

This file contains email receipts and tracking record of samples for our study. In order, it contains:

P2-4 Results for day 1 as emailed to our HVO collaborator.

P5 Results for day 2

P6 Results for day 4

P7-10 Tracking record of the sample shipping

P11 Nature Geoscience submission confirmation from Research Square

P12-13 Nature Geoscience submission receipt from N. Geoscience editorial office

P14 Nature Geoscience email about editorial delays that led to a decision 1 month after submission

P15 Submission confirmation from PNAS

P16 Decision from PNAS

P17 Initial submission to JPET

P18-19 JPET decision

P20 Submission to Science Advances

P21-22 Decision from Science Advances

P23 Rebuttal of JPET decision, after revisions (resubmitted as a new manuscript).

P24-25 Decision from JPET.



Penny Elaine Wieser <penny_wieser@berkeley.edu>

Prelim results

Penny Elaine Wieser <penny_wieser@berkeley.edu>
To: "Lynn, Kendra J" <klynn@usgs.gov>

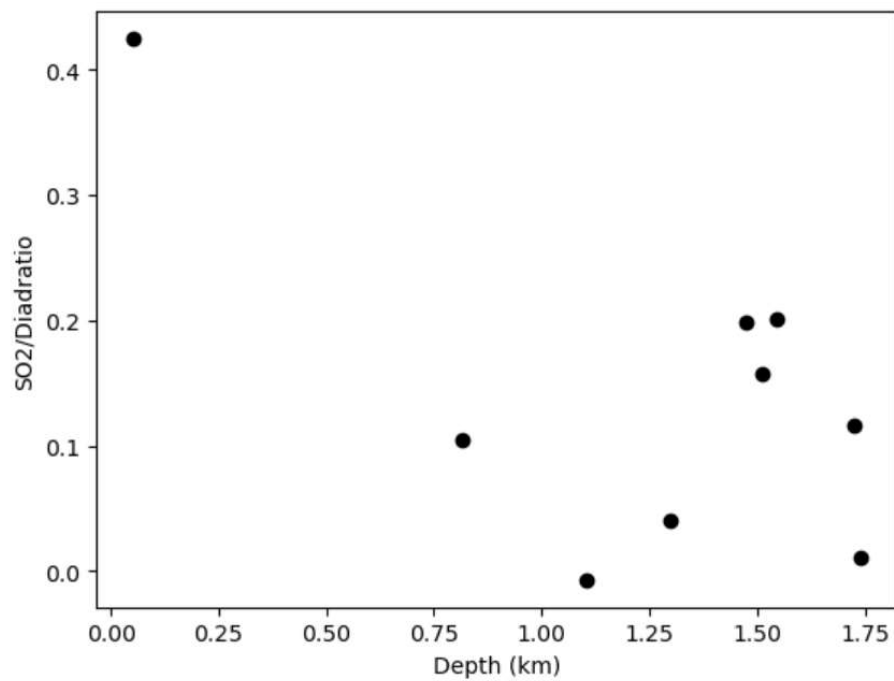
Wed, Sep 20, 2023 at 6:44 PM

Hi Kendra,

First 10 FI are analysed. See depths below using the Ryan-Lerner density model for Kilauea. The y axis is related to the % SO₂ in the fluid - basically a measure of 'degassing' so we would discard the lower one as degassed. Unsuprisingly, HMM reservoir, but we think its cool none the less!

We have ~20 more FI ready to analyse first thing tomorrow morning. Those results will be in by the end of day tomorrow. My students will be prepping more during the day too. Probably get 30-40 pressures total in 3 days. Enough to define the reservoir very well. To clarify, this is actually the labour of 1 person for 1 day, I started crushing + sieving (9-930 while training my grad student how to do so), picking (930-11), prepping (12-145) and Ramaning (1:45-530) to get started. My students/postdoc prepped FI all day so that we can Raman all day long tomorrow. So it only gets faster from here!

Plan is to get Forsterite contents using the EDS here on monday (The earliest we can get on). We will run some Kilauea olivines we measured at stanford and Cam to assess precision/accuracy + normal sec standards. Any chance you have glass EPMA yet so we can assess ol-liq equilibrium (or approx whole-rock MgO-FeO as not to phyrical). Else we will run a few glass spots!



