



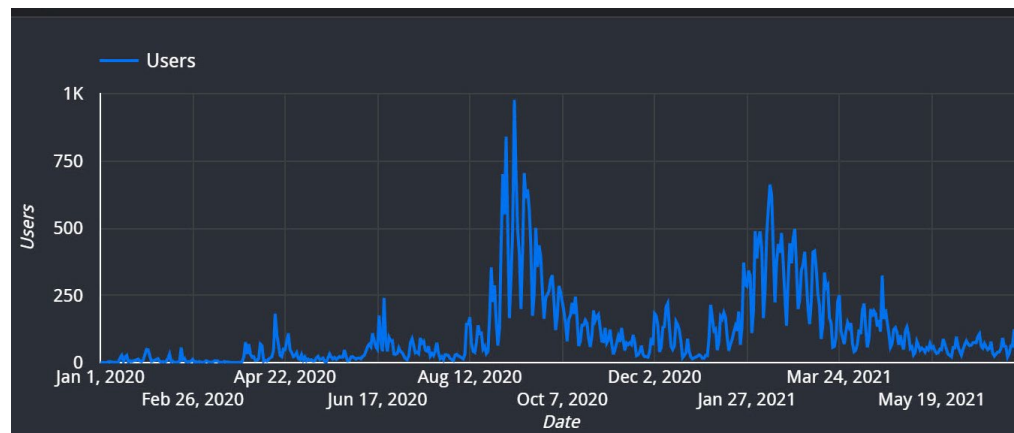
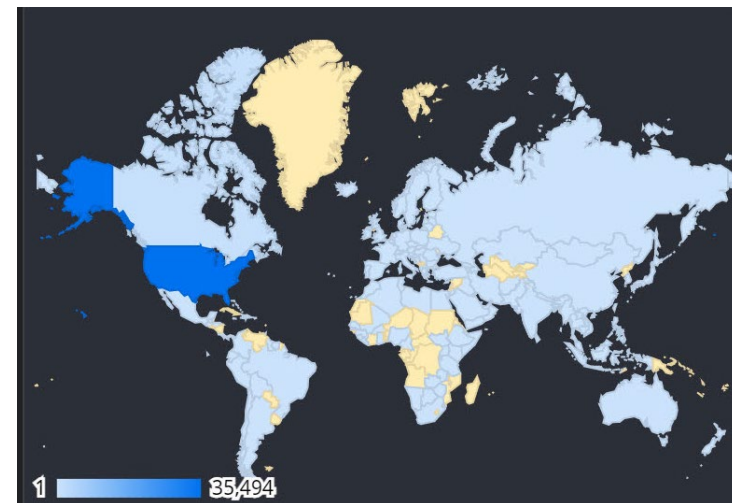
Insights Into Pandemic Use of *omg.georockme.com* and Value for Post-Pandemic Planning

<mailto:sbrande@uab.edu>



Teaching Introductory Physical Geology Lab Online

- Pre-pandemic resource
- Pandemic analytics
- Post-pandemic Insights



A close-up photograph of a hand holding a piece of dark, crystalline mineral. The mineral has a complex, layered structure with some lighter-colored inclusions. The hand is positioned in the foreground, with fingers visible, holding the mineral against a black background. The text is overlaid on the image.

EER Nashville July 2019

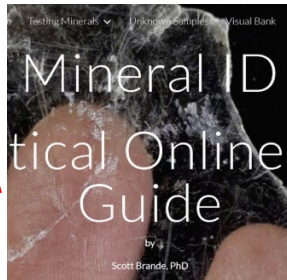
Intro Physical Geology Lab

Mineral Identification
Resources Online

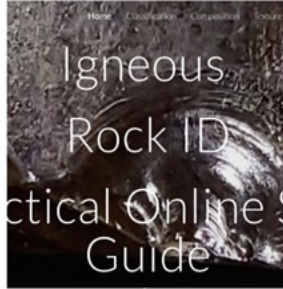
First Use Fall 2019

EER19 – Pre-pandemic Online Lab Resources

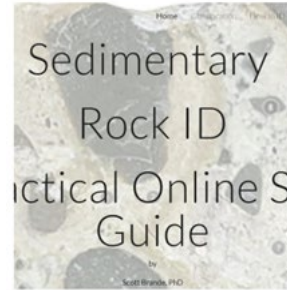
- 4 websites for Intro Physical labs: minerals & rocks



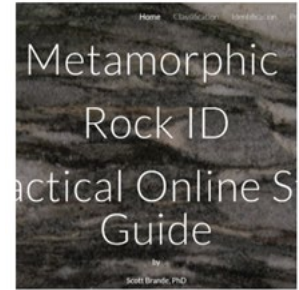
[minerals](#)



[igneous rx](#)

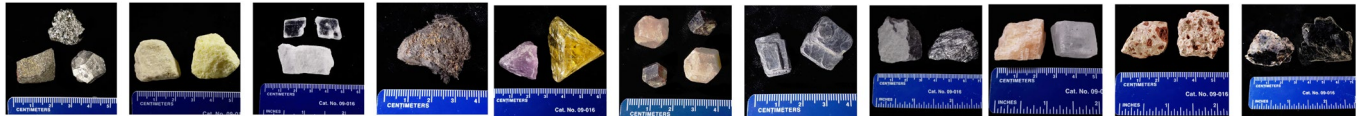


[sedimentary rx](#)



[metamorphic rx](#)

- Websites are not labs – toolkits with resources
- Roll-your-own labs with easy-to-copy links from websites





Dashboard Analytics –

Jan 1, 2020-
July 12, 2021

omg.
georockme.
com



Use of Website Analytics 2020 Year to Date

omg.georockme.com

by
Scott Brande

Jan 1, 2020 - Jul 12, 2021

Details:
[Goto World](#)

Details:
[Goto US States](#)

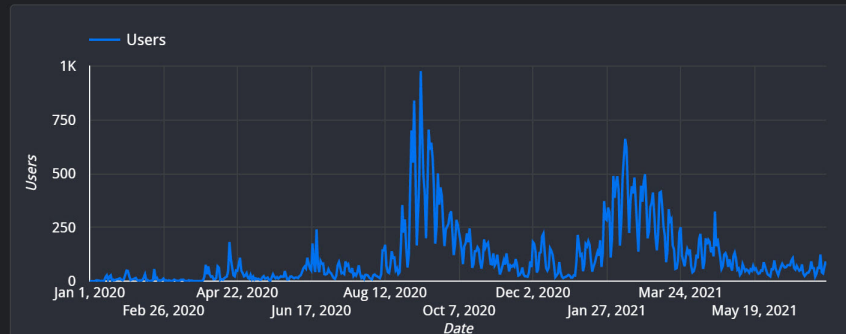
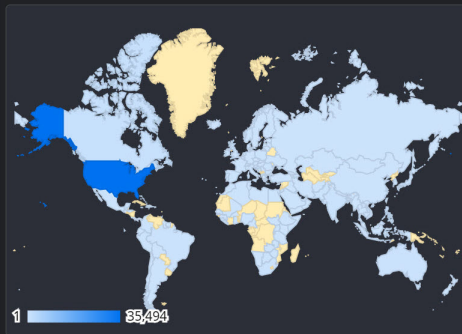
Details:
[Goto US Metro](#)

Hits on Site
692,336

Users
41,348

New Users
41,901

mouse over map or graph for details



click 'Header' or 'Users' to sort, mouse over table to scroll

	Operating System	Users ▾
1.	Windows	17,940
2.	Macintosh	14,038
3.	iOS	5,160
4.	Chrome OS	2,364
5.	Android	2,037
	Grand total	41,348
		1 - 8 / 8

	Browser	Users ▾
1.	Chrome	24,724
2.	Safari	11,333
3.	Edge	3,231
4.	Firefox	1,479
5.	Internet Explorer	271
6.	Samsung Internet	169
	Grand total	41,348
		1 - 19 / 19

