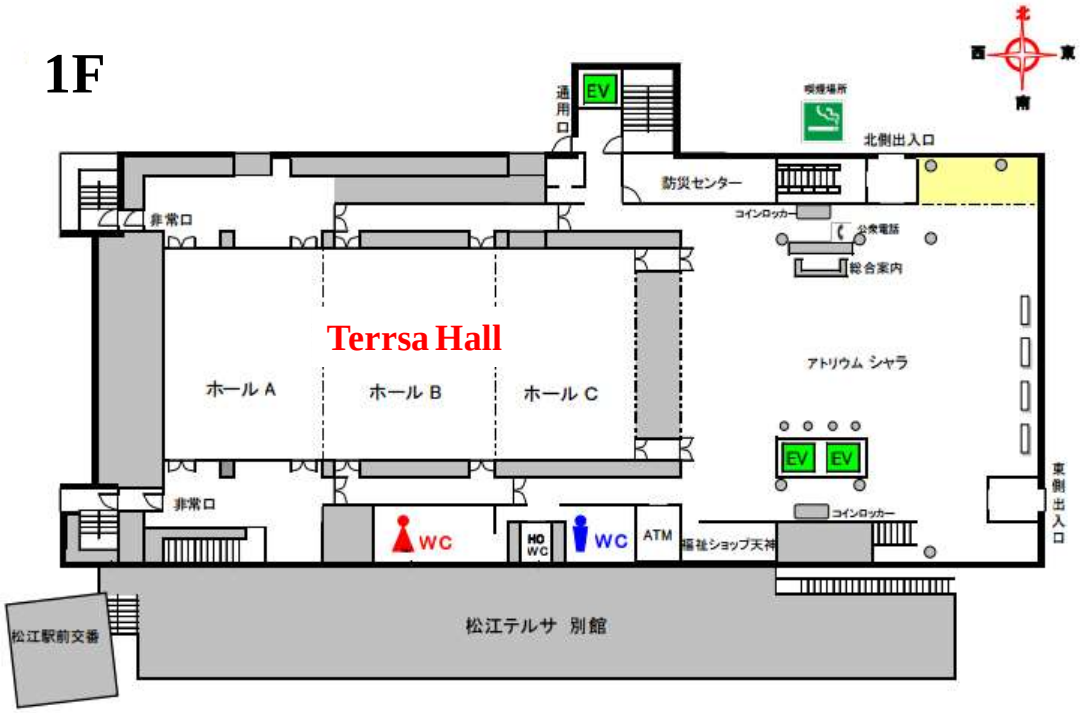
# Venue Floor Plan

## Terrsa, Matsue


★ Terrsa, Matsue (Main venue)
1 Hotel Alpha-1
2 Universal Hotel
3 Green Rich Hotel
O Matsue Station
4 Dormy inn express
5 Excel Hotel Tokyu
6 Hotel Ichibata (Welcome Banquet)

Location of the venues and surrounding hotels in Matsue

Terrsa, Asahi-cho, Matsue  Tel: 0852-31-5550
Add: 478-18 Asahimachi, Matsue, Shimane Prefecture

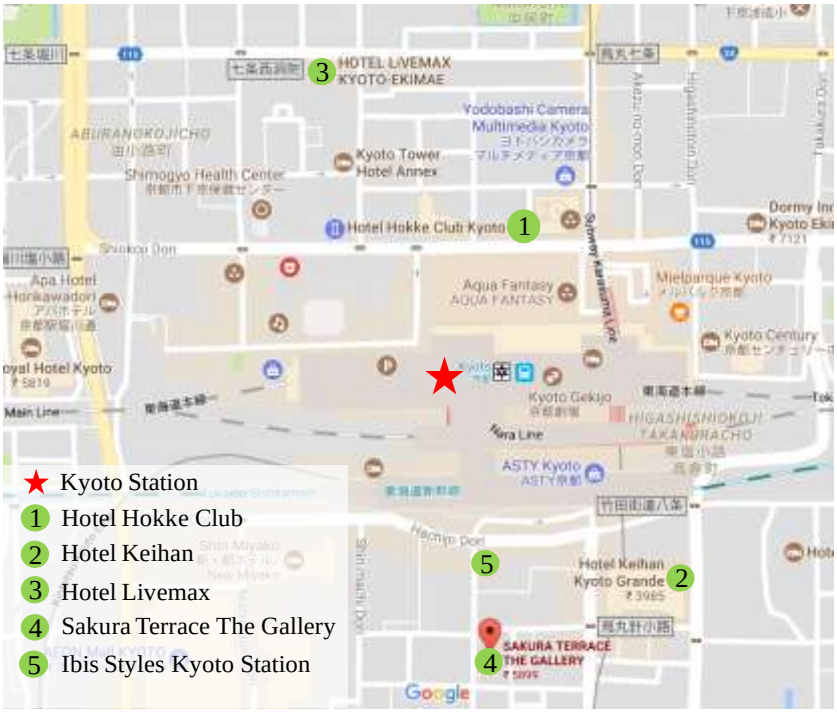



Plan of 1F, Terrsa, Matsue


Plan of 4F, Terrsa, Matsue

# Obaku Plaza, Kyoto

Take the Nara Line of JR train (240 JPY), get off at the Obaku station (08:13-08:37). The way from the Obaku station to the Obaku Plaza is shown in the following figure.