--

Penny Wieser (she/her)
Assistant Professor
Earth and Planetary Science
UC Berkeley
<https://sites.google.com/view/penny-wieser>

Results for our (timestamped) records

Penny Elaine Wieser <penny_wieser@berkeley.edu>

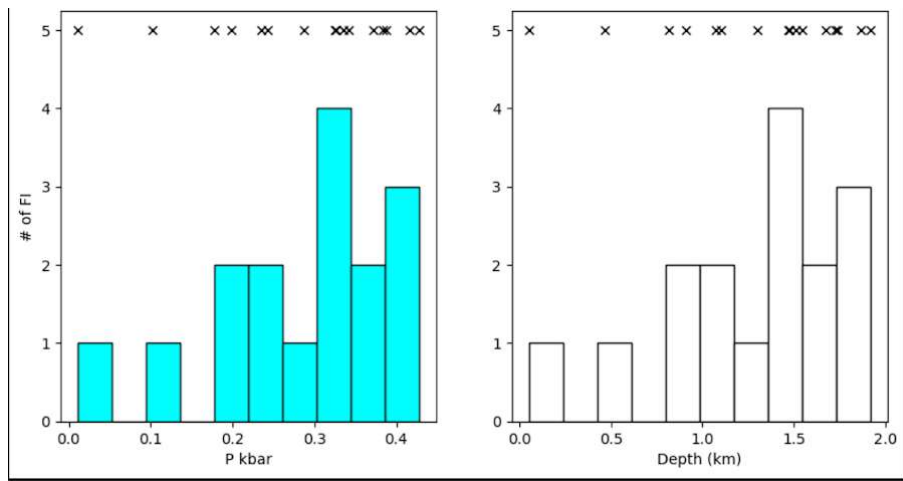
Wed, Sep 20, 2023 at 7:13 PM

To: "Lynn, Kendra J" <klynn@usgs.gov>

Hi Kendra,

Here are the finalized results for day1. 16 FI in total. Histogram and individual measurements shown in black. Will fill out distribution more tomorrow.

Lowest 2 show some textural and chemical signs of being trapped upon ascent to the surface.



--

Penny Wieser (she/her)
Assistant Professor
Earth and Planetary Science
UC Berkeley
<https://sites.google.com/view/penny-wieser>



Penny Elaine Wieser <penny_wieser@berkeley.edu>

Day 2 results

Penny Elaine Wieser <penny_wieser@berkeley.edu>
 To: "Lynn, Kendra J" <klynn@usgs.gov>
 Cc: Charlotte Laila Justine Devitre <cdevitre@berkeley.edu>

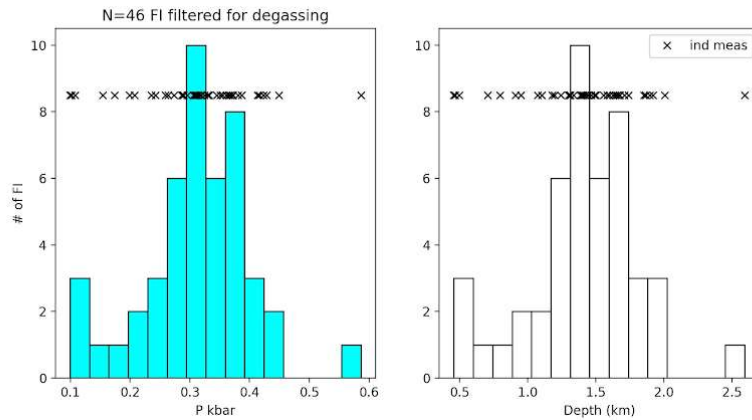
Thu, Sep 21, 2023 at 8:24 PM

Hi Kendra,

Please see Day 2 results attached. 46 FI, with a preliminary filter applied for degassing. Individual measurements in black as well as histograms. Still nothing from SC reservoir, despite the much larger N. With this N in older eruptions we do start picking up the SC reservoir, so pretty confident no contribution. Fo contents on Saturday will confirm that for sure - our tests today on the samples Charlotte probed at USGS show we can reproduce the Fo almost exactly, so old EDS system doing well.

Follow up email with more info about our writing plans, but sending this for our records! Feel free to share with HVO. We would also love to contribute to a Volcano watch or any other sci com format USGS uses for these sort of collabs.

