

圖片出自：顏鴻選

Introduction to Dep. of Earth Sciences, NTNU

Kate Huihsuan Chen
Chairman



國立臺灣師範大學
NATIONAL TAIWAN NORMAL UNIVERSITY

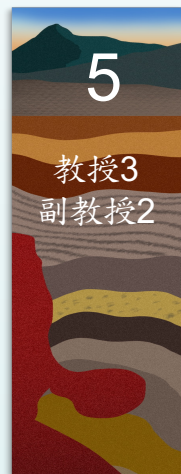
地球科學系

Department of Earth Sciences

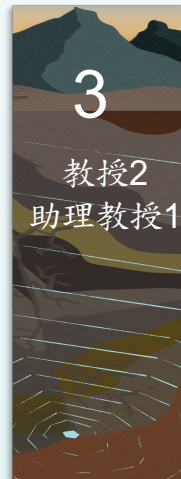
Development goal

Be critical thinkers and doers!

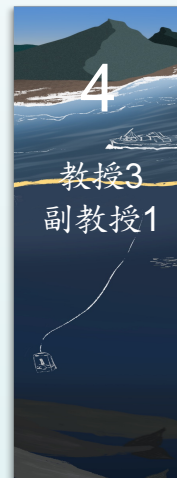
地質組
Geology



地物組
Geophysics



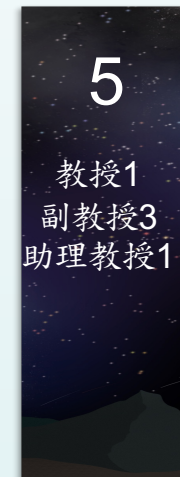
海洋
Oceanography



大氣組
Atmospheric
Sciences



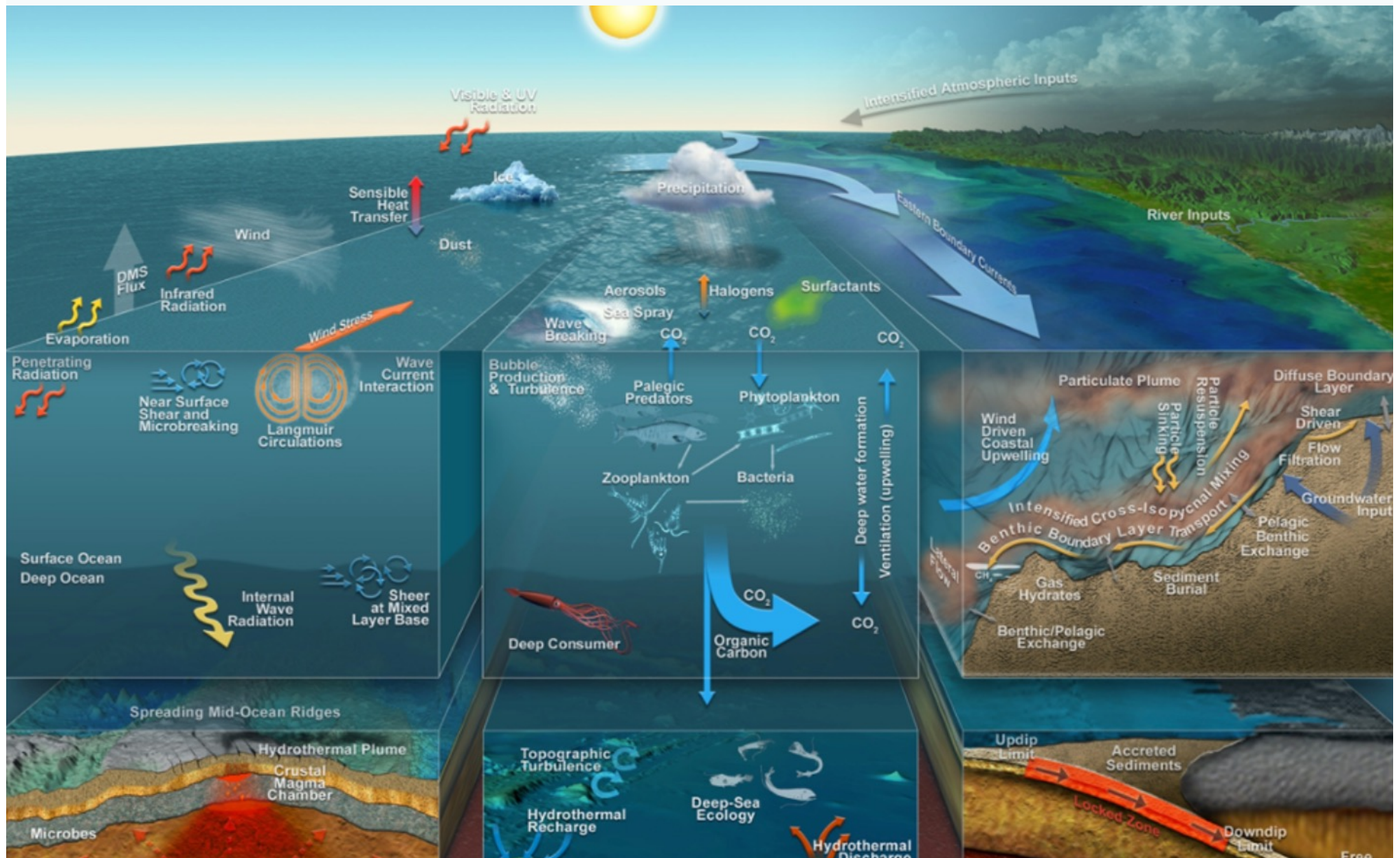
天文組
Astronomy



Through development and application of new tools and technologies, we pursue field, lab, experimental, and modeling studies of Earth and other solar system bodies .

Science of Earth and beyond is everything

Controlling our live: food, water, heat, resources, and the future



Astronomy

multiscale astrophysical phenomena

Star formation, Planetary Science, Radio astronomy, Astrochemistry, X-ray and extragalactic astronomy, Formation and evolution of galaxies

圖片出自：星天目和工作室

Atmospheric Science

multiscale weather phenomena

Climate modeling, Mesoscale, mountain, synoptic, monsoon meteorology, Severe weather system, Cloud-radiation interaction, Air-sea interaction

圖片出自：NASA網頁

Geology

multiscale geological phenomena

Geodynamics plate reconstruction, Sequence seismic stratigraphy, Regional tectonics of southeast Asia, Stable isotope geology, Paleoenvironmental change, Geochemistry, Core analysis, Igneous Petrology, Petrology

圖片出自：臺灣地質之圖

Oceanography

multiscale physical oceanography

Physical oceanography, Numerical modeling, Remote sensing, Typhoon-ocean Interaction, Regional geology, Science education

圖片出自：NASA網頁

Geophysics

multiscale geophysical phenomena

Geophysics, Geomagnetism, gravity, Planetary seismology, Observational seismology, Environmental seismology