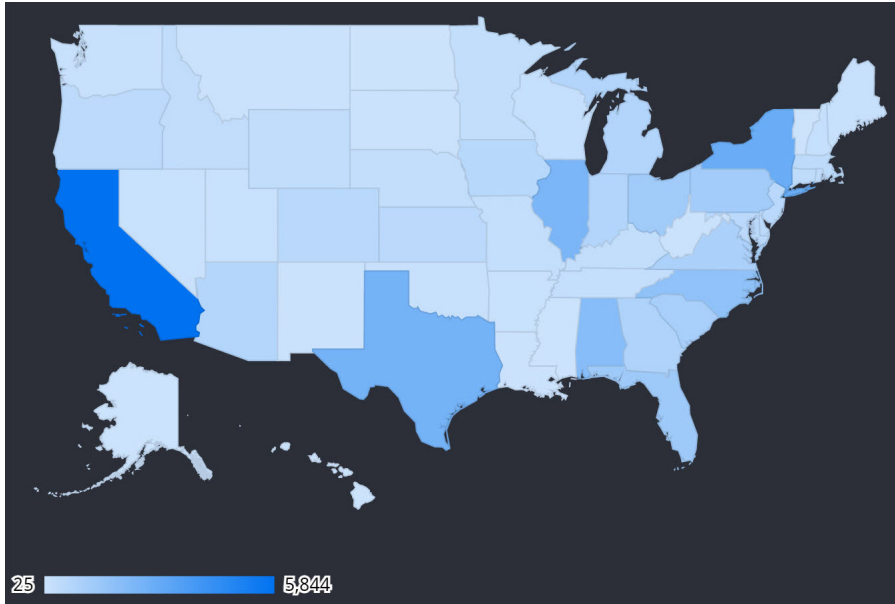
	Device Category	Users ▾
1.	desktop	34,153
2.	mobile	6,812
3.	tablet	405
	Grand total	41,348
		1 - 3 / 3

U.S. States



[Dashboard Analytics](https://omg.georockme.com) –
omg.georockme.com

Jan 1, 2020 - July 12, 2021



	State	Users ▾
1.	California	5,844
2.	New York	2,831
3.	Texas	2,504
4.	Illinois	2,338
5.	Alabama	1,999
6.	North Carolina	1,748
7.	Washington	1,636
8.	Florida	1,317
9.	Ohio	1,241
10.	Pennsylvania	1,187
11.	South Carolina	1,065
12.	Virginia	937
13.	Georgia	844
	Grand total	35,560

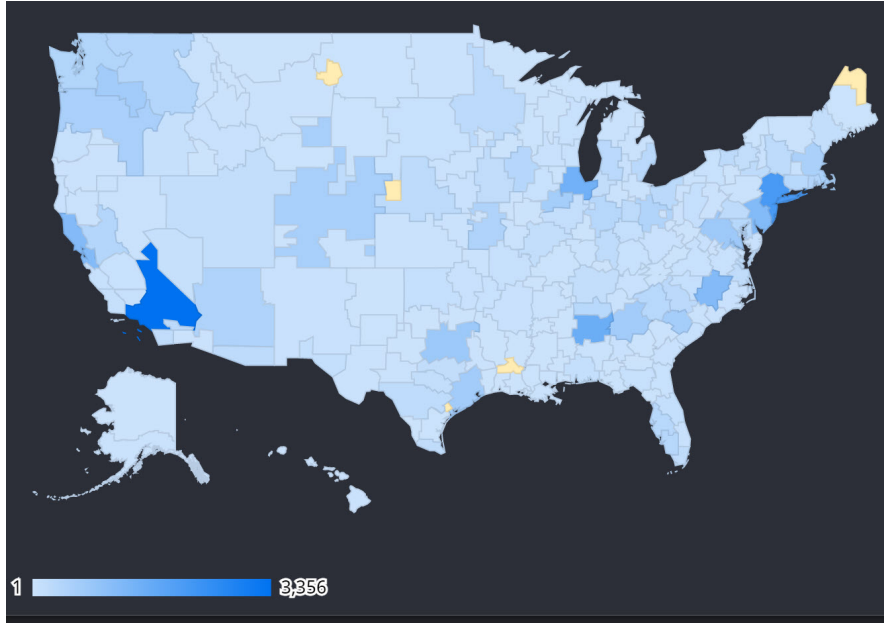
1 - 52 / 52 < >

U.S. Metros



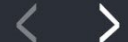
[Dashboard Analytics](https://omg.georockme.com) –
omg.georockme.com

Jan 1, 2020 - July 12, 2021



	Metro	Users ▾
1.	Los Angeles CA	3,356
2.	New York, NY	2,162
3.	Birmingham (Ann and Tusc) AL	1,577
4.	Chicago IL	1,476
5.	(not set)	1,337
6.	Philadelphia PA	1,202
7.	Raleigh-Durham (Fayetteville) NC	1,187
8.	San Francisco-Oakland-San Jose CA	1,186
9.	Dallas-Ft. Worth TX	787
10.	Washington DC (Hagerstown MD)	762
	Grand total	35,560

1 - 100 / 206



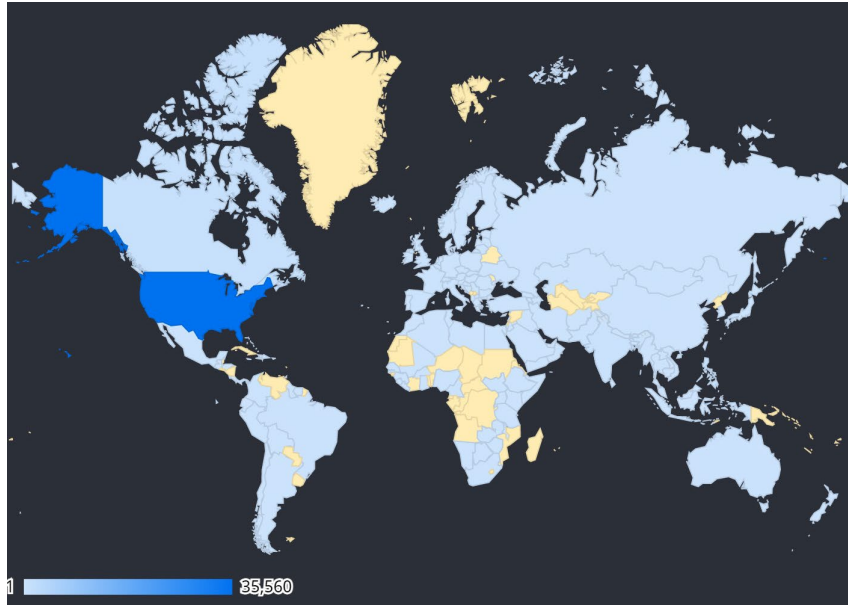


World



[Dashboard Analytics](#) –
omg.georockme.com

Jan 1, 2020 - July 12, 2021



	Country	Users ▾
1.	United States	35,560
2.	Canada	841
3.	Kuwait	772
4.	Philippines	460
5.	India	373
6.	United Kingdom	348
7.	Brazil	224
8.	Belgium	215
9.	Australia	211
10.	(not set)	199
11.	South Africa	164
12.	Colombia	155
13.	Spain	128
	Grand total	41,406