The Berkeley team contributing to this is: Raman+FI: Charlotte DeVitre, Penny Wieser, Raela Richie, Berenise Rangel, Alex Bearden. EDS- Matthew Gleeson, John Grimsich



--

Penny Wieser (she/her)
 Assistant Professor
 Earth and Planetary Science
 UC Berkeley
<https://sites.google.com/view/penny-wieser>

Day 4 results

Charlotte Laila Justine Devitre <cdevitre@berkeley.edu>

Sat, Sep 23, 2023 at 7:17 PM

To: klynn@usgs.gov

Cc: Penny Elaine Wieser <penny_wieser@berkeley.edu>

Hi Kendra,

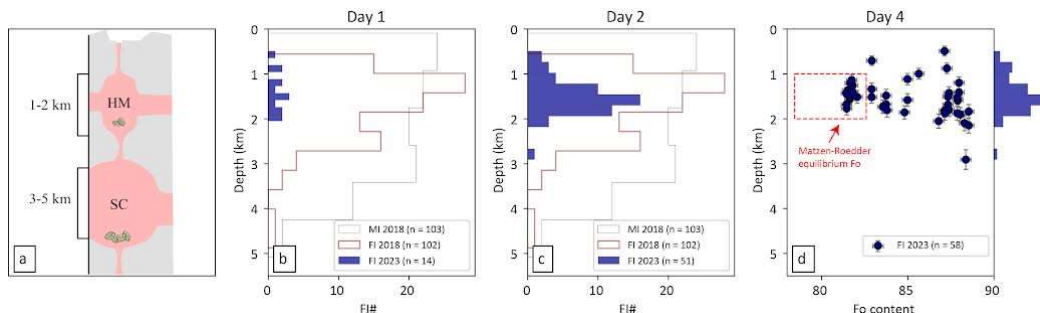
See Day 4 results attached with our EDS Fo contents! (panel d). This is now our Figure 2 for the paper, which we have made some good progress on today! You can see in panels b and c the data collected for the 2018 LERZ eruption using the same sample splits as Penny used for her MI work. For the LERZ, our FI method yielded the same results as MI work, within uncertainty; So, it's not an artifact of the method or undersampling, rather we really think that the HMM reservoir is likely the one that supplied the eruptive melt.

I am adding here our current paragraph of interpretations:

Our results clearly show that the majority of FI were entrapped ~1-2 km (Fig.2 a-d), which aligns well with the depth of the Hale'au'au reservoir revealed by geophysical studies (Anderson et al., 2012,2016,2019), Melt Inclusion barometry (Wieser et al., 2021; Lerner et al., 2021), and FI barometry (Devitre and Wieser, 2023). While the larger number of analyses from data processed on Day 2 and Day 4 certainly build up the picture, it is notable that the correct storage reservoir was identified with the depths we obtained within a day. Rapid EDS analyses of olivine compositions close to each fluid inclusion reveal that olivines grew from a wide range of melt compositions. It is interesting to note that FI in the cores of high-Fo olivines return pressures indicative of the shallower HMM reservoir – it has been suggested in previous eruptions that these high Fo olivines predominantly grow in the deeper South Caldera Reservoir (3-5 km), where high MgO melts are thought to arise. We suggest three possible scenarios to explain the relatively shallow pressures recorded by these high Fo olivines. 1) FI in higher Fo olivines were entrapped at SC reservoir and reequilibrated at HM pressure prior to eruption. 2) High MgO melts were injected into the HMM reservoir, where high Fo olivines crystallized and trapped FI 3) Complex skeletal growth of olivine during extensive undercooling meant that relatively low pressure FI were trapped within high Fo olivine cores which grew in the SC reservoir incorporated. We think that scenario 1 is unlikely given the results of our previous work for the Kilauea 2018 LERZ eruption (Devitre and Wieser, 2023). Even with up to 2 years of stalling (Mourey et al., 2021), no more than 10% re equilibration would occur given that the internal pressures are very low. Regardless of the exact mechanism, our FI pressures indicate that the erupted crystal cargo experienced storage in the HMM reservoir, and thus this is the most probable reservoir supplying the eruptive melt to the surface.

