

LEAH J. LEVAY

International Ocean Discovery Program, Texas A&M University | 1000 Discovery Drive, College Station, TX 77845
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Education

- May 2012 Ph.D. Geosciences – The Pennsylvania State University
Advisors: Dr. Timothy J. Bralower and Dr. Lee R. Kump
Response of calcareous nannoplankton to climatic perturbations and the long-term impact on communities
- May 2006 B.S. Geology, distinction and honors – University of Nebraska, Lincoln

Appointments

- Sept. 2021 – Present *Supervisor of Science Support*
International Ocean Discovery Program (IODP), Texas A&M
- July 2012 – Aug. 2021 *Expedition Project Manager/Staff Scientist*
International Ocean Discovery Program (IODP), Texas A&M
- March 2019 – Present *Associate Research Scientist*
Texas A&M University, College Station, Texas
- July 2012 – Mar. 2019 *Assistant Research Scientist*
Texas A&M University, College Station, Texas
- March 2013 - Present *Lecturer and graduate faculty*
Department of Geology and Geophysics, Texas A&M University
- Feb - May 2012 *Biostratigraphy Intern*
ConocoPhillips, Houston, Texas
- 2007-2012 *Research Assistant*
Penn State University, State College, Pennsylvania
- 2006-2007, 2010 *Teaching Assistant*
Penn State University, State College, Pennsylvania
- June 2006 *CHRONOS Internship*
Iowa State University, Ames, Iowa

Teaching Experience

- Co-Instructor:* Intro to Environmental Geoscience (GEOS 105), TAMU, Fall 2021
Co-Instructor: 'Science Below the Sea', TAMU First Year Experience (GEOS 101), TAMU, 2019-20

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- Provide information on Texas A&M University for incoming students as part of a University-wide initiative, introduce students in the Geosciences to the International Ocean Discovery Program and related science, construct an open, supportive classroom community.

Instructor: Undergraduate Research Credits (GEOL 491, OCNG 491, GEOS 491), TAMU, 2013-2022.

- Mentor, advise, and oversee student research projects.

Co-Instructor: 'Science Below the Sea', Geosciences First Year Seminar (GEOS 101), TAMU, Fall 2017 and 2018

- Lectures and an out of class room, hands on activity with drilling cores

Instructor: Introduction to Oceanography (OCNG 251), TAMU, Fall 2016

- Lectures, in class "clicker" quizzes, develop exams, group drill core activity with interpretation paper

Co-Instructor: 'Ocean Acidification', Geosciences First Year Seminar (GEOS 101), TAMU, Fall 2015

- Lectures, trip to IODP core repository

Co-Instructor: 'What the Frack?', Geosciences First Year Seminar (GEOS 101), TAMU, Fall 2014

- Lectures, trip to museum exhibit on the history of oil and gas exploration

Teaching Assistant: The Earth System, Penn State University, Spring 2010

- Grade papers and exams, lecture when professor was absent, office hours

Teaching Assistant: Introduction to Oceanography, Penn State University, 2006-2007

- Led oceanography laboratory exercises for 3 sections of 30+ students each, graded lab exercises

Teaching Assistant: Geology of the National Parks, University of Nebraska-Lincoln, Spring 2006

- Graded quizzes, exams, and reports

Student Mentorship

Supervise TAMU undergraduate research projects (total of 19 students over 9 years)

- Work with students to identify interests, lab and microscope training, discuss journal articles, help students create posters, edit technical scientific writing

Advisor for TAMU Undergraduate Research Scholars Program (3 students total)

- Work with students to complete an undergraduate research project and thesis for the TAMU program

Supervise TAMU undergraduate student workers (total of 6)

Graduate student committees at TAMU

- Have served on a total of 5 committees

TAMU Mentor Up program (2018-19) – serve as a mentor for a local high school junior

Service and Outreach

NSF EarthCube Leadership Council and Transitional Leadership Team: June 2021 – November 2022

NSF EarthCube Council of Funded Projects: September 2019 – May 2021

Serve on the TAMU College of Geoscience's Diversity and Climate Committee: 2018-2021