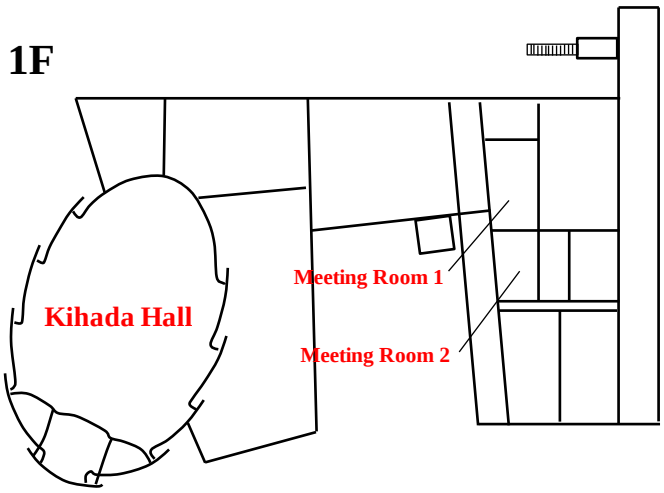



Location of the hotels near the Kyoto Station

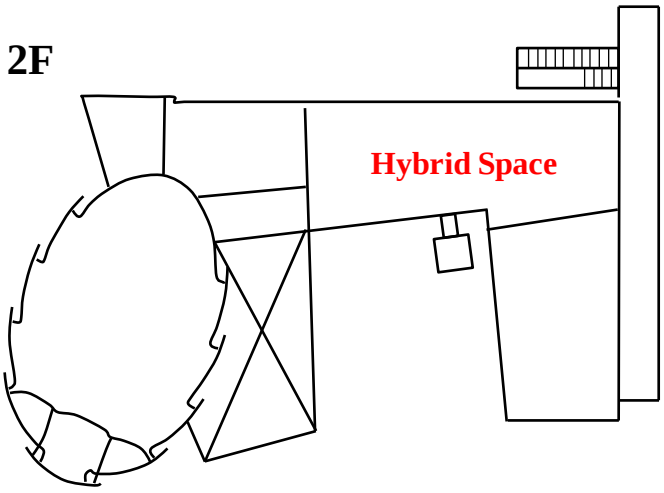

Location of the O-baku Plaza and the JR Station

Obaku Plaza, Uji, Kyoto Tel: 0774-38-4394

Add: 611-0011 Kyōto-fu, Uji-shi, Gokashō, Kashiwada−67−1




Plan of 1F, Obaku Plaza, Uji, Kyoto




Plan of 2F, Obaku Plaza, Uji, Kyoto

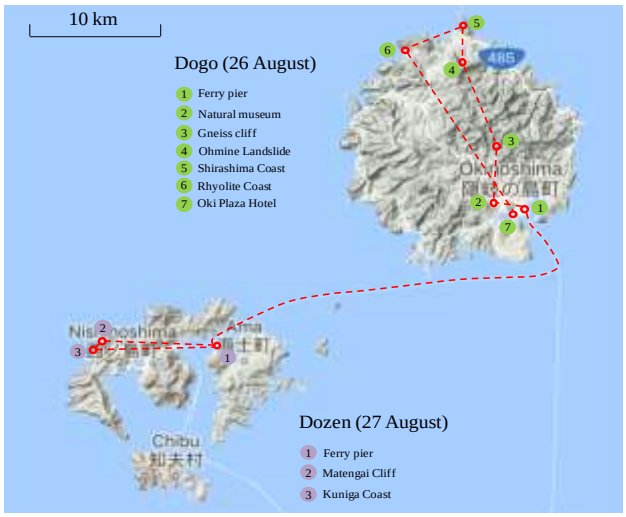
# Field Excursion (Oki Islands)

**26 August:**

Departure time: 07:40 am, 26 August;

Gathering place: South gate of the JR Matsue Station.

| | |
|---|---|
| 09:00-11:30 | Travel from Shichirui Port to Dogo by Ferry; |
| 12:30-14:00 | Natural Museum; |
| 14:00-14:30 | Gneiss cliff investigation; |
| 14:30-15:30 | Ohmine Landslide investigation; |
| 15:30-16:30 | Shirashima Coast investigation; |
| 16:30-17:30 | Coastal erosion investigation; |
| 18:00-20:00 | Dinner in Oki Plaza Hotel. |