1 - 100 / 133 < >

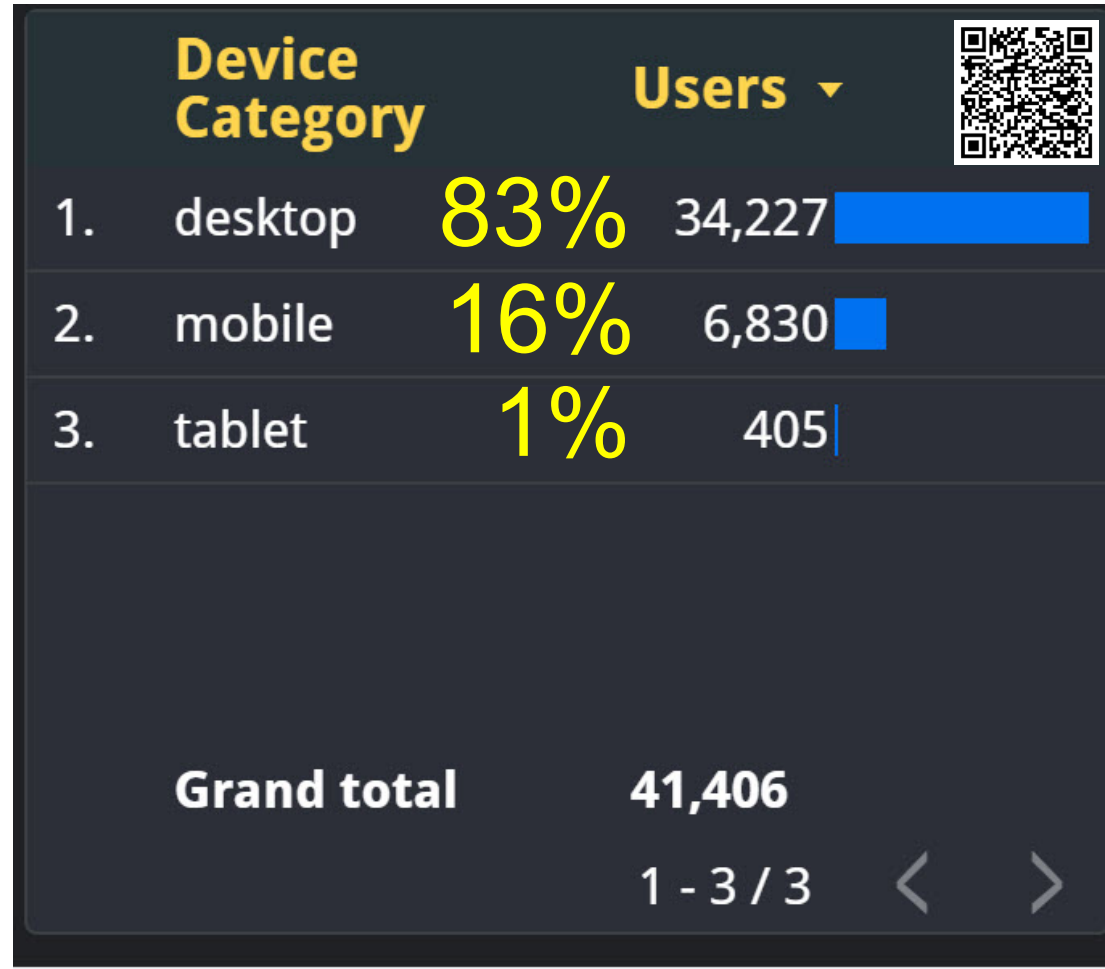


Devices

[Dashboard](#)
[Analytics](#) –

Jan 1, 2020-
July 12, 2021

[omg.](#)
[georockme.](#)
[com](#)



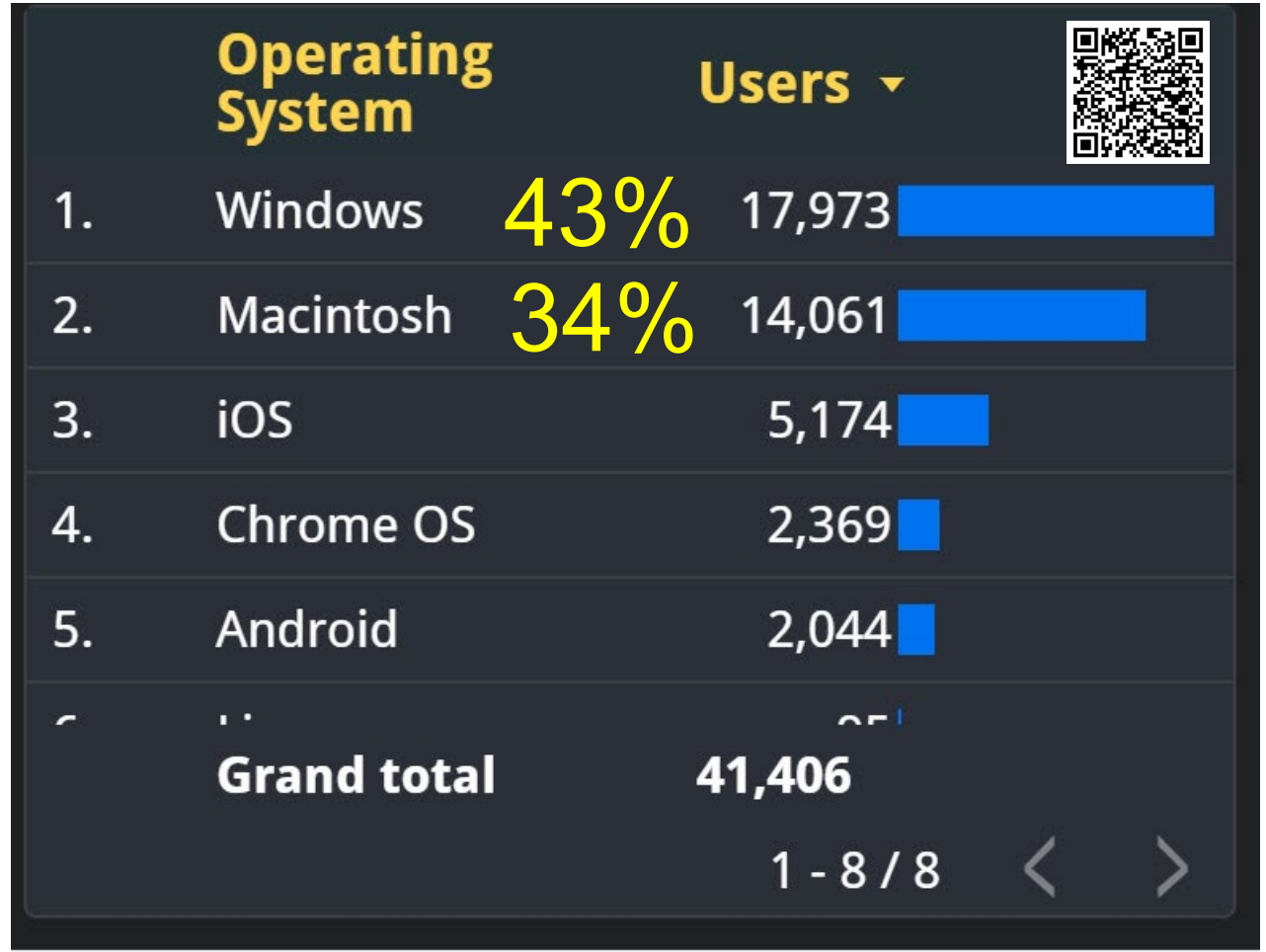


OSs

[Dashboard Analytics](#) –

Jan 1, 2020-
July 12, 2021

[omg.
georockme.
com](http://omg.georockme.com)













Browsers


[Dashboard](#)
[Analytics](#) –

Jan 1, 2020-
July 12, 2021

[omg.](#)
[georockme.](#)
[com](#)

	Browser		Users ▾
1.	Chrome	60%	24,797 
2.	Safari	27%	11,349 
3.	Edge	8%	3,240 
4.	Firefox	4%	1,482 
5.	Internet Explorer		271 
6.	Samsung Internet		169 
	Grand total		41,406