Outreach at TAMU/IODP: GeoX, AggieLand Saturday, Intro to IODP for visiting groups, Tours of the IODP facilities

Other Outreach: Shake, Rattle, and Rocks (PSU), Dinosaurs and Disasters (Nebraska State Museum)

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Grants, Funding, and Awards

2019-2022	EarthCube Science-Enabling Data Capabilities: Collaborative Proposal: Extending Ocean Drilling Pursuits [eODP]: Microfossils and Stratigraphy. NSF EarthCube. Total budget \$944,743; Collaborative Award to TAMU \$266,696. Award Number: NSF-ICER 1928362
2018	NSF EarthRates Workshop Support: Bringing Micropaleontology to the Paleobiology Database. \$15,000. https://earthrates.org/micropaleontology-workshop
2017-19	U.S. Science Support/Lamont Doherty Earth Observatory. Post-Expedition Activity Award. \$12,367
2014-15	U.S. Science Support/Consortium for Ocean Leadership. Post-Expedition Activity Award. \$10,840
2010-12	U.S. Science Support/Consortium for Ocean Leadership. Post-Expedition Activity Award. \$14,000
2010	Shell Geosciences Energy Research Facilities Award. \$2,000
2010	ConocoPhillips Graduate Student Fellowship. \$30,000
2009	Schlanger Ocean Drilling Fellowship, Consortium for Ocean Leadership. \$27,000
2005	Department of Geosciences Outstanding Undergraduate Student, UNL
2002-06	University of Nebraska-Lincoln Regent's Scholarship

Research Cruises

June-Aug 2023	EPM/Staff Scientist for IODP Exp. 395
June- Aug 2021	EPM/Staff Scientist for IODP Exp. 395C
TBD	EPM/Staff Scientist for IODP Exp. 388 (<i>cruise postponed</i>)
Nov 2017-Jan 2018	EPM/Staff Scientist on IODP Exp. 372
Feb-March 2016	EPM/Staff Scientist on IODP Exp. 361
Dec 2014- Jan 2015	EPM/Staff Scientist on IODP Exp. 353
June-July 2013	EPM/Staff Scientist on IODP Exp. 341
May-June 2009	Nannofossil Biostratigrapher on IODP Exp. 321

Professional Development

Fall 2020	University of Illinois MasterTrack Certificate Program: Instructional Design (two 4-credit hour courses through U. Illinois)
Fall 2020	Ecological Society of America, Sustaining Biological Infrastructure, Strategies for Success Course (6 weeks)
Fall 2020	SGCI Focus Week (2 weeks)
Dec 2019	AGU 2019: Inclusive and Effective College Science Classrooms. Hosted by the Science Education Research Center at Carleton College
July 2017	Conflict Resolution. American Management Association.
June 2017	Project Management Fundamentals. TAMU.
August 2014	Time Management. American Management Association.
March 2013	Marine Geosciences Leadership Symposium. Consortium for Ocean Leadership.
November 2012	The 7 Habits of Highly Effective People. American Management Association.
September 2012	The Voice of Leadership: How Leaders Inspire, Influence and Achieve Results. American Management Association.



Invited Talks

March 2014
February 2012

Baylor University Department of Geology
Texas A&M University Department of Geology and Geophysics

Professional Membership

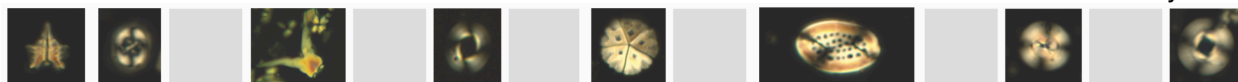
American Geophysical Union (AGU); International Nannoplankton Association (INA); North American Micropaleontology Section (NAMS), SEPM; Geological Society of America (GSA)