圖片出自：NASA/JPL-Caltech



Yi-Jehng Kuan



Lin-Wen Chen



Yasuhiro Hashimoto



Wei-Ling Tseng



Yueh-Ning Lee



Chung-Chieh Wong



Cheng-Ta Chen



Fang-Ching Chien



Li-Shan Tseng



Wan-Ru Huang



Tung-Yi Lee



Hong-Sheng Mii



J. Gregory Shellnutt



En-Chao Yeh



Yu-Ling Lai



Zhe-Wen Zheng



Chau-Ron Wu



Tang-Kuang Yeh



Meng-Wan Yeh



Kuang-Jung Chen



Kate Huihsuan Chen



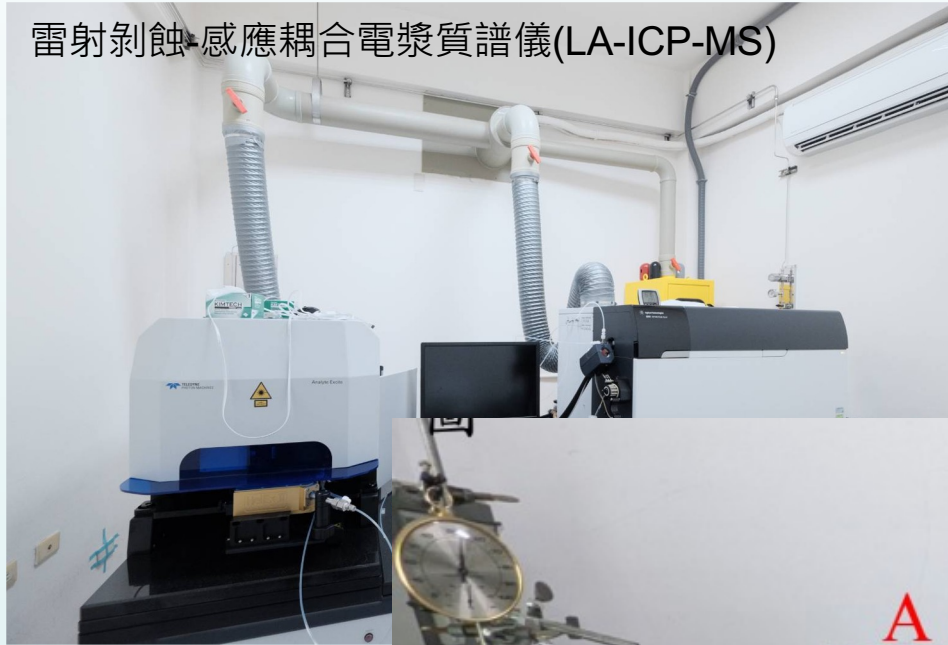
Patty Pei-Ying Lin

Lab and facilities: MS



Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

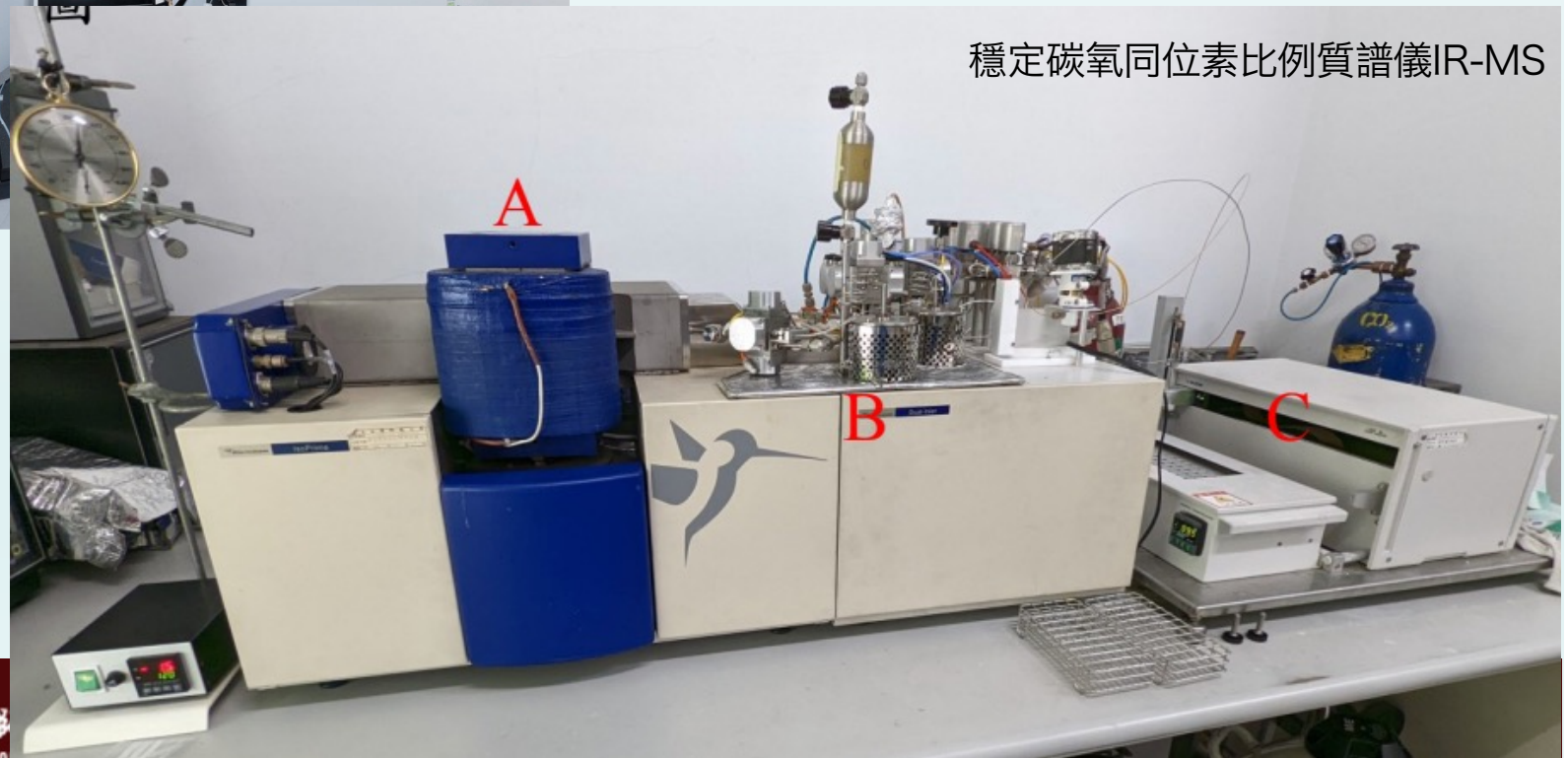
雷射剝蝕-感應耦合電漿質譜儀(LA-ICP-MS)