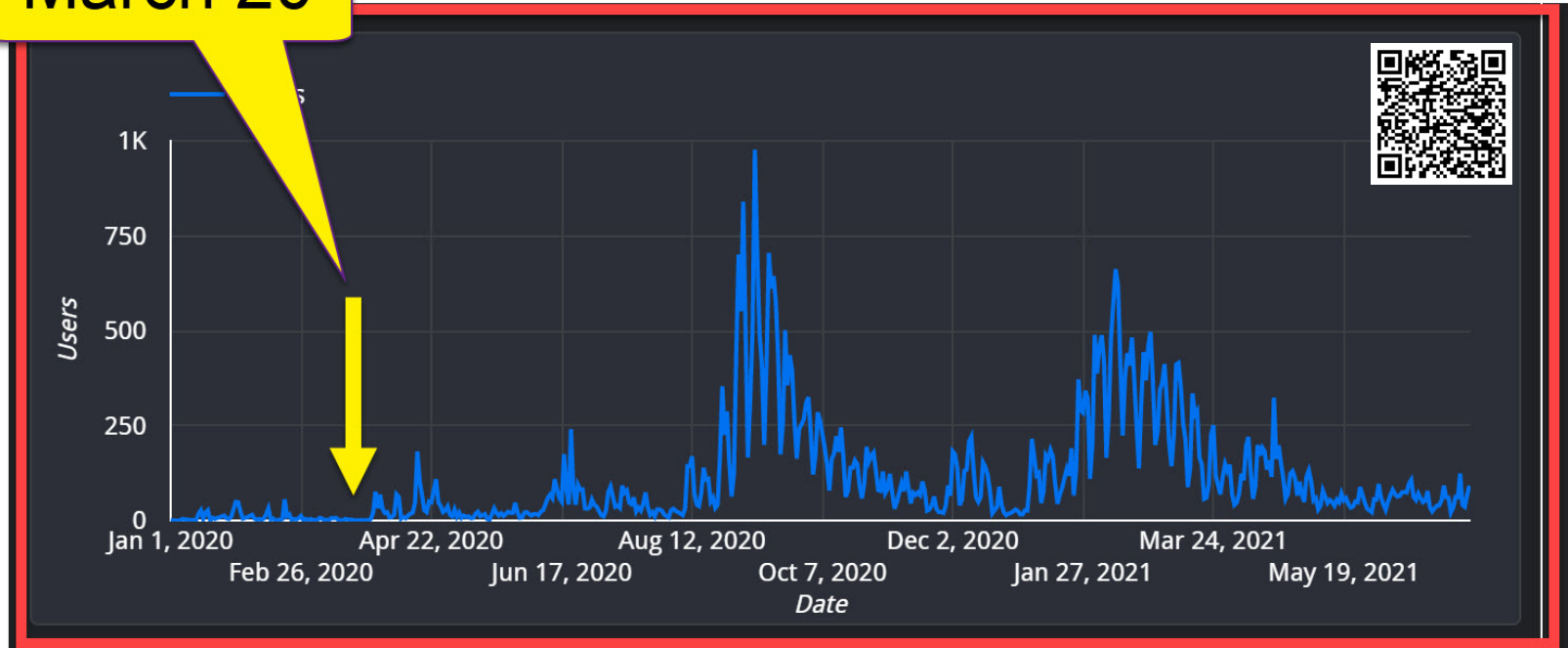
1 - 19 / 19  



Pandemic Users - Jan 1, 2020 - July 12, 2021

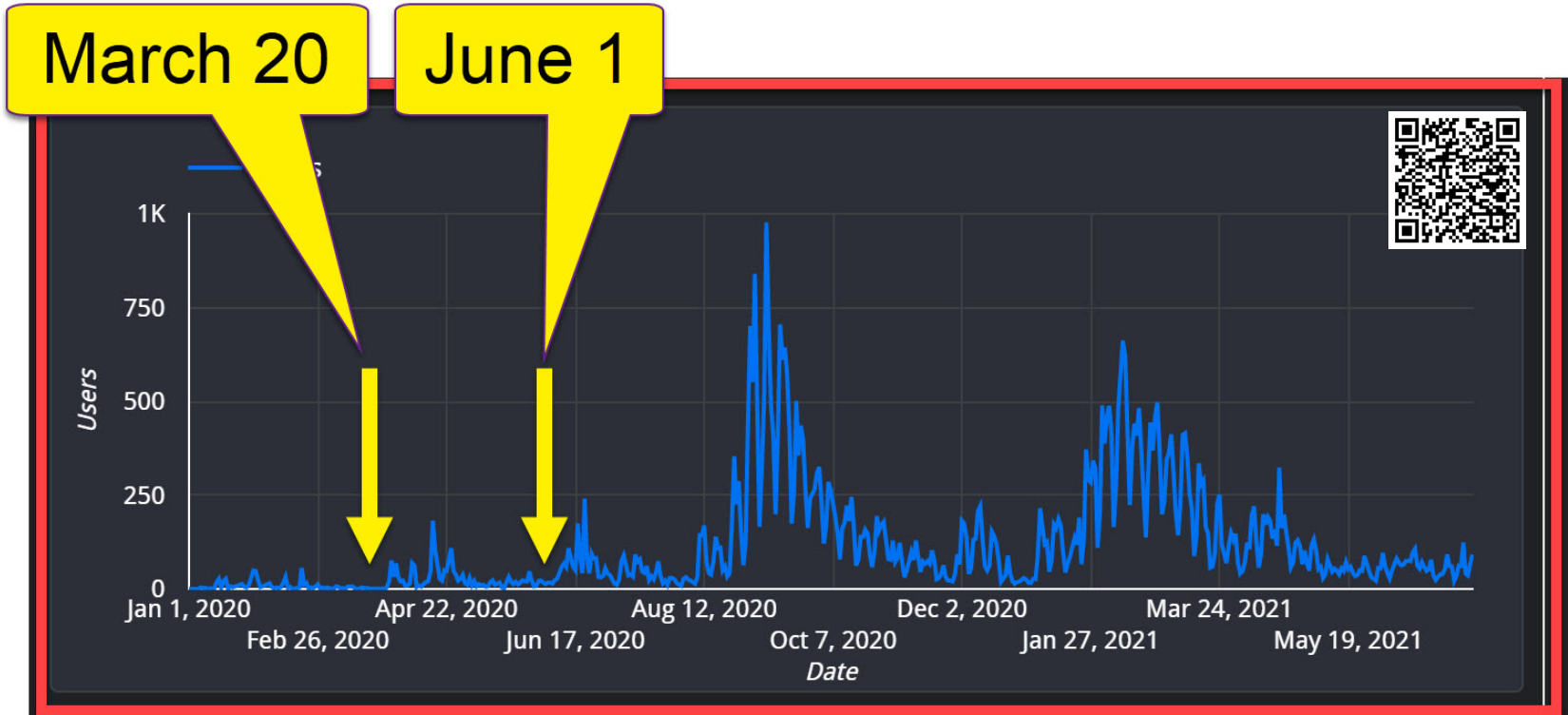
Dashboard Analytics – omg.georockme.com

March 20



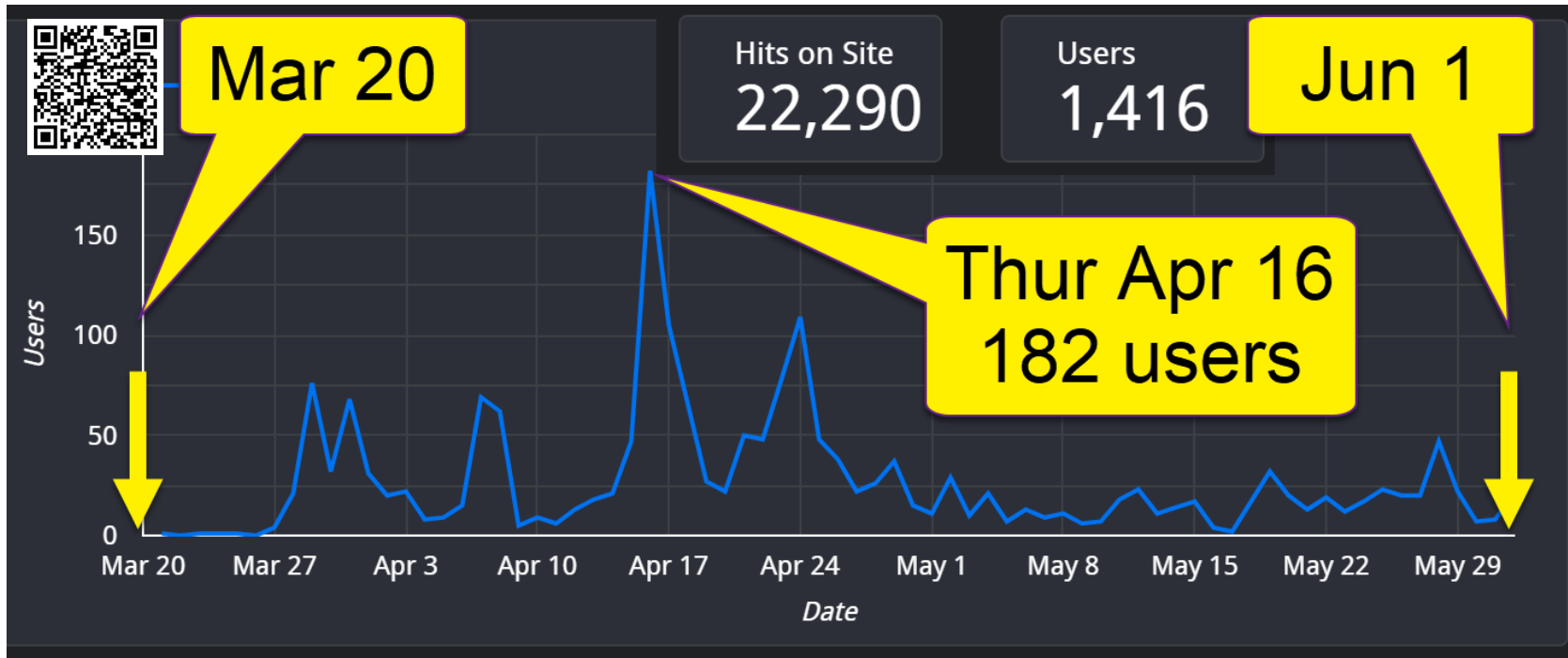
Pandemic Users – Spring Term 2020

Dashboard Analytics – omg.georockme.com



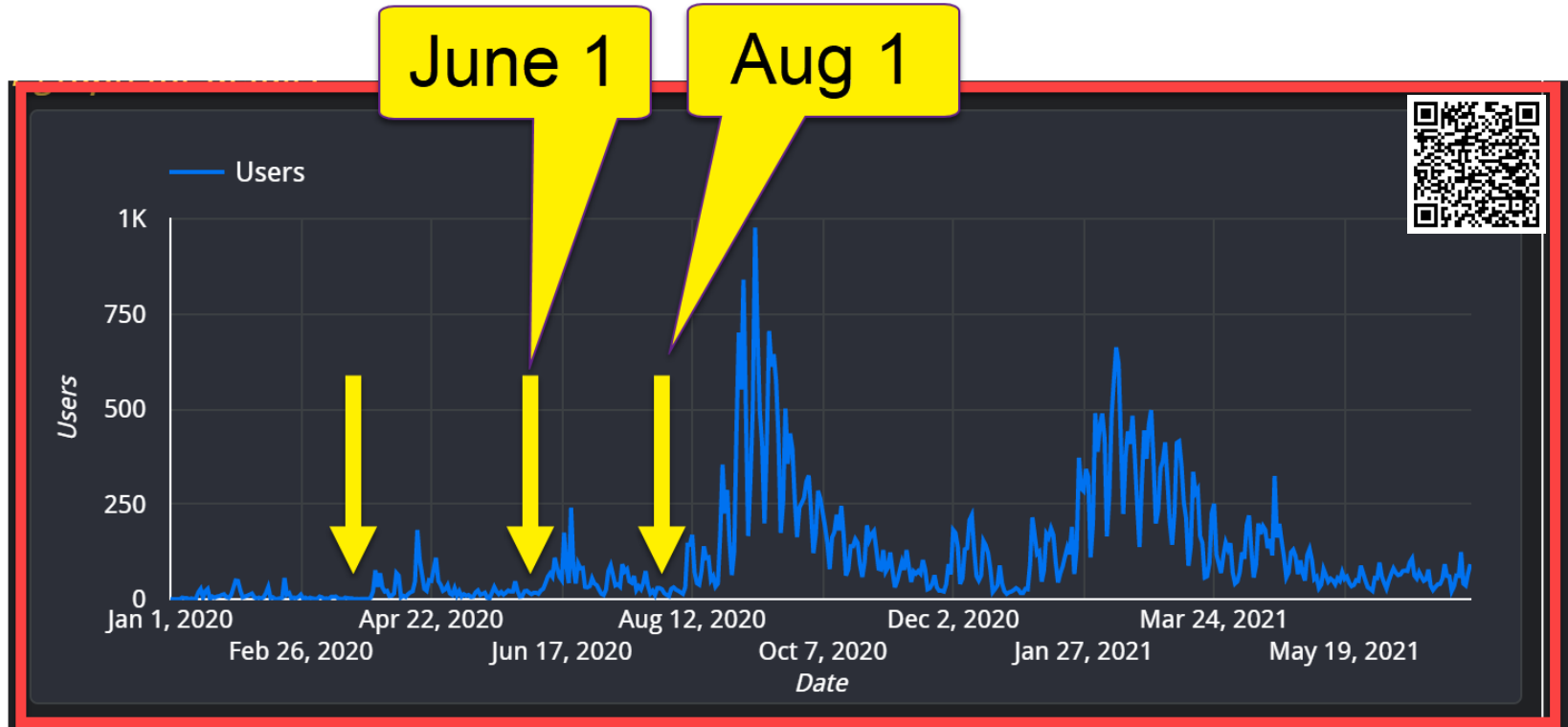
Pandemic Users – Spring Term 2020

Dashboard Analytics – omg.georockme.com



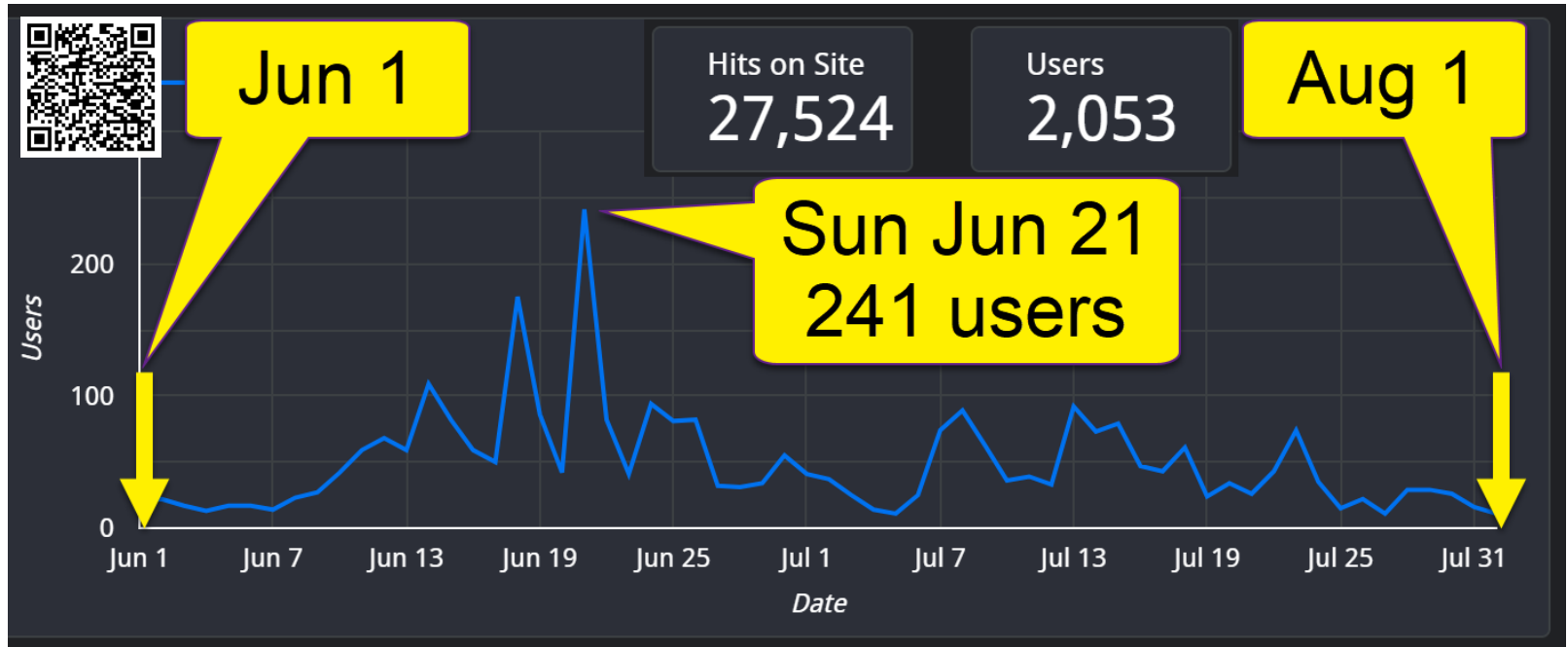
Pandemic Users – Summer Term 2020

Dashboard Analytics – omg.georockme.com



