

宇野 康司

700-8530 岡山市北区津島中3-1-1

岡山大学大学院教育学研究科

理科教育講座地質学研究室

unokoji (at) okayama-u.ac.jp



研究 アジア大陸の地殻変動や、火山碎屑岩の堆積様式などについて研究しています。私はこれらの研究を、地質学と物理学に基礎を置いた古地磁気学と呼ばれる地球科学分野からアプローチしています。この分野は、天然の岩石中に含まれる磁性体から、過去の大陸が存在した位置（地球上の座標）や、岩体が経験した熱履歴を明らかにするものです。

査読のある論文 (Koji Uno, 宇野康司)

- (36) Masako Miki, Hanae Seki, Yuhji Yamamoto, Chitaro Gouzu,  
Hironobu Hyodo, **Koji Uno**, Yo-ichiro Otofuji  
Paleomagnetism, Paleointensity and Geochronology of a Proterozoic  
dolerite dyke from southern West Greenland  
(Journal of Geodynamics, 139, 101752, 2020)
- (35) **Koji Uno**, Kuniyuki Furukawa, Kotaro Nakai, Takuma Kamio,  
Tatsuo Kanamaru  
Deformation of rhyolite lava crust associated with intermittent  
inner flow of lava: palaeomagnetic evidence  
(Geophysical Journal International, 220, 190-200, 2020)
- (34) Kuniyuki Furukawa, **Koji Uno**, Tatsuo Kanamaru, Kotaro Nakai  
Structural variation and the development of thick rhyolite lava: a case  
study of the Sanukayama rhyolite lava on Kozushima Island, Japan  
(Journal of Volcanology and Geothermal Research, 369, 1-20, 2019)
- (33) 宇野康司  
西南日本の層状チャートの古地磁気学  
(地質学雑誌, 124, 967-981, 2018)
- (32) Katsumi Ueno, Yoshihito Kamata, **Koji Uno**, Thasinee Charoentitirat,  
Punya Charusiri, Khamseng Vilaykham, Rossana Martini  
The Sukhothai Zone (Permian–Triassic island-arc domain of  
Southeast Asia) in Northern Laos: Insights from Triassic carbonates  
and foraminifers  
(Gondwana Research, 61, 88-99, 2018)

(31) **Koji Uno**, Kuniyuki Furukawa, Yuri Hatanaka

An analysis of apparent polar wander path for southwest Japan suggests no relative movement with respect to Eurasia during the Cretaceous  
(Physics of the Earth and Planetary Interiors, 267, 19-30, 2017)

(30) Yo-ichiro Otofujii, Yuji T. Moriyama, Maiko P. Arita, Masanari Miyazaki, Kosuke Tsumura, Yutaka Yoshimura, Mustaffa Kamal Shuib, Masatoshi Sone, Masako Miki, **Koji Uno**, Yutaka Wada, Haider Zaman

Tectonic evolution of the Malay Peninsula inferred from Jurassic to Cretaceous paleomagnetic results  
(Journal of Asian Earth Sciences, 134, 130-149, 2017)

(29) Yukiho Tsuchiyama, Haider Zaman, Sieng Sotham, Yos Samuth, Eiichi Sato, Hyeon-Seon Ahn, **Koji Uno**, Kosuke Tsumura, Masako Miki, Yo-ichiro Otofujii

Paleomagnetism of Late Jurassic to Early Cretaceous red beds from the Cardamom Mountains, southwestern Cambodia: Tectonic deformation of the Indochina Peninsula  
(Earth and Planetary Science Letters, 434, 274-288, 2016)

(28) **Koji Uno**, Daisuke Yamashita, Tetsuji Onoue, Daiki Uehara  
Paleomagnetism of Triassic bedded chert from Japan for determining the age of an impact ejecta layer deposited on peri-equatorial latitudes of the paleo-Pacific Ocean: A preliminary analysis  
(Physics of the Earth and Planetary Interiors, 249, 59-67, 2015)

(27) Ryutaro J. Ichihashi, Haider Zaman, Yutaka Wada, Yoshiaki Sugamori, Yohei Kajikawa, Hyeon-Seon Ahn, **Koji Uno**, Petr S. Zimin, Vladimir G. Sakhno, Yo-ichiro Otofujii

Paleomagnetic evidence for post-Early Cretaceous tectonic rotation of the Sikhote-Alin Superterrane, Far East Russia  
(Journal of Asian Earth Sciences, 111, 88-99, 2015)