Best,

Charlotte





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- SHIP DATE 9/16/23
- STANDARD TRANSIT 9/20/23 before 8:00 PM
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- WEIGHT 11 lbs / 4.99 kgs
- DIMENSIONS 13x10x11 in.
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Travel history



Ascending



Local Scan Time





- 2:27 PM
Shipment information sent to FedEx
- 4:54 PM
At FedEx origin facility
HILO, HI
- 4:54 PM
Picked up
Package received after FedEx cutoff
HILO, HI

Monday, 9/18/23

- 1:22 PM
Shipment arriving On-Time
HILO, HI
- 2:10 PM
Left FedEx origin facility
HILO, HI

Tuesday, 9/19/23

- 1:15 AM
Operational Delay
OAKLAND, CA
- 1:15 AM
Arrived at FedEx hub
OAKLAND, CA
- 6:04 AM
Departed FedEx hub
OAKLAND, CA
- 7:21 AM
At local FedEx facility
EMERYVILLE, CA
- 8:02 AM
On FedEx vehicle for delivery
EMERYVILLE, CA
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Shipment arriving early
EMERYVILLE, CA
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Track the status of your submission to Nature Geoscience

Research Square <info@researchsquare.com>

Wed 9/27/2023 5:45 PM

To:Charlotte Laila Justine Devitre <cld243@cornell.edu>

Dear Dr. Charlotte DeVitre,

Congratulations on your manuscript submission to Nature Geoscience. In partnership with Springer Nature, [Research Square](#) provides a private dashboard where you can track the status of your manuscript "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions" that is under consideration at Nature Geoscience. To access your dashboard and start tracking the progress of your manuscript through the peer review process, please log in to your account:

[Log in to your account](#)

Although you chose not to share your manuscript as a preprint when you submitted it to the journal, you can still do so through your dashboard. Preprints are given a DOI and posted permanently online on Research Square, allowing for more collaboration opportunities, earlier citations, and community comments. If you are interested in this option, log in via the link above and then select "Post My Preprint".

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Sincerely,

The Research Square Team

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Nature Geoscience: Receipt of manuscript NGS-2023-09-01950

Geoscience@nature.com <Geoscience@nature.com>

Thu 9/28/2023 3:08 AM

To:Charlotte Laila Justine Devitre <cld243@cornell.edu>

Our ref: NGS-2023-09-01950

28th Sep 2023

Dear Dr DeVitre,

Thank you for submitting your Brief Communication entitled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions."

Your submission has been assigned the following tracking number: NGS-2023-09-01950. We will be in touch again as soon as we have reached a decision. Please quote the tracking number in any communication.

Please note that this e-mail simply acknowledges receipt of your submission. It does not imply that the paper will be sent out for formal review. Should the editors decide for editorial reasons that the paper is unsuitable for publication in Nature Geoscience, you will be informed as soon as possible.

If an editor decides to send your manuscript for external review, they will first contact you and ask you to complete an Editorial Policy Checklist that verifies compliance with all required editorial policies. More information about our editorial policies, including a flattened version of this form can be found at: www.nature.com/authors/policies/availability.html

You may track the status of your submission by clicking on the link below. Once you have logged in, you should access your "Live Manuscript" folder and then click on the "Check Manuscript Status" link.

<https://mts-ngs.nature.com/cgi-bin/main.plex?el=A7Q3PSR4A7vpg1F2A9ftdbuLZlhum59JED93BNLUAZ>

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Thank you for choosing to submit your manuscript to Nature Geoscience.

Yours sincerely,

Manuscript Administration, Nature Geoscience

www.nature.com/ngeo

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RE: NGS-2023-09-01950 manuscript status

Wed 10/25/2023 1:19 AM

To:Charlotte Laila Justine Devitre <cld243@cornell.edu>

Dear Dr Devitre,

Please accept my apologies for not dealing with your manuscript sooner. The journal has experienced an exceptionally busy month. And unfortunately we don't automatically receive messages sent through the portal, so I was unaware you had tried to contact us.

I will look at your manuscript today, and again, we are sorry for the delay in making this decision.
All the best,

Editor, Nature Geoscience.



Charlotte Laila Justine Devitre <cdevitre@berkeley.edu>

PNAS MS#2023-19031 Submitted

1 message

journalstaff@pnascentral.org <journalstaff@pnascentral.org>

Tue, Oct 31, 2023 at 2:08 PM

Reply-To: pnas@nas.edu

To: cl.devitre@gmail.com

Cc: cdevitre@berkeley.edu

October 31, 2023

Dear Dr. DeVitre,

Thank you for your submission to PNAS. Your Brief Report was received and will be processed within 4-5 business days. You will receive an email once the staff have confirmed everything is in order or letting you know if any changes are necessary.