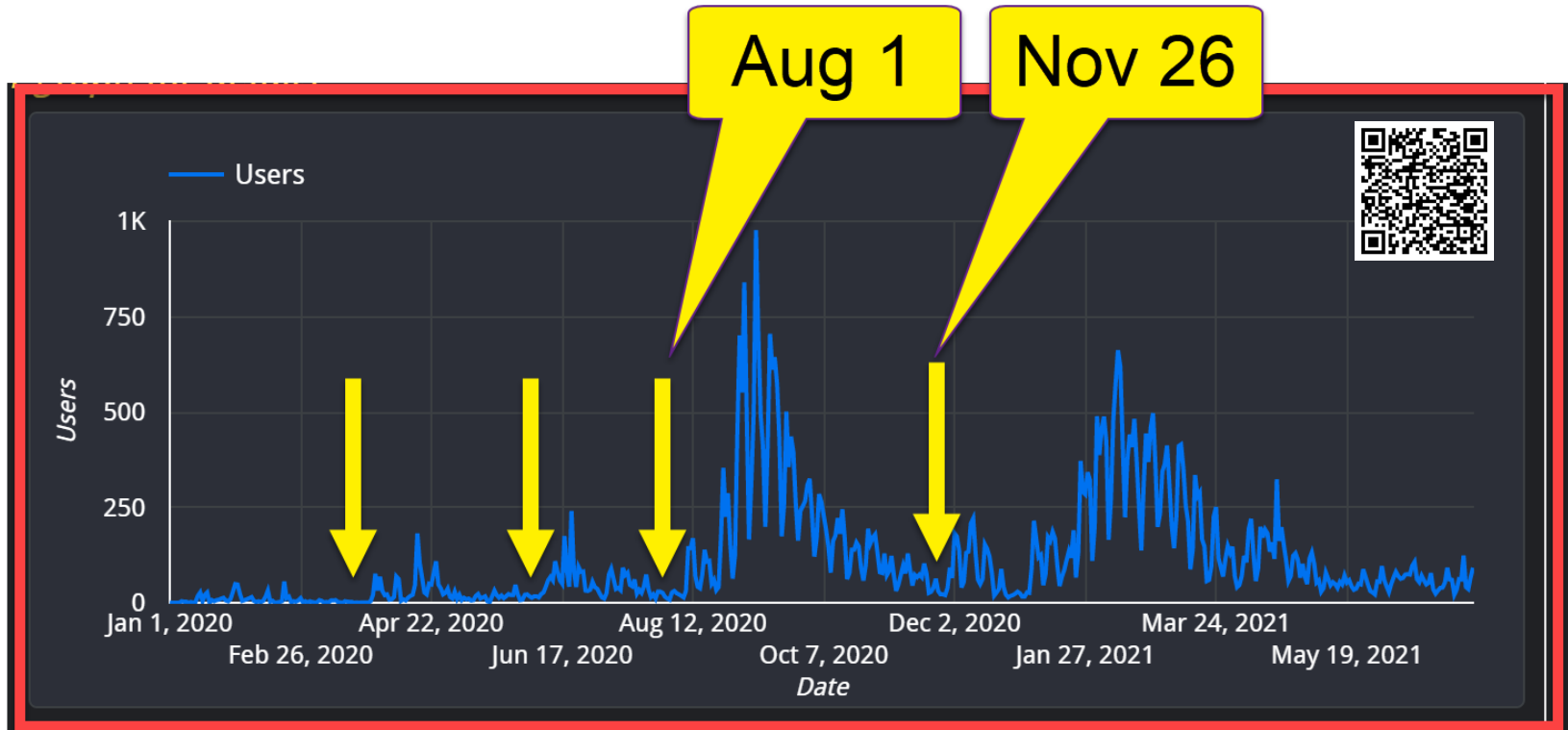
Pandemic Users – Summer Term 2020

Dashboard Analytics – omg.georockme.com



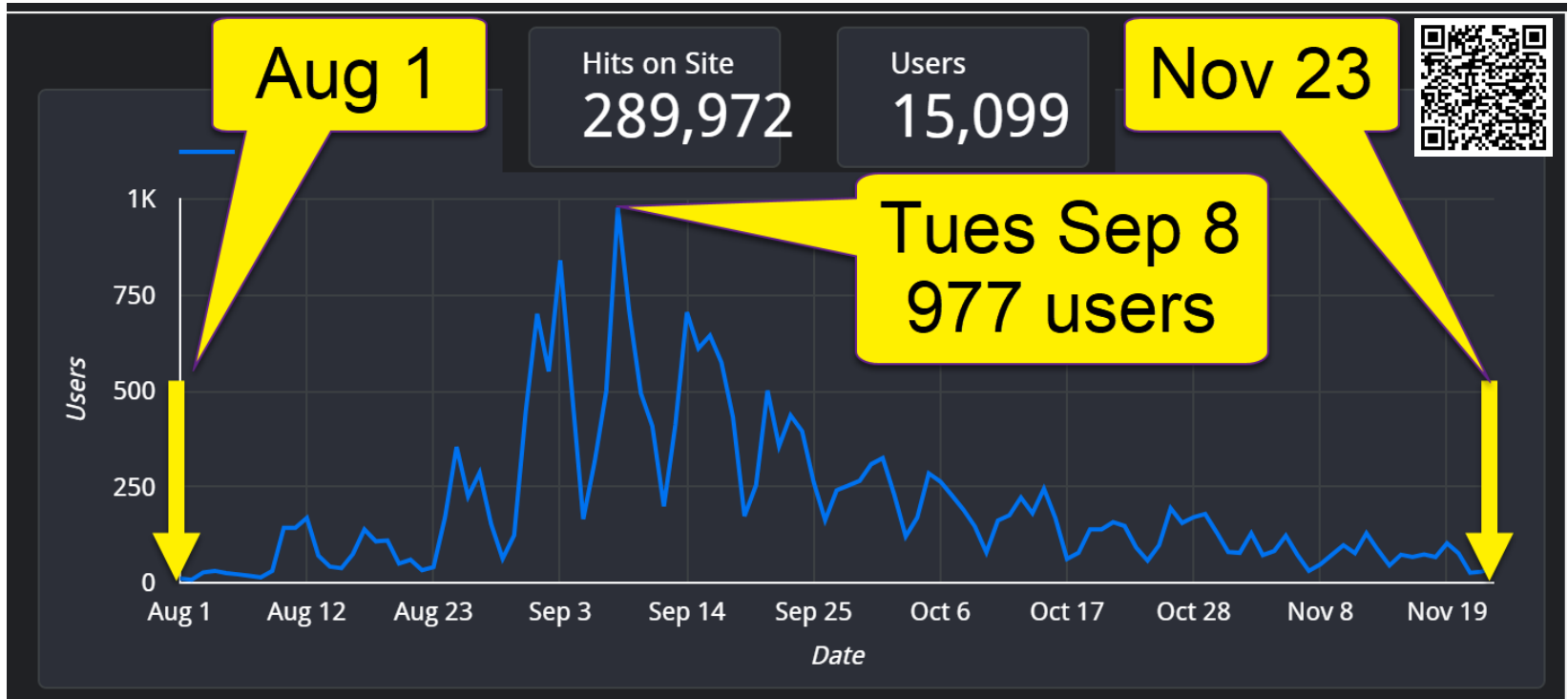
Pandemic Users - Fall Term 2020

Dashboard Analytics – omg.georockme.com



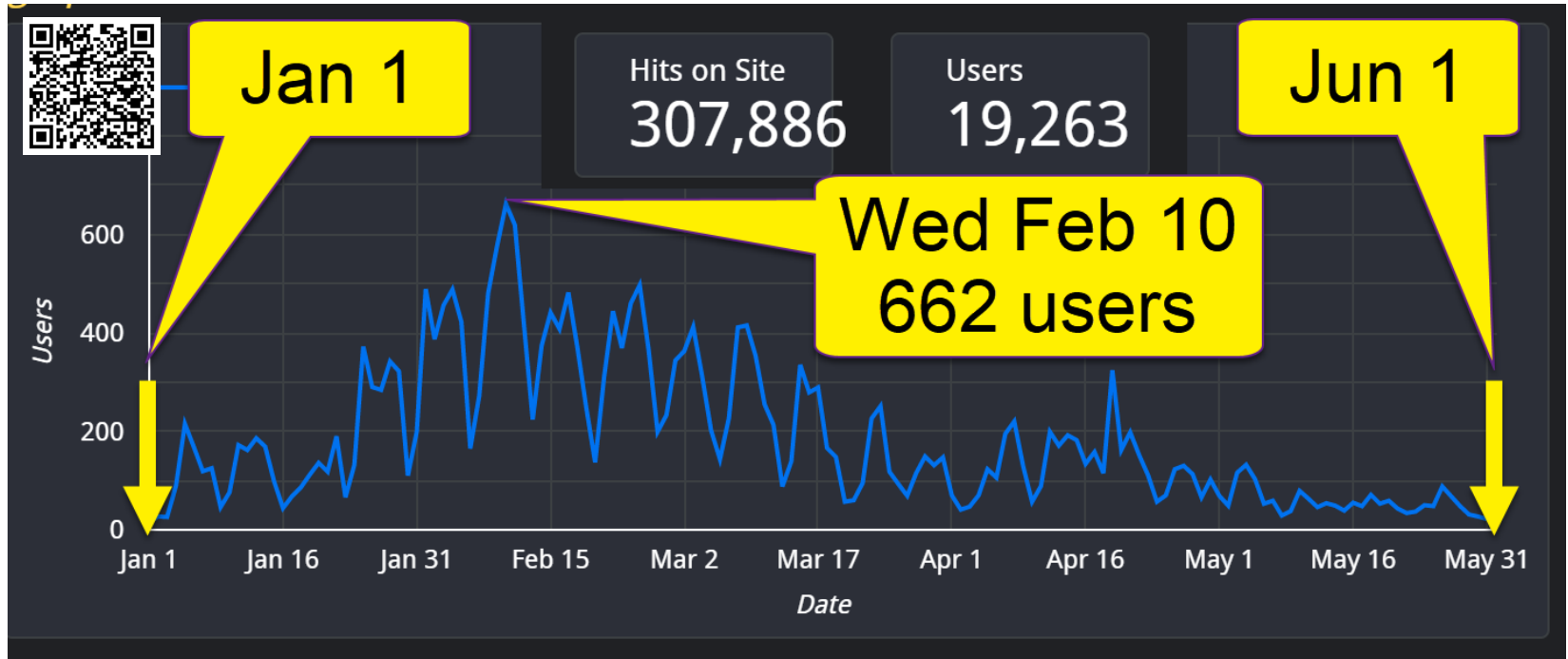
Pandemic Users – Fall Term 2020

Dashboard Analytics – omg.georockme.com



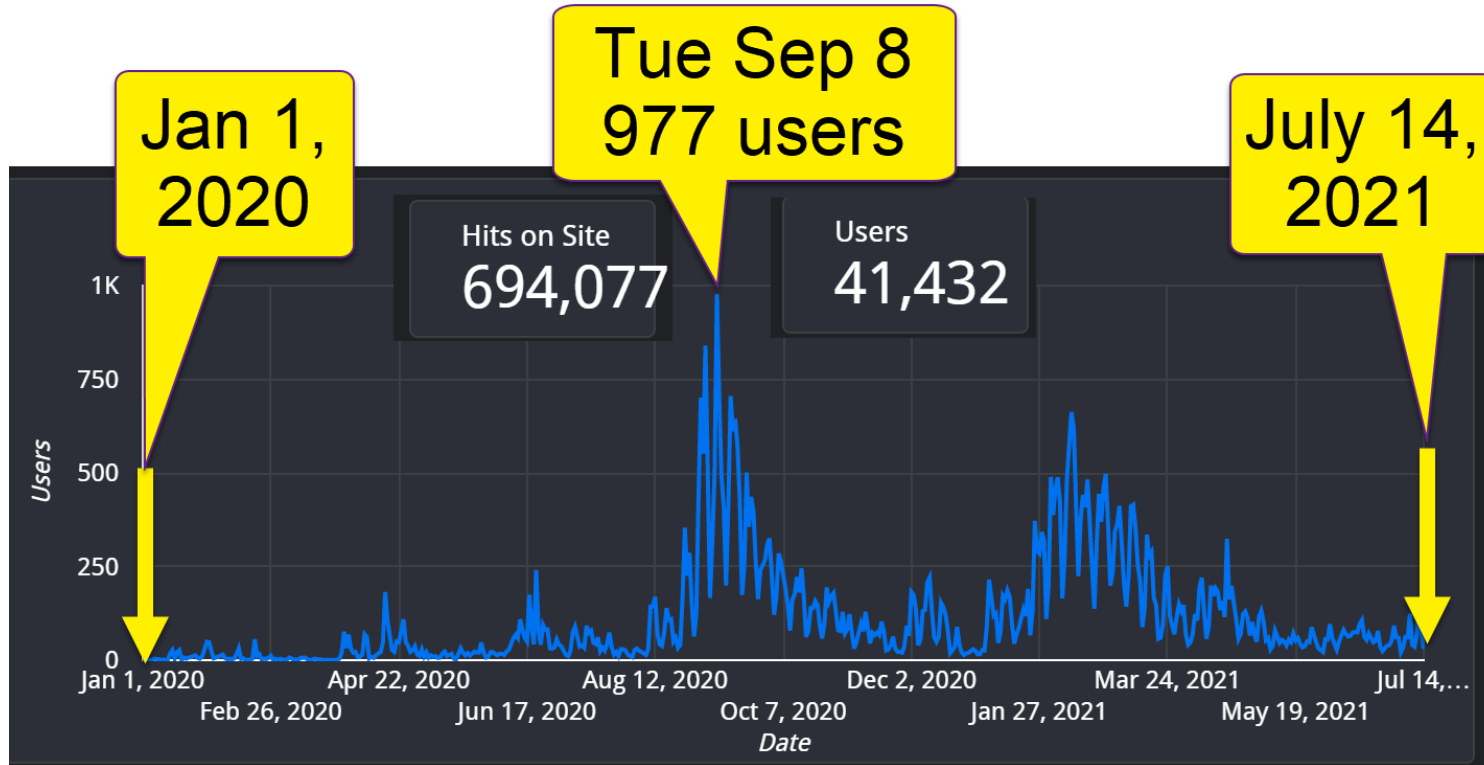
Pandemic Users – Spring Term 2021

Dashboard Analytics – omg.georockme.com



Pandemic Users - Jan 1, 2020 - July 14, 2021

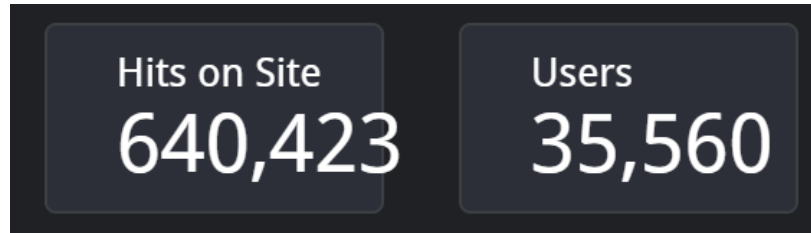