Peer-reviewed Publications

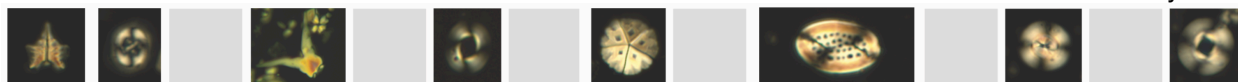
* denotes TAMU student author

- (34) Barker, S. Starr, A., van der Lubbe, J., Doughty, A., Knorr, G., Conn, S., Lordsmith, S., Owen, L., Nederbragt, A., Hemming, S., Hall, I., **LeVay, L.**, IODP Expedition 361 Shipboard Scientific Party, 2022, Persistent influence of precession on northern ice sheet variability since the early Pleistocene. *Science*, 376:961-967. DOI:10.1126/science.abm4033
- (33) Woodhouse, A., Barnes, P.M., Shorrock, A., Strachan, L.J., Crundwell, M., Bostock, H.C., Hopkins, J., Kutterolf, S., Pank, K., Behrens, E., Greve, A., Bell, R., Cook, A., Petronotis, K., **LeVay, L.**, Jamieson, R.A., Aze, T., Wallace, L., Saffer, D., Pecher, I., 2022, Trench floor depositional response to glacio-eustatic changes over the last 45 ka, northern Hikurangi subduction margin, New Zealand. *New Zealand Journal of Geology and Geophysics*, DOI: 10.1080/00288306.2022.2099432
- (32) Cartagena-Sierra, A., Berke, M.A., Robinson, R.S., Marcks, B., Castaneda, I.S., Starr, A., Hall, I.R., Hemming, S.R., **LeVay, L.J.**, Expedition 361 Science Party, 2021, Latitudinal migrations of the subtropical front at the Agulhas Plateau through the mid-Pleistocene transition. *Paleoceanography and Paleoclimatology*, 36:e2020PA004084. <https://doi.org/10.1029/2020PA004084>
- (31) Savage, H.M., Shreedharan, S., Fagereng, A., Morgan, J.K., Meneghini, F., Wang, M., McNamara, D.D., Wallace, L.M., Saffer, D.M., Barnes, P.M., Petronotis, K.E., **LeVay, L.J.**, 2021, Asymmetric brittle deformation at the Papaku Fault, Hikurangi Subduction Margin, NZ, IODP Expedition 375. *Geochemistry, Geophysics, Geosystems*, 22:e2021GC009662. <https://doi.org/10.1029/2021GC009662>
- (30) Taylor, A.K., Berke, M.A., Castaneda, I.S., Koutsodendris, A., Campos, H., Hall, I.R., Hemming, S.R., **LeVay, L.J.**, Cartagena Sierra, A., O'Connor, K., Expedition 361 Scientists, 2021, Plio-Pleistocene continental hydroclimate and Indian Ocean sea surface temperatures at the southeast African Margin. *Paleoceanography and Paleoclimatology*, 36:e2020PA004186. <https://doi.org/10.1029/2020PA004186>
- (29) Tanguan, D.N., Berke, M.A., Cartagena-Sierra, A., Flores, J.A., Gruetzner, J., Jimenez-Espejo, F., **LeVay, L.J.**, Baumann, K.-H., Romero, O., Saavedra-Pellitero, M., Coenen, J.J., Starr, A., Hemming, S.R., Hall, I.R., Expedition 362 Science Party, 2021, Biotic responses to late Pleistocene glacial-interglacial variability in the Southern Ocean sector of the Indian Ocean. *Communications Earth and Environment*, accepted.
- (28) McNamara, D.D., Behboudi, E., Wallace, L., Saffer, D., Cook, A.E., Fagereng, A., Paganoni, M., Wu, H.-Y., Kim, G., Lee, H., Savage, H.M., Barnes, P., Pecher, I., **LeVay, L.J.**, and Petronotis, K.E., 2021, Variable in situ stress orientations across the northern Hikurangi subduction margin. *Geophysical Research Letters*, 48:e2020GL091707. <https://doi.org/10.1029/2020GL091707>
- (27) Starr, A., Hall, I.R., Barker, S., Rackow, T., Zhang, X., Hemming, S.R., van der Lubbe, H.J.L., Knorr, G., Berke, M.A., Bigg, G.R., Cartagena-Sierra, A., Jimenez-Espejo, F.J., Gong, X., Gruetzner, J., Lathika, N., **LeVay, L.J.**, Robinson, R.S., Ziegler, M., and Expedition 361 Science Party, 2021, Antarctic icebergs reorganize ocean circulation during Pleistocene glacials. *Nature*, 589:236-241. <https://doi.org/10.1038/s41586-020-03094-7>