Mass spectrometry is one of the best techniques for analyzing the structure of a molecule.

Isotopic Ratio Mass Spectrometer

穩定碳氧同位素比例質譜儀IR-MS



Lab and facilities: MS

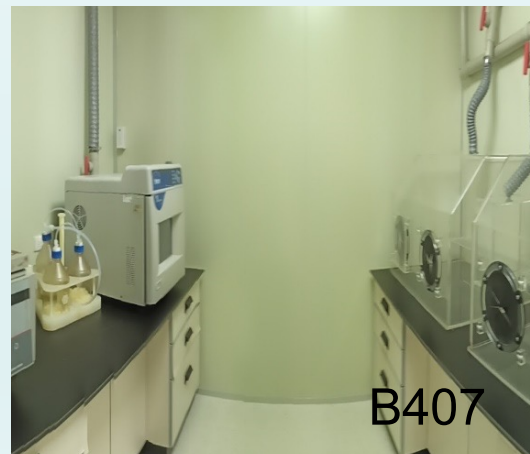


VG1200S MS

VG3600 MS

Nu Noblesse MS

$^{40}\text{Ar}/^{39}\text{Ar}$ aging lab

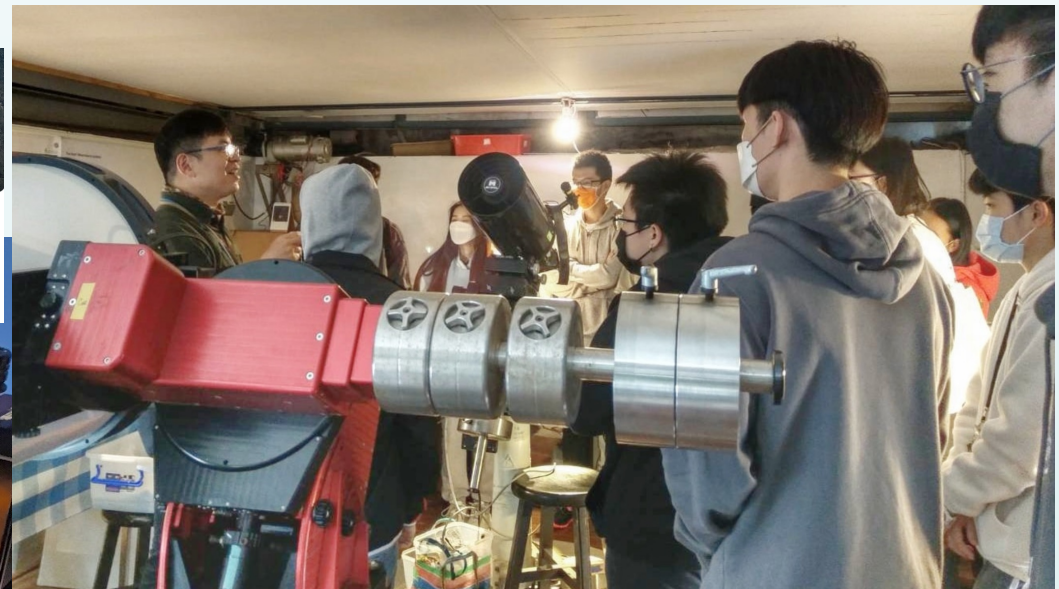


They are very powerful analytical instruments that allow the users to obtain the best quality of any data samples.

Lab and facilities: Observatory

Optical Telescopes on campus : 40cm RC16 、Paramount ME, Schmidt–Cassegrain 40cm telescope, GOTO 15cm, refractory telescope ◦

Collaboration: Optical & Infrared - Lulin 1m telescope, CFHT, Subaru; Radio - SMA, JCMT, ALMA (through EAO and ASIAA); Spacecraft missions



台長：王嘉輝



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地球科學系

Department of Earth Sciences

This is a department that you have plenty of opportunities to do outdoor surveys!