(26) Kuniyuki Furukawa, **Koji Uno**

Origin and deformation of high porosity bands in the Takanoobane  
Rhyolite lava of Aso volcano, Japan

(Journal of Volcanology and Geothermal Research, 305, 76-83, 2015)

(25) **Koji Uno**, Kuniyuki Furukawa, Hayato Ando,  
Taro Shinmura, Masaya Miyoshi

Instantaneous record of the geomagnetic field direction of various facies from  
pyroclastic flow deposits: Tests for consistency in paleomagnetic directions

(Physics of the Earth and Planetary Interiors, 235, 96-106, 2014)

(24) Kuniyuki Furukawa, **Koji Uno**, Taro Shinmura, Masaya Miyoshi,  
Tatsuo Kanamaru, Hiroo Inokuchi

The origin and emplacement mode of lithic-rich breccias at Aso Volcano, Japan:  
Geological, paleomagnetic, and petrological reconstruction

(Journal of Volcanology and Geothermal Research, 276, 22-31, 2014)

(23) Masaya Miyoshi, Taro Shinmura, Hirochika Sumino, Takashi Sano,  
Yasuo Miyabuchi, Yasushi Mori, Hirohito Inakura, Kuniyuki Furukawa,  
**Koji Uno**, Toshiaki Hasenaka, Keisuke Nagao, Yoji Arakawa, Junji Yamamoto

Lateral magma intrusion from a caldera-forming magma chamber:  
Constraints from geochronology and geochemistry of volcanic  
products from lateral cones around the Aso caldera, SW Japan

(Chemical Geology, 352, 202-210, 2013)

(22) **Koji Uno**, Yoko Kaneshige, Kuniyuki Furukawa,  
Taro Shinmura, Masaya Miyoshi

Paleomagnetic investigation of rhyolite lava: Is rhyolite with clearly  
marked flow structure a high-fidelity geomagnetic field recorder?

(Earth, Planets and Space, 65, 331-336, 2013)

(21) Masaya Miyoshi, Hirochika Sumino, Yasuo Miyabuchi,  
Taro Shinmura, Yasushi Mori, Toshiaki Hasenaka,  
Kuniyuki Furukawa, **Koji Uno**, Keisuke Nagao

K–Ar ages determined for post-caldera volcanic products  
from Aso volcano, central Kyushu, Japan

(Journal of Volcanology and Geothermal Research, 229-230, 64-73, 2012)

(20) **Koji Uno**, Tetsuji Onoue, Kazumasa Hamada, Saki Hamami

Palaeomagnetism of Middle Triassic red bedded cherts from southwest Japan:  
equatorial palaeolatitude of primary magnetization  
and widespread secondary magnetization

(Geophysical Journal International, 189, 1383-1398, 2012)

(19) **Koji Uno**, Kuniyuki Furukawa, Shigeki Hada

Margin-parallel translation in the western Pacific:  
Paleomagnetic evidence from an allochthonous terrane in Japan

(Earth and Planetary Science Letters, 303, 153-161, 2011)

(18) Kuniyuki Furukawa, **Koji Uno**, Isoji Miyagi

Mechanisms of oxidation and degassing in the Takanoobane  
Rhyolite Lava of Aso Volcano, Japan

(Journal of Volcanology and Geothermal Research, 198, 348-354, 2010)

(17) Masako Miki, Aya Taniguchi, Masahiko Yokoyama, Chitaro Gouzu, Hironobu Hyodo, **Koji Uno**, Haider Zaman, Yo-ichiro Otofujii  
Palaeomagnetism and geochronology of the Proterozoic dolerite dyke from southwest Greenland: indication of low palaeointensity  
(Geophysical Journal International, 179, 18-34, 2009)

(16) Kenji Tanaka, Chuanlong Mu, Ken Sato, Kazuhiro Takemoto, Daisuke Miura, Yuyan Liu, Haider Zaman, Zhenyu Yang, Masahiko Yokoyama, Hisanori Iwamoto, **Koji Uno**, Yo-ichiro Otofujii  
Tectonic deformation around the eastern Himalayan syntaxis: constraints from the Cretaceous palaeomagnetic data of the Shan-Thai Block  
(Geophysical Journal International, 175, 713-728, 2008)

(15) Yasuto Itoh, **Koji Uno**, Hiroyuki Arato  
Seismic evidence of divergent rifting and subsequent deformation in the southern Japan Sea, and a Cenozoic tectonic synthesis of the eastern Eurasian margin  
(Journal of Asian Earth Sciences, 27, 933-942, 2006)