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- (26) Cook, A.E., Paganoni, M., Clennell, M.B., McNamara, D.D., Nole, M., Wang, X., Han, S., Bell, R.E., Soloman, E.A., Saffer, D.M., Barnes, P.M., Pecher, I.A., Wallace, L.M., **LeVay, L.J.**, Petronotis, K.E., 2020, Physical properties and gas hydrate at a near-seafloor thrust fault, Hikurangi margin, New Zealand. *Geophysical Research Letters*, 47:e2020GL088474. <https://doi.org/10.1029/2020GL088474>
- (25) Koutsodendris, A., Nakajima, K., Kaboth-Bahr, S., Berke, M.A., Franzese, A.M., Hall, I.R., Hemming, S.R., Just, J., **LeVay, L.J.**, Pross, J., Robinson, R., and IODP Expedition 361 Scientists, 2020, A Plio-Pleistocene (c. 0–4 Ma) cyclostratigraphy for IODP Site U1478 (Mozambique Channel, SW Indian Ocean): Exploring an offshore record of paleoclimate and ecosystem variability in SE Africa. *Newsletters on Stratigraphy*. <https://doi.org/10.1127/nos/2020/0608>
- (24) Beasley, C., Cotton, L., Al-Suwaidi, A., **LeVay, L.**, Sluijs, A., Ullmann, C.V., Hesselbo, S.P., and Littler, K., 2020. Triumph and tribulation for shallow water fauna during the Paleocene–Eocene transition; insights from the United Arab Emirates. *Newsletters on Stratigraphy*. <https://doi.org/10.1127/nos/2020/0573>
- (23) Barnett, J.S.K., Harper, D.T., **LeVay, L.J.**, Edgar, K.M., Henehan, M.J., Babila, T.L., Ullmann, C.V., Leng, M.L., Kroon, D., Zachos, J.C., Littler, K., 2020, Coupled evolution of temperature and carbonate chemistry during the Paleocene–Eocene; new trace element records from the low latitude Indian Ocean. *Earth and Planetary Science Letters*, 545:116414. <https://doi.org/10.1016/j.epsl.2020.116414>
- (22) Barnes, P.M. et al. (including **LeVay, L.J.**), 2020, Slow slip source characterized by lithological and geometric heterogeneity. *Science Advances*, 6:eaay3314. doi: 10.1126/sciadv.aay3314
- (21) Screaton, E., Torres, M., Dugan, B., Heeschen, K., Mountjoy, J.J., Rose, P., Pecher, I., Barnes, P., **LeVay, L.**, 2020, Reply to Comments by N. Sultan on “Sedimentation controls on methane-hydrate dynamics across glacial/interglacial stages: An example from International Ocean Discovery Program Site U1517, Hikurangi Margin. *Geochemistry, Geophysics, Geosystems*, 21. <https://doi.org/10.1029/2020GC009005>
- (20) Screaton, E., Torres, M., Dugan, B., Heeschen, K., Mountjoy, J.J., Rose, P., Pecher, I., Barnes, P., **LeVay, L.**, 2019, Sedimentation controls on methane-hydrate dynamics across glacial/interglacial stages: An example from International Ocean Discovery Program Site U1517, Hikurangi Margin. *Geochemistry, Geophysics, Geosystems*, 20. <https://doi.org/10.1029/2019GC008603>