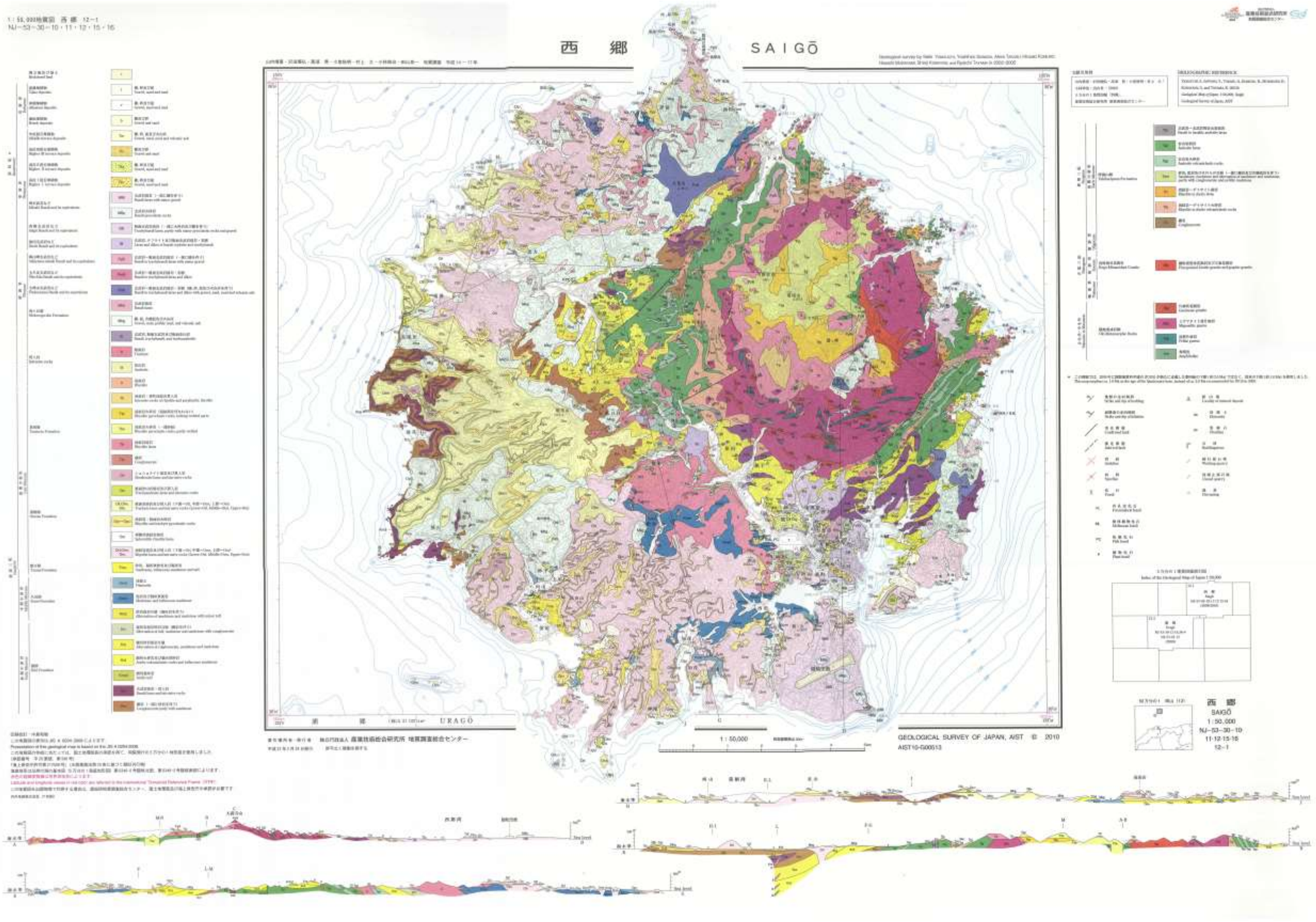

Excursion route in Oki Islands

**27 August:**

| | |
|---|---|
| 08:30-10:10 | Travel from Dogo to Dōzen by Ferry; |
| 10:30-11:30 | Rockfall investigation at Matengai Cliff; |
| 11:30-12:30 | Coastal erosion investigation at Kuniga Coast; |
| 14:10-16:00 | Travel from Dōzen to Matsue Station. |