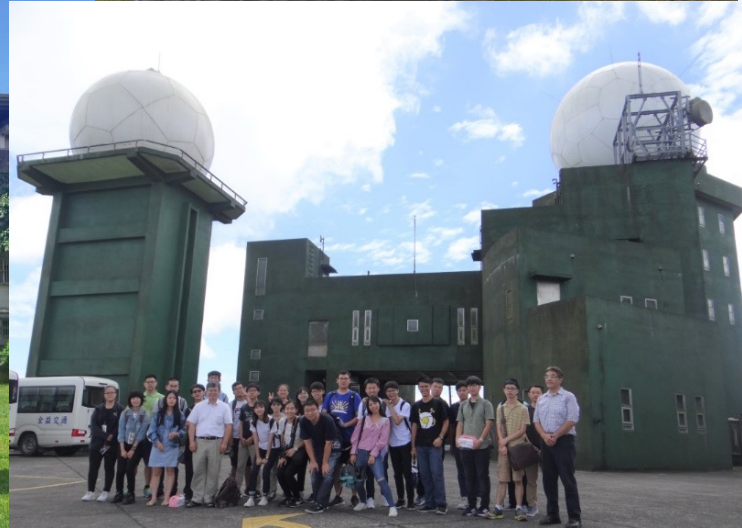


海洋

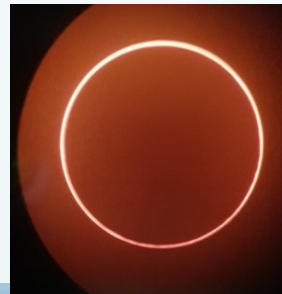
Oceanography fieldtrips



Geophysical fieldtrips



Atmospheric Science fieldtrips



天文觀測課程—110學年度鹿林天文台實習紀實

Geophysical fieldtrips



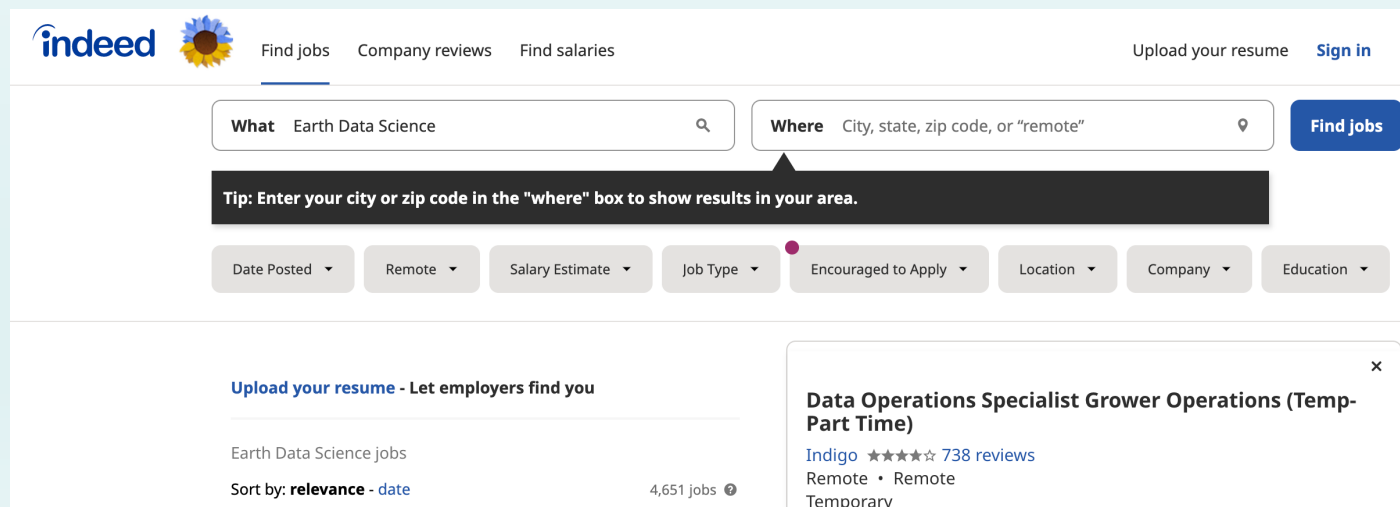
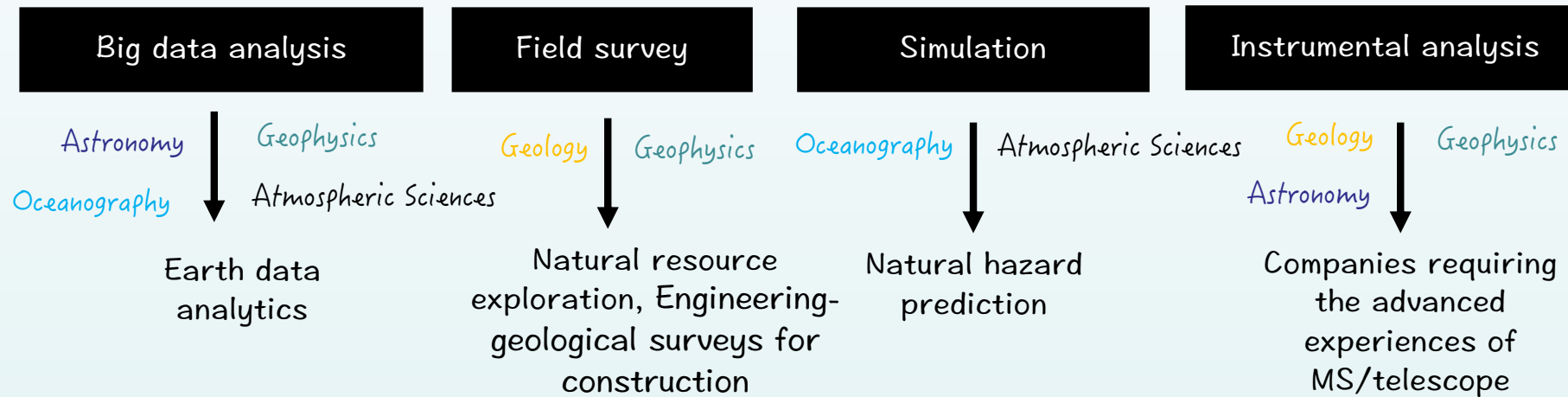
地質

Geological fieldtrips

From core ability to future career



The course and project training in individual fields allow the student to be qualified to do these:



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Joint Field Excursion of NTNU-Kyushu



Excursion Introduction



Lab Tour



2023/3/17~24

Research Cooperation?



Welcome Party



Joint Field Excursion of NTNU-Kyushu

Trip



Discussion



Presentation



Culture Exchange



Joint Field Excursion of NTNU-Kyushu



Joint Field Excursion of NTNU-Kyushu



Joint Field Excursion of NTNU-Kyushu





Joint Field Excursion of NTNU-Kyushu

Tatun Volcano Observatory

HsiaoYuKeng



DragonPhenix Valley

Sulfur Valley