- (19) Braha*, I., Hager-Hahn*, E., and **LeVay, L.J.**, 2019, Data Report: Calcareous nannofossil and bulk calcium carbonate measurements from Site U1418, Gulf of Alaska. *Proceedings of the Integrated Ocean Drilling Program*, v. 341. doi:10.2204/iodp.proc.341.205.2019
- (18) Gray, M., Bell, R.E., Morgan, J.V., Henrys, S., Barker, D.H.N., and the IODP Expedition 372 and 375 science parties (including **LeVay, L.J.**), 2019, Imaging the shallow structure of the North Hikurangi Subduction Zone, New Zealand, Using 2-D Full-Waveform Inversion. *Journal of Geophysical Research: Solid Earth*, 124. <https://doi.org/10.1029/2019JB017793>
- (17) Fagereng, A., Savage, H.M., Morgan, J.K., Wang, M., Meneghini, F., Barnes, P.M., Bell, R., Kitajima, H., McNamara, D.D., Saffer, D.M., Wallace, L.M., Petronotis, K., **LeVay, L.**, and the IODP Expedition 372/375 Scientists, 2019, Mixed deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand. *Geology*, 47:872–876. <https://doi.org/10.1130/G46367.1>
- (16) Zindorf, M., März, C., Wagner, T., Gulick, S.P.S., Strauss, H., Benowitz, J., Jaeger, J., Schnetger, B., Childress, L., **LeVay, L.**, van der Land, C., and La Rosa, M., 2019. Deep Sulfate-Methane-Transition and sediment diagenesis in the Gulf of Alaska (IODP Site U1417). *Marine Geology*, 417. <https://doi.org/10.1016/j.margeo.2019.105986>
- (15) McKinley, C.C., Thomas, D.J., **LeVay, L.J.**, and Rolewicz, Z., 2019, Nd isotopic structure of the Pacific Ocean 40–10 Ma, and evidence for the reorganization of deep North Pacific Ocean circulation between 36 and 25 Ma. *Earth and Planetary Science Letters*, 521:139–149. <https://doi.org/10.1016/j.epsl.2019.06.009>
- (14) Gruetzner, J., Jimenez Espejo, F.J., Lathika, N., Uenzelmann-Neben, G., Hall, I.R., Hemming, S.R., **LeVay, L.J.**, the Expedition 361 Scientists, 2019. A new seismic stratigraphy in the Indian-Atlantic Ocean Gateway resembles major paleo-oceanographic changes of the last 7 Ma. *Geochemistry, Geophysics, Geosystems*, 20. <https://doi.org/10.1029/2018GC007668>
- (13) Tangunan, D.N., Baumann, K.-H., Just, J., **LeVay, L.J.**, Barker, S., Brentegani, L., De Vleeschouwer, D., Hall, I.R., Hemming, S., Norris, R., the Expedition 361 Shipboard Scientific Party, 2018. The last 1 million years of the extinct genus *Discoaster*: Plio-Pleistocene environment and productivity at Site U1476 (Mozambique