(14) **Koji Uno**, Kuniyuki Furukawa  
Timing of remanent magnetization acquisition in red beds: A case study from a syn-folding sedimentary basin  
(Tectonophysics, 406, 67-80, 2005)

(13) **Koji Uno**, Tae Woo Chang, Kuniyuki Furukawa  
Tectonic elements of South China affinity in the Korean Peninsula: new Early Jurassic palaeomagnetic data  
(Geophysical Journal International, 158, 446-456, 2004)

(12) **Koji Uno**, Baochun Huang

Constraints on the Jurassic swing of the apparent polar wander path  
for the North China Block

(Geophysical Journal International, 154, 801-810, 2003)

(11) Ki-Hong Chang, Kazuhiro Suzuki, Sun-Ok Park, Keisuke Ishida, **Koji Uno**

Recent advances in the Cretaceous stratigraphy of Korea

(Journal of Asian Earth Sciences, 21, 937-948, 2003)

(10) **Koji Uno**, Yo-ichiro Otofujii, Takaaki Matsuda, Kuniyuki Furukawa,

Toshiaki Mishima, Yoshiki Kuniko, Ryo Enami, Ruslan G. Kulinich,

Petr S. Zimin, Anatoly P. Matunin, Vladimir G. Sakhno

An example of multicomponent magnetization in welded tuffs:  
a case study of Upper Cretaceous welded tuffs of eastern Russia

(Journal of Asian Earth Sciences, 21, 431-439, 2003)

(9) Yo-ichiro Otofujii, Takaaki Matsuda, Ryo Enami, **Koji Uno**,

Katsuhiko Nishihama, Nadir Halim, Li Su, Haider Zaman, Ruslan G. Kulinich,

Petr S. Zimin, Anatoly P. Matunin, Vladimir G. Sakhno

Late Cretaceous palaeomagnetic results from Sikhote Alin, far  
eastern Russia: tectonic implications for the eastern margin

of the Mongolia Block

(Geophysical Journal International, 152, 202-214, 2003)

(8) **Koji Uno**

Late Cretaceous palaeomagnetic results from Southwest Japan:  
new insights for early Cenozoic clockwise rotation

(Geophysical Journal International, 149, 617-624, 2002)

(7) Yo-ichiro Otofujii, Takaaki Matsuda, Ryo Enami, **Koji Uno**,

Katsuhiko Nishihama, Su Li, Ruslan G. Kulinich, Petr S. Zimin,  
Anatoly P. Matunin, Vladimir G. Sakhno

Internal deformation of Sikhote Alin volcanic belt, far eastern

Russia: Paleocene paleomagnetic results

(Tectonophysics, 350, 181-192, 2002)

(6) **Koji Uno**

Clockwise rotation of the Korean Peninsula with respect to  
the North China Block inferred from an improved Early Triassic  
palaeomagnetic pole for the Ryeongnam Block

(Geophysical Journal International, 143, 969-976, 2000)

(5) **Koji Uno**, Ki-Hong Chang

Paleomagnetic results from the lower Mesozoic Daedong Supergroup  
in the Gyeonggi Block, Korean Peninsula:

an eastern extension of the South China Block

(Earth and Planetary Science Letters, 182, 49-59, 2000)



- (4) Yo-ichiro Otofujii, **Koji Uno**, Takahiro Higashi, Tomomichi Ichikawa,  
Tsuyoshi Ueno, Toshiaki Mishima, Takaaki Matsuda  
Secondary remanent magnetization carried by magnetite inclusions in silicates:  
A comparative study of unremagnetized and remagnetized granites  
(Earth and Planetary Science Letters, 180, 271-285, 2000)
- (3) **Koji Uno**  
Paleomagnetic results of the Late Permian Gobangsan Formation,  
Korean Peninsula: Remagnetization in the southeastern periphery of the  
Bagjisan Syncline  
(Earth, Planets and Space, 52, 175-182, 2000)
- (2) **Koji Uno**  
Early Triassic palaeomagnetic results from the Ryeongnam Block,  
Korean Peninsula: the eastern extension of the North China Block  
(Geophysical Journal International, 139, 841-851, 1999)
- (1) **Koji Uno**, Yo-ichiro Otofujii, Takaaki Matsuda, Yoshiki Kuniko, Ryo Enami,  
Ruslan G. Kulinich, Petr S. Zimin, Anatoly P. Matunin, Vladimir G. Sakhno  
Late Cretaceous paleomagnetic results from Northeast Asian  
continental margin: The Sikhote Alin mountain range, eastern Russia  
(Geophysical Research Letters, 26, 553-556, 1999)