Sincerely,

PNAS Editorial Office

(p) 202.334.2679

(e) pnas@nas.edu

[PNAS](#) | [PNAS Nexus](#)



Charlotte Laila Justine Devitre <cdevitre@berkeley.edu>

PNAS MS# 2023-19031 Decision Notification1 message

CCarpenter@pnas.nas.edu <CCarpenter@pnas.nas.edu>

Wed, Nov 15, 2023 at 12:52 PM

Reply-To: CCarpenter@pnas.nas.edu

To: cl.devitre@gmail.com

Cc: cdevitre@berkeley.edu

November 15, 2023

Title: "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions"

Tracking #: 2023-19031

Authors: DeVitre et al.

Dear Dr. DeVitre,

Thank you for submitting your manuscript, titled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions", to PNAS; the results of our assessment have led us to the decision to decline to consider it for publication at this time.

PNAS is a multidisciplinary journal that aims to publish high-impact research of general interest to the scientific community. Because we receive more than 18,000 submissions every year, incoming manuscripts undergo an initial evaluation by a member of the Editorial Board, who is also a member of the National Academy of Sciences, to determine whether the potential novelty, impact, and relevance in the broad scientific community merit further detailed technical review. In your case, our assessment is that your manuscript does not meet one or more of the principal aims of our journal and on this basis we expect that the likelihood that detailed review will lead to publication is low. This decision is necessarily subjective and does not reflect an evaluation of the technical quality of your work or of its appropriateness for a more specialized audience.

Thank you for submitting your work to PNAS; we wish you success in finding a more suitable venue for publication soon.

Yours,

Editor-in-Chief, PNAS
(e) pnas@nas.edu

PNAS
PNAS Nexus

Editor Comments:

This is indeed an interesting real-time procedure but may be too specialized for PNAS.

Journal of Petrology - Manuscript ID JPET-Nov-23-0174

Journal of Petrology <onbehalf@manuscriptcentral.com>

Thu 11/16/2023 4:37 PM

To:cl.devitre@gmail.com <cl.devitre@gmail.com>;Charlotte Laila Justine Devitre <cld243@cornell.edu>

16-Nov-2023 Dear Dr. Devitre: Your manuscript entitled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions" has been successfully submitted online and is presently being given full consideration for publication in the Journal of Petrology. Your manuscript ID is JPET-Nov-23-0174. Please mention the above manuscript ID in all future correspondence or when calling the office for questions. If there are any changes in your street address or e-mail address, please log in to Manuscript Central at <https://mc.manuscriptcentral.com/jpet> and edit your user information as appropriate. If your manuscript has co-authors, they have been copied here. Any co-authors who are unaware of or disagree with this submission should raise this matter with the Executive Editor of Journal of Petrology, quoting the manuscript ID JPET-Nov-23-0174 in the subject line. As corresponding author, you may view the status of your manuscript at any time by checking your Author Centre after logging in to <https://mc.manuscriptcentral.com/jpet>. Thank you for submitting your manuscript to the Journal of Petrology. Regards, Lizzy Seal Editorial Manager Journal of Petrology Our Privacy Policy sets out how Oxford University Press handles your personal information, and your rights to object to your personal information being processed as part of our business activities. This policy also explains generally how we receive information about you: <https://global.oup.com/privacy?cc=gb>

Journal of Petrology - Decision on Manuscript ID JPET-Nov-23-0174

Journal of Petrology <onbehalf@manuscriptcentral.com>


Fri 1/19/2024 4:58 AM

To:cl.devitre@gmail.com <cl.devitre@gmail.com>;Charlotte Laila Justine Devitre <cld243@cornell.edu>

1 attachments (994 KB)

Attached standard file: JPET-Nov-23-0174_Proof_hi_reviewer.pdf;

19-Jan-2024

 Dear Dr. Devitre,

I write you in regards to manuscript # JPET-Nov-23-0174 entitled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions" which you submitted to the Journal of Petrology.

In view of the criticisms of the Editor/reviewer(s) found at the bottom of this letter, regrettably your manuscript cannot be accepted for publication in the Journal of Petrology.