[Dashboard Analytics](#) – omg.georockme.com





U.S. Users - Jan 1. 2020 - July 13, 2021

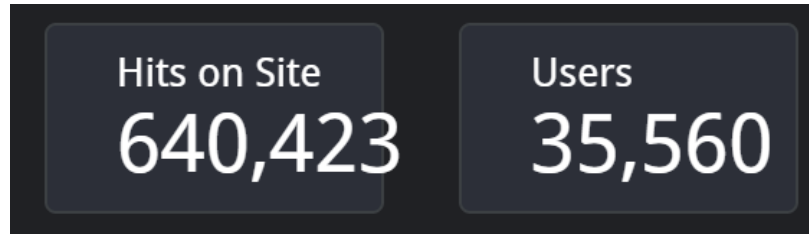
[Dashboard Analytics](#) – omg.georockme.com





U.S. Users - Jan 1. 2020 - July 13, 2021

[Dashboard Analytics](#) – omg.georockme.com



$$\frac{640,423 \text{ hits}}{35,560 \text{ users}} = 18$$

U.S. Users - Jan 1, 2020 - July 13, 2021

Dashboard Analytics – omg.georockme.com

Hits on Site

640,423

Users

35,560

$$\frac{640,423 \text{ hits}}{35,560 \text{ users}} = 18$$

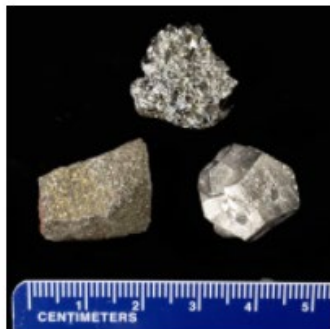


