THE PERILS OF A E

A BOOM IN DIAGNOSTICS SOCIAL MOVEMENTS AND BACKLASH

MARCH 2022

SCIENTIFICAMERICAN.COM

SPECIAL ISSUE

HOW COVID CHANGED THE WORLD

Lessons from two years of emergency science, upheaval and loss

INSIDE

- A virus showed the dangers of rugged individualism
- Global health institutions lost trust
- Messenger RNA vaccines opened the door to new therapies
- Conspiracy theories made everything harder
- And more

OTHER WORLDS IN FEW WORDS

The following haiku, written in the traditional three-line, 17-syllable format by teams of planetary scientists, summarize research results reported at the 52nd Lunar and Planetary Science Conference, which was held virtually March 15–19, 2021.

"Detailed Chloride Mapping in Terra Sirenum, Mars"

Oceans long since past Dry, cracked ground, no trace remains But the taste of salt.

-E. M. Harrington, B. B. Bultel, A. M. Krzesińska and S. Werner

"Identifying Landing and Sample Tube Depot Sites and Characterizing Traverse Terrains for Mars Sample Return"

Three summer interns Helping a little rover Return rocks from Mars. —M. C. Deahn, M. M. Morris, C. L. Brooks, N. R. Williams, M. P. Golombek, F. J. Calef III, S. Do and A. K. Nicholas

"Are Maryland and Other Craters on CCKBO Arrokoth Compaction Craters, and Does it Matter?"

. Compaction craters

Explains Arrokoth's surface

Saves its neck from harm.

--W. B. McKinnon, X. Mao, K. N. Singer, J. T. Keane, P. M. Schenk, O. L. White, R. A. Beyer, S. B. Porter, D. T. Britt, J. R. Spencer, W. M. Grundy, J. M. Moore, S. A. Stern, H. A. Weaver, C. B. Olkin and New Horizons Science Team

"Investigating Icequakes on Enceladus Using an Antarctic Analog: Application of Seismic and Machine-Learning Techniques to Characterize Tidally Induced Seismicity along Icy Rifts"

Antarctic ice quakes Can this then tell us how does Enceladus shake?

-K. G. Olsen, N. C. Schmerr, M.-H. Huang, T. A. Hurford and K. M. Brunt



"Seasonal Variability of Titan's Global Wind Field" The gales of Titan Oh, how they blow! What fury! And how they do change!

-S. L. Light, M. A. Gurwell, C. A. Nixon and A. E. Thelen

"Habitability of Cloudy Worlds: Intersecting Constraints and Unknowns"

Why clouds are not green: Where there's water, there is life* *Exceptions apply.

-D. M. Gentry, L. Iraci, E. Barth, K. McGouldrick and K.-L. Jessup