Thank you for considering the Journal of Petrology for the publication of your research. I hope the outcome of this specific submission will not discourage you from the submission of future manuscripts.

Yours sincerely,
Editor in Chief, Journal of Petrology

Editor Comments to Author:

Comments to the Author:

Dear Dr Devitre

I have received two helpful reviews of your manuscript. Although understanding the importance of the barometry in volcano monitoring, the reviewers raise issues around the presence of H₂O in the fluid in determining pressure, and the need for careful understanding of temperature. Although these factors may be well understood at Kilauea, it makes wider application of a 'rapid response' method more

problematic given the need for additional analysis. Overall, the study might be better suited to a volcanological journal and one where you have additional space to discuss some of the complexities of analysis and interpretation. I am therefore making an editorial recommendation to reject.

With best regards

From: no-reply@aaas.org <no-reply@aaas.org>

Sent: Saturday, March 16, 2024 11:51:59 AM

To: Charlotte Laila Justine Devitre <cld243@cornell.edu>

Subject: Submission Confirmation for Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions (adp2700)

ScienceAdvances

Manuscript Title: Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions

Author: DeVitre

Manuscript Number: adp2700

Dear Dr. DeVitre:

Thank you for your submission to Science Advances. We have successfully received your Research Resource.

You are listed as a corresponding author on a manuscript submitted to Science Advances. Below, you will find the email address that was entered for you by the submitting author during the submission process. This email address is linked to this submission and is the username associated with your account.

Decision on adp2700

Science Advances Editorial <scienceadvanceseditorial@aaas.org>

Fri 4/12/2024 2:58 PM

To:Charlotte Laila Justine Devitre <cld243@cornell.edu>

Science Advances

Ref.: Ms. No. adp2700

Title: Depths in a day - A new era of rapid-response Raman-based barometry using fluid inclusions

Dear Dr. DeVitre,

Thank you for submitting your manuscript to Science Advances. Because your manuscript was not given a high priority rating during our initial assessment, we have decided not to send your paper for further review.

Science Advances aims to publish significant, innovative, original research that advances the frontiers of science and extends the high standards of excellence established by the Science family of journals. We receive many very interesting submissions, more than we can possibly send out for in-depth review or publish. Our decision regarding your manuscript is therefore not necessarily a reflection of the quality of your work, but rather of our constraints and goals in publishing high impact results across a broad and balanced array of disciplines.

Thank you for your submission to and interest in Science Advances.

Best Regards,

Editor-In-Chief, Science Family of Journals

On behalf of the

Science Advances Editorial Team

Associate Editor Comments: The paper presents a new take on fluid inclusion barometry through the application of Raman spectroscopy. Fluid inclusion barometry has been around for decades and the use of Fermi diad splitting to determine CO₂ density has become common in melt inclusion studies. Combining these techniques to increase precision of pressure determinations from fluid inclusions was inevitable. This paper uses results from a case study of the 2020 Kilauea eruption to demonstrate the utility of the approach. The technique is robust, although the “need for speed” when determining crystallization depths during an active eruption is questionable. This is a methods paper and as such is best suited to a specialized journal. I do not recommend publication in Science Advances.



Need help? Please contact us at scienceadvancededitorial@aaas.org
Information for Authors | Information for Reviewers

American Association for the Advancement of Science

1200 New York Avenue, NW
Washington, DC 20005, USA

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Journal of Petrology - Manuscript ID JPET-Apr-24-0074

Journal of Petrology <onbehalfof@manuscriptcentral.com>

Tue 4/23/2024 12:26 PM

To:cl.devitre@gmail.com <cl.devitre@gmail.com>;Charlotte Laila Justine Devitre <cld243@cornell.edu>

23-Apr-2024 Dear Dr. Devitre: Your manuscript entitled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid-inclusions." has been successfully submitted online and is presently being given full consideration for publication in the Journal of Petrology. Your manuscript ID is JPET-Apr-24-0074. Please mention the above manuscript ID in all future correspondence or when calling the office for questions. If there are any changes in your street address or e-mail address, please log in to Manuscript Central at <https://mc.manuscriptcentral.com/jpet> and edit your user information as appropriate. If your manuscript has co-authors, they have been copied here. Any co-authors who are unaware of or disagree with this submission should raise this matter with the Executive Editor of Journal of Petrology, quoting the manuscript ID JPET-Apr-24-0074 in the subject line. As corresponding author, you may view the status of your manuscript at any time by checking your Author Centre after logging in to <https://mc.manuscriptcentral.com/jpet>. Thank you for submitting your manuscript to the Journal of Petrology. Regards, Lizzy Seal Editorial Manager Journal of Petrology Our Privacy Policy sets out how Oxford University Press handles your personal information, and your rights to object to your personal information being processed as part of our business activities. This policy also explains generally how we receive information about you: <https://global.oup.com/privacy?cc=gb>