Image credit: Scott Brande



Image credit: Scott Brande



Image credit: Scott Brande

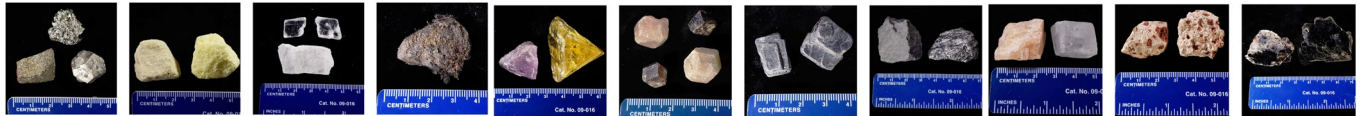
29 unknowns +
bunch of
web pages



Post-pandemic Uses for Pre-Pandemic Resources

Pandemic Needs

- off-campus
 - lack of lab access
- lack of relevant digital media,
accessible online





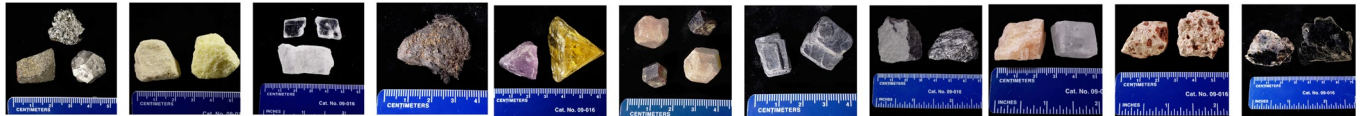
Post-pandemic Uses for Pre-Pandemic Resources

Pandemic Needs

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lack of lab access
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accessible online