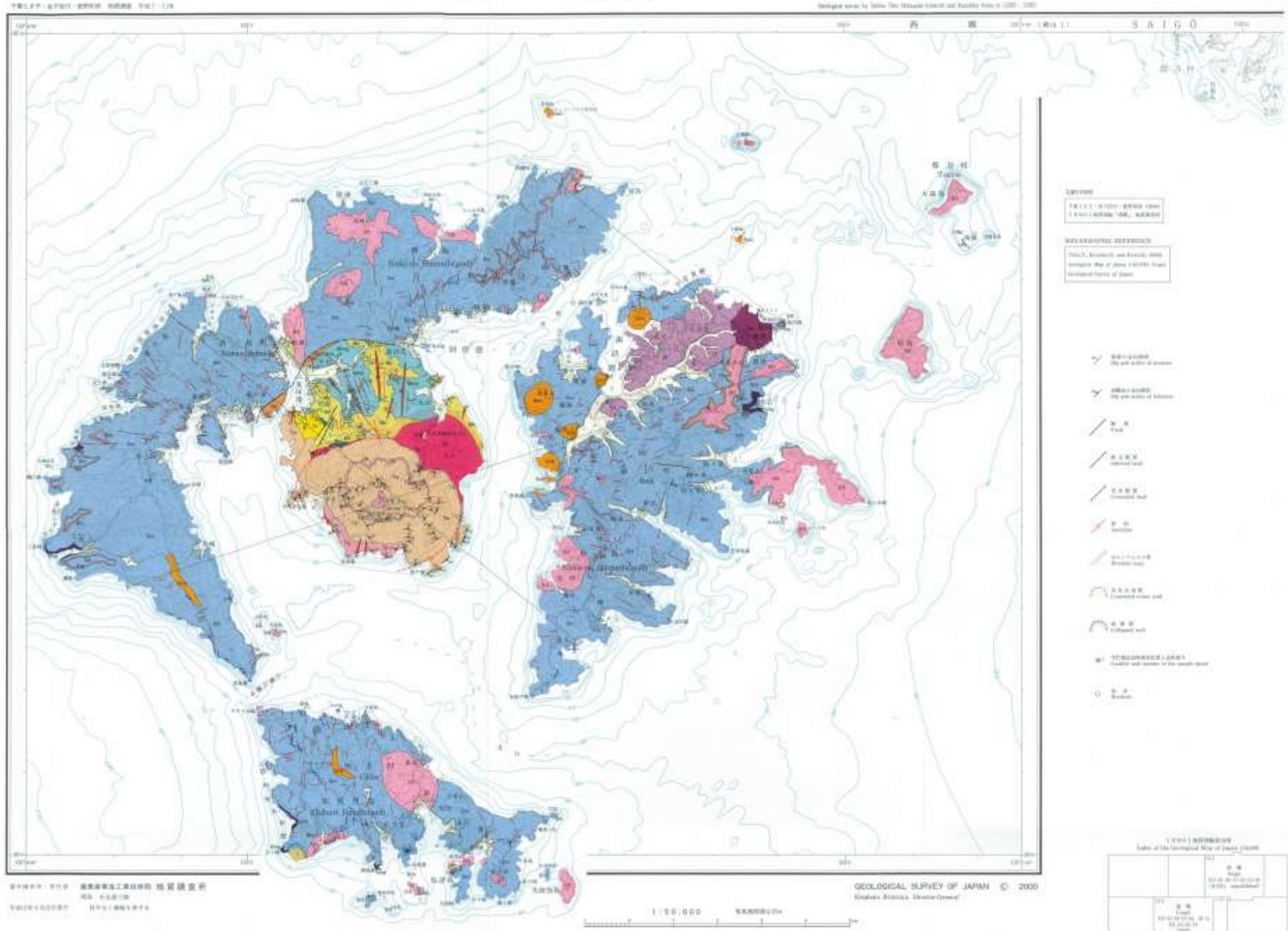
Oki Plaza Hotel

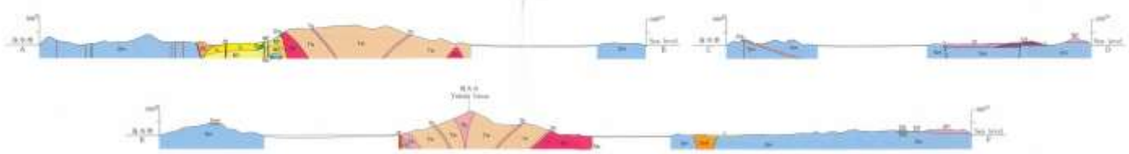
Ferry to Oki Islands


1:5万地質図 西郷 12-1
NJ-53-30-10・11・12・15・16
西　郷
SAIGŌ
URAGŌ
1 : 50,000
GEOLOGICAL SURVEY OF JAPAN, AIST © 2010
AIST10-G00513
西　郷
SAIGŌ
1 : 50,000
NJ-53-30-10
11-12-15-16
12-1

1：50,000 地質図幅 浦 郷 12-2
NJ-53-30-12-16, 36-4, NI-53-25-13

# 浦　郷　　URAGŌ





浦　郷
URAGŌ
1：50,000
NJ-53-30-12-16, 36-4,
NI-53-25-13
12-2