



# 23-24 August 2023

The 2nd International Association of Geochemistry (IAGC) Conference  
Water-Rock Interaction **WRI-17**  
Applied Isotope Geochemistry **AIG-14**  
in SENDAI 2023

Guided by  
Trencher, G. (Kyoto Univ.)

## Fukushima excursion

### Overview

We will visit the Abukuma-do (a limestone cave located in Fukushima), the Fukushima hydrogen energy research field (FH2R) which is the world's largest electrolytic hydrogen production facility, Tokyo Electric Power Company (TEPCO) Decommissioning Archive Center, and the Fukushima Nuclear Power Station damaged in a series of events by the 2011 Tohoku earthquake and tsunami.

### Schedule

Meeting: Sendai JR Station, 8:30, 23<sup>rd</sup> Aug.  
Dismissal: Iwaki JR Station, 15:00, 24<sup>th</sup> Aug.

#### Day 1 (23<sup>rd</sup> Wed.)

Meeting at Sendai JR Station

**Stop 1** Abukuma-do (limestone cave) and lunch

**Stop 2** Fukushima hydrogen energy research field (FH2R)

Stay at J-VILLAGE in Fukushima

#### Day 2 (24<sup>th</sup> Thu.)

**Stop 3** TEPCO Decommissioning Archive Center

Fukushima Nuclear Power Station

Dismissal at Iwaki JR Station



Abukuma-do

<https://www.tif.ne.jp/jp/spot.html?spot=4824>



FH2R

<https://journal.meti.go.jp/p/19831/>



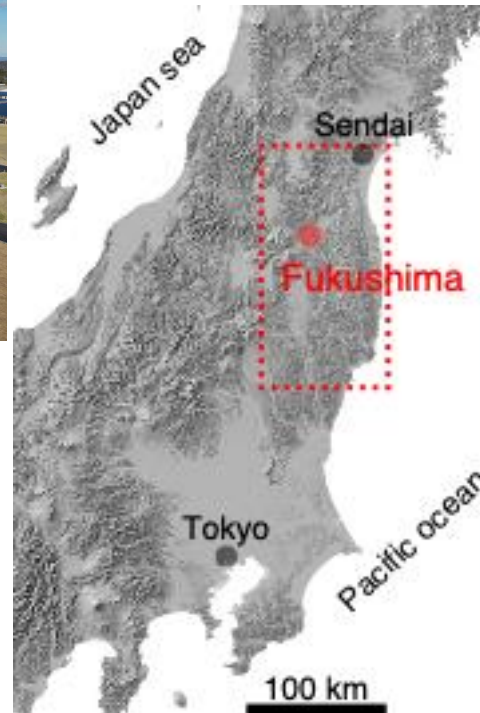
Decommissioning Archive Center

[https://www.tepco.co.jp/fukushima\\_hq/decommissioning\\_ac/](https://www.tepco.co.jp/fukushima_hq/decommissioning_ac/)



Fukushima Nuclear Power Station

[https://www.enecho.meti.go.jp/about/special/johoteikyofukushima2021\\_02.html](https://www.enecho.meti.go.jp/about/special/johoteikyofukushima2021_02.html)





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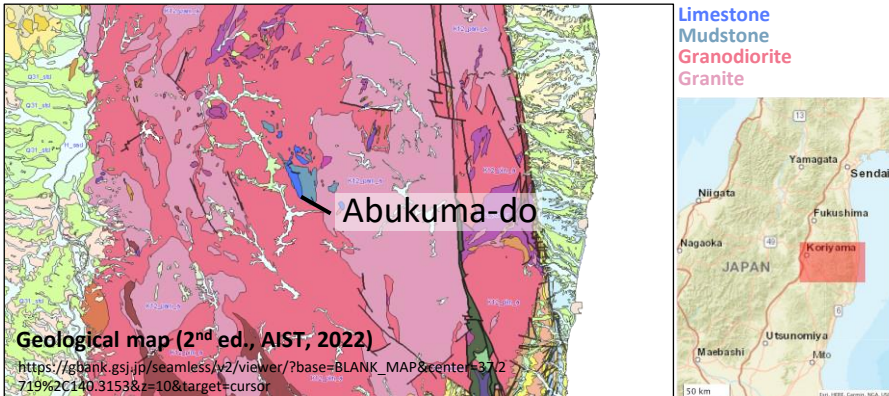
## Stop 3 TEPCO Decommissioning Archive Center Fukushima Nuclear Power Station

The Decommissioning Archive Center Fukushima Nuclear Power Station was set up to allow visitors from Japan and across the world to come and learn about the circumstances behind the tsunami and nuclear accident and actions taken since then to control the pollution and decommission the reactors and power plant. In addition, with special permission from Tokyo Electric Power Company, we will enter into the site of the nuclear power plants and inspect key features such as the equipment for cleaning contaminated waste water and dismantling the reactors.



### Stop 1 Abukuma-do

Abukuma-do is a 3000 m-long limestone cave created 80 million years. Inside the spacious caverns, numerous stalactites and stalagmites (including the “Christmas Tree” that is said to be the largest in Japan) were formed by the effect of erosion caused by groundwater.



### Stop 2 Fukushima hydrogen energy research field (FH2R)

This demonstration project produces hydrogen via water electrolysis, using renewable electricity produced by an on-site solar array (20 MW installed over 18 ha) as well as grid electricity. It has a maximum power input capacity of 10MW and can produce up to 1200 m3 of hydrogen per hour, making it the largest electrolytic-hydrogen project in the world. The project is a collaboration between the Japanese and Fukushima government as well as private companies Toshiba, Iwatani, Tohoku Electric Power Company and AsahiKasei. The project gained international attention after it supplied hydrogen for the torch used in the Tokyo Olympics. The project also demonstrates a business model for hydrogen.

