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Cosmic Catastrophism Affecting the Earth - Bibliography and Handbook

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1.0 General Discussion & Background

This annotated bibliography and handbook on cosmic catastrophism was prepared to keep track of articles, books, reports, and other related media to potential catastrophic events on Earth caused by cosmic visitors such as planets, asteroids, and comets to planet Earth. Occasionally documents pertaining to cosmic catastrophes outside the Earth's environment are listed because they may have bearing on the mechanisms causing catastrophes on Earth. An example is found in Hyodo et al. (2016) "Ring Formation Around Giant Planets by Tidal Disruption of a Single Passing Large Kuiper Belt Object." These types of events may also be referred to as astral or sometimes planetary catastrophism.

The recent asteroid explosion over Chelyabinsk, Russia on 15 February 2013 shows the relevance of the present document. [<http://news.discovery.com/space/asteroids-meteors-meteorites/russian-meteor-sky-isnt-falling-but-space-rocks-do-130219.htm>]

Note that some extinction on Earth may have been ultimately caused by celestial events that produced secondary effects such as earthquakes, tsunamis, and renewed volcanic action due to tidal shifting and so forth. Not all volcanic activity is caused by a cosmic visitor(s) but some information on volcanoes