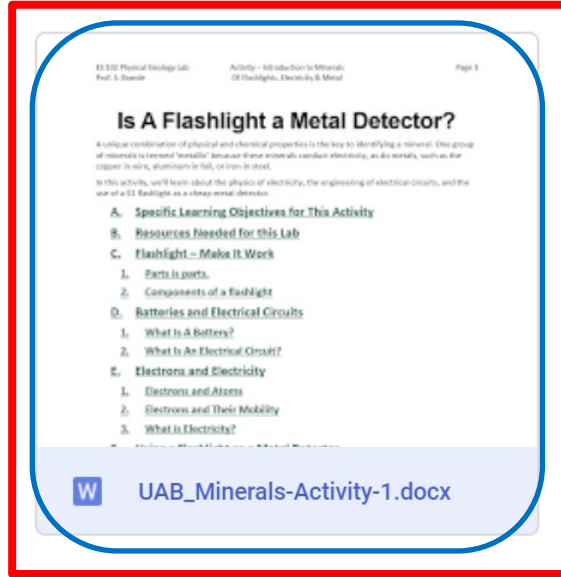
Post-pandemic Needs

- off-campus
missed lab
- pre-post-lab study,
quiz review
- distance learning formats



Free Resources Under Creative Commons

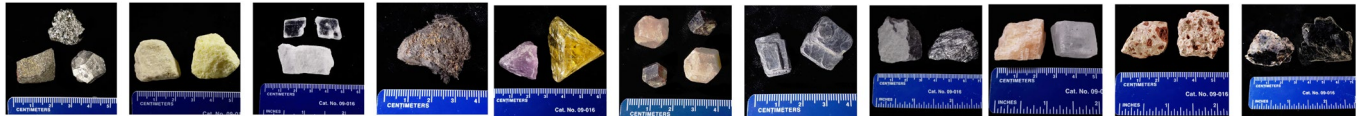
- [Copy links](#) to resources
- Remix into your own lab write-up
- Include CC license (in footnote, example below)



BY – credit author
NC – non-commercial
SA – share alike

You may modify the content of this form for your use according to this license. "This work by Scott Brande is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](#)."

Contact: <mailto:soskarb@gmail.com>

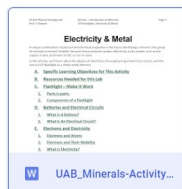
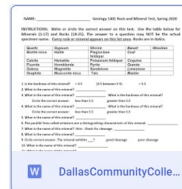
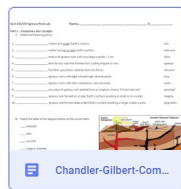
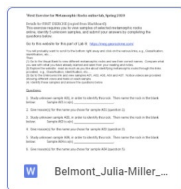


Colleagues Share Labs Using omg.georockme.com

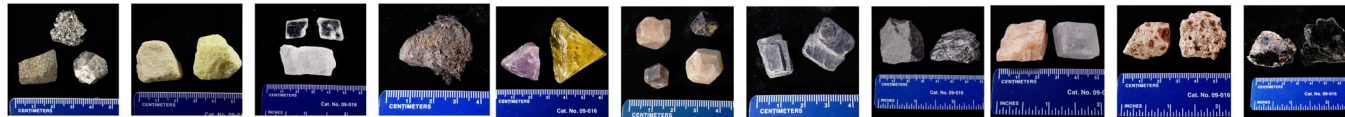
Websites

[Examples of Lab Write-Ups](#) - Downloadable

please respect credit



Carolina L. Michel, Chandler-Gilbert Community College, Chandler, AZ
Julia M. G. Miller, Belmont University, Nashville, TN
Patricia Gallagher, Drexel University, Philadelphia, PA
Alexander Zekulin, Brookhaven College & Tarrant County College, Ft. Worth, TX
----- Correspondents -----
Chris Berg, Orange Coast College, Costa Mesa, CA
Vince Cronin, Baylor University, Waco, TX
Hillary Goodner, Yakima Valley College, Yakima, WA
Wendi Williams, South Texas College, McAllen, TX
& etc.

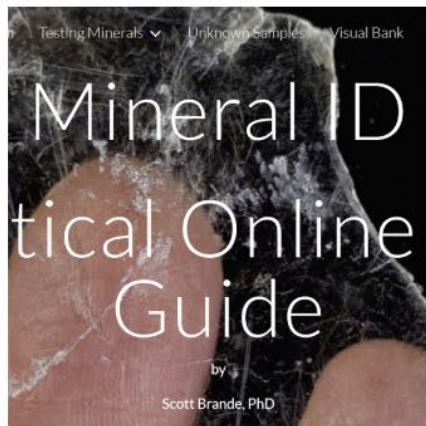




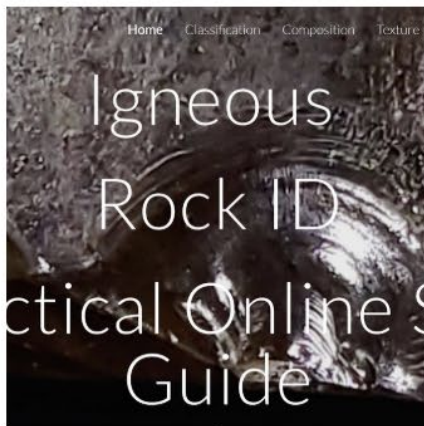
GeOnline Resources

[geonline.
georockme.
com](http://geonline.georockme.com)

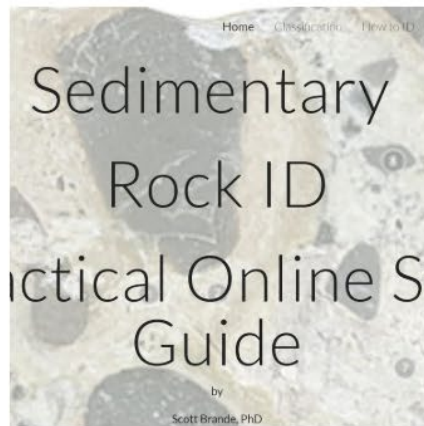
Current Toolboxes



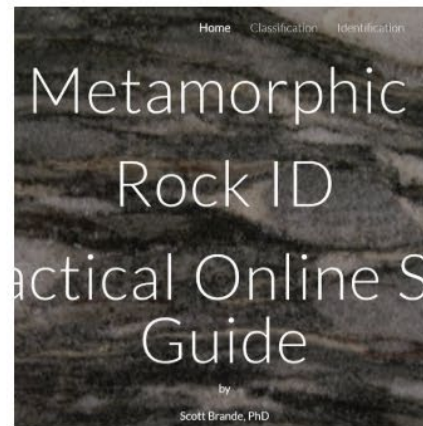
[minerals](#)



[igneous rock](#)



[sedimentary rock](#)



[metamorphic rock](#)



New Project

Learning from 3D Models



SAVE VIEW



public downloadable 3D models
sketchfab.com/rockdoc

Rockviewer 2 - Contact Me to Participate

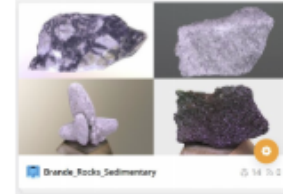
NSF Award-2020

Award Abstract #1937389

Collaborative Research: 3D Virtual-Rock Models for Testing Category Learning Theory to Improve Student Learning in Physical Geology

NSF Org:	DUE Division Of Undergraduate Education
Initial Amendment Date:	March 18, 2020
Latest Amendment Date:	March 18, 2020
Award Number:	1937389
Award Instrument:	Standard Grant
Program Manager:	Karen Keene DUE Division Of Undergraduate Education EHR Direct For Education and Human Resources
Start Date:	April 1, 2020
End Date:	March 31, 2022 (Estimated)
Awarded Amount to Date:	\$214,678.00
Investigator(s):	Scott Brande sbrande@uab.edu (Principal Investigator)
Sponsor:	University of Alabama at Birmingham AB 1170 Birmingham, AL 35294-0001 (205)934-5266
NSF Program(s):	IUSE

Face-to-Face vs Online Lab Learning



- physical rocks
- limited set
- campus access only

- 3D virtual rocks
- unlimited set
- access anytime, anywhere

<mailto:sbrande@uab.edu>

- Experiments to Test Training Effectiveness in Rock Identification
- Build an archive of 3D models for testing
- Some \$ for honoraria – contact me about your samples



Pandemic Resources for the Post-Pandemic EDU

omg.georockme.com

- New contact? Used OMG website?
- Please write sbrande@uab.edu
- small funding for rock samples - 3D models
- write sbrande@uab.edu

GSA Portland 2021 – In Person

Please consider submitting an abstract to Geological Society of America oral Topical Session **T167. The Lasting Effects of the 2020–2021 COVID-19 Crisis on Geoscience Education: Insights, Problems, and Unanticipated Benefits.**

**Submit your abstract.
Share your research.**

Abstracts deadline: 20 July

Submit Abstract





Insights Into Pandemic Use of *omg.georockme.com* and Value for Post-Pandemic Planning

<mailto:sbrande@uab.edu>