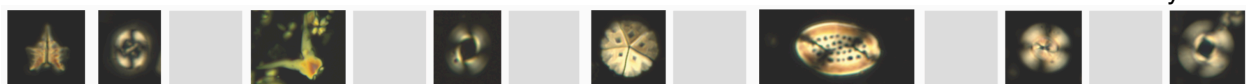


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- (11) Penkrot, M., **LeVay, L.J.**, and Jaeger, J.M., 2017. Data report: X-ray fluorescence scanning of sediment cores, Site U1419, Gulf of Alaska. In Jaeger, J.M., Gulick, S.P.S., LeVay, L.J., and the Expedition 341 Scientists, *Proceedings of the Integrated Ocean Drilling Program*, 341: College Station, TX (Integrated Ocean Drilling Program). doi:10.2204/iodp.proc.341.203.2017
- (10) Gulick, S.P.S., Jaeger, J.M., Mix, A.C. et al. (including **LeVay**), 2015, Mid-Pleistocene climate transition drives net mass loss from rapidly uplifting St. Elias Mountains, Alaska. *PNAS*, 112(49):15042-15047.
- (9) Walczak, M., Mix, A.C., Willse, T., Slagle, A., Stoner, J.S., Jaeger, J., Gulick, S., **LeVay, L.**, Kioka, A., and the IODP Expedition 341 Scientific Party, 2015, Volumetric correction of non-intrusive sediment physical properties data. *Geophysical Journal International*, 202:1317-1323.
- (8) Sluijs, A., van Rooij, L., Harrington, G.J., Schouten, S., Sessa, J.A., **LeVay, L.J.**, Reichert, G.-J., and Slomp, C.P., 2014, Warming, euxinia and sea level rise during the Paleocene/Eocene Thermal Maximum on the Gulf Coastal Plain: implications for ocean oxygenation and nutrient cycling. *Climates of the Past*, 10:1421-1439. doi:10.5194/cp-10-1421-2014
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- (6) **Schneider, L.J.**, Bralower, T.J., Kump, L.R., and Patzkowsky, M.E., 2013, Calcareous nannoplankton ecology and community change across the Paleocene-Eocene Thermal Maximum. *Paleobiology*, 39(4), 628-647. doi: 10.1666/12050
- (5) Wilkens, R.H., Dickens, G.R., Tian, J., Backman, J., and the Expedition 320/321 Scientists (including **Schneider**), 2013. Data report: revised composite depth scales for Sites U1336, U1337, and U1338. In Pälike, H., Lyle, M., Nishi, H., Raffi, I., Gamage, K., Klaus, A., and the Expedition 320/321 Scientists, *Proc. IODP*, 320/321: Tokyo (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.320321.209.2013
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- (2) **Schneider, L.J.**, Bralower, T.J., and Kump, L.R., 2011, Response of nannoplankton to early Eocene ocean de-stratification. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 310, 152-162. doi:10.1016/j.palaeo.2011.06.018.
- (1) Lyle, M., Pälike, H., Nishi, H., Raffi, I., Gamage, K., Klaus, A., and the IODP Expedition 320/321 Science Party (including **Schneider**), 2010, The Pacific Equatorial Age Transect, IODP Expeditions 320 and 321: building a 50-million-year-long environmental record of the equatorial Pacific Ocean. *Scientific Drilling*, 9, 4-15.

IODP Expedition Reports

- (19) Parnell-Turner, R., Briaies, A., **LeVay, L.J.**, and the Expedition 395 Scientists, 2022. Expedition 395C Preliminary Report: Reykjanes Mantle Convection and Climate: Crustal Objectives. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.pr.395C.2022>

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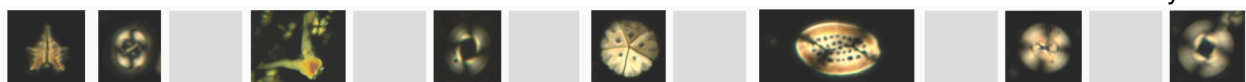


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- (16) Wallace, L.M., Saffer, D.M., Barnes, P.M., Pecher, I.A., Petronotis, K.E., **LeVay, L.J.**, and the Expedition 372/375 Scientists, 2019. Hikurangi Subduction Margin Coring, Logging, and Observatories. Proceedings of the International Ocean Discovery Program, 372B/375: College Station, TX (International Ocean Discovery Program). <http://doi.org/10.14379/iodp.proc.372B375.2019>
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- (13) Hall, I.R., Hemming, S.R., **LeVay, L.J.**, and the Expedition 361 Scientists, 2017. *South African Climates (Agulhas LGM Density Profile)*. Proceedings of the International Ocean Discovery Program, 361: College Station, TX (International Ocean Discovery Program).
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- (11) Clemens, S.C., Kuhnt, W., **LeVay, L.J.**, and the Expedition 353 Scientists, 2016. *Indian Monsoon Rainfall*. Proceedings of the International Ocean Discovery Program, 353: College Station, TX (International Ocean Discovery Program). <http://dx.doi.org/10.14379/iodp.proc.353.2016>
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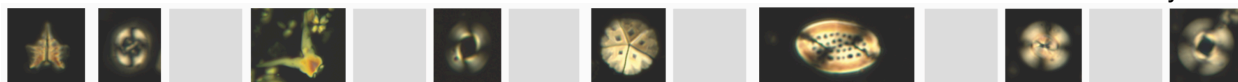
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