Journal of Petrology - Decision on Manuscript ID JPET-Apr-24-0074

Journal of Petrology <onbehalf@manuscriptcentral.com>

Fri 7/19/2024 12:01 AM

To:cl.devitre@gmail.com <cl.devitre@gmail.com>;Charlotte Laila Justine Devitre <cld243@cornell.edu>

4 attachments (2 MB)

Attached standard file: Review for Depths in a day.pdf; Attached standard file: Review_DeVitre.pdf; Attached standard file: S1_SI_Appendix_revised_commented.pdf; Attached standard file: RevisedManuscript_commented.pdf;

19-Jul-2024

Dear Dr. Devitre,

Manuscript ID JPET-Apr-24-0074 entitled "Depths in a day - A new era of rapid-response Raman-based barometry using fluid-inclusions." which you submitted to the Journal of Petrology, has been reviewed. The comments of the Editor/reviewer(s) are included at the bottom of this letter.

They have recommended publication, but only after major revisions to your manuscript. Therefore, I invite you to respond to their comments and revise your manuscript. Authors are given four months to make these revisions. If longer is required please contact the Editorial Office:
jpetrologyeditorialoffice@oup.com

To revise your manuscript, log into <https://mc.manuscriptcentral.com/jpet> and enter your AuthorCentre, where you will find your manuscript title listed under "Manuscripts with Decisions." Under "Actions," click on "Create a Revision." Your manuscript number has been appended to denote a revision. You will be unable to make your revisions on the originally submitted version of the manuscript. Instead, revise your manuscript using a word processing program and save it on your computer.

Please highlight the changes to your manuscript within the document by using the track changes mode in MS Word or by using bold or coloured text.

Please ensure that all text within figures is at least 2 mm high, considering potential size reduction of figures during production, and that you have checked and fulfilled all the requirements for documenting and presenting geochemical datasets, as outlined in the Author Guidelines at https://academic.oup.com/petrology/pages/General_Instructions. Failure to do this may result in delays due to necessitating additional rounds of revisions. If your script was first submitted after 29 February 2024, please note that from Revision 1 (R1) onwards, you are required to provide DOI links to a FAIR

data repository for all new geochemical or cosmochemical data and to a public repository for new software code.

Once the revised manuscript is prepared, you can upload it and submit it through your Author Centre. When submitting your revised manuscript, you will be able to respond to the comments made by the Editor and reviewer(s) in the space provided. You can use this space to document any changes you make to the original manuscript. In order to expedite the processing of the revised manuscript, please be as specific as possible in your response.

IMPORTANT: Your original files are available to you when you upload your revised manuscript. Please delete any redundant files before completing the submission.

Once again, thank you for submitting your manuscript to the Journal of Petrology. I look forward to receiving your revision and encourage you to select up to three appropriate themes for your paper to enhance its visibility upon publication, if accepted.

Yours sincerely,

Editor in Chief, Journal of Petrology

Editor Comments to Author:

Comments to the Author:

Dear Charlotte

I have now received three reviews on your manuscript. The reviewers have quite divergent opinions, but overall, significant changes are required before this manuscript could be considered for publication in Journal of Petrology. In particular, the reviewers' comments, taken together, indicate a need for significant expansion of the manuscript. I am therefore recommending major revisions, but request that you resubmit in the longer (standard) Journal of Petrology article format with a significantly expanded critical discussion. In particular, it is important to deepen the discussion of how this approach can be extended to other systems where there is much less supporting information than for Kilauea, or where different kinds of samples are available. This is important because it makes the wider application of a 'rapid response' method more problematic and harder to justify. Reviewers 1 and 3 give clear suggestions on how to address this. Please also note Reviewer 1 and 3's general comments about the way that you frame the novelty and impact of your results. They also indicate that the manuscript would benefit from citing a wider body of literature.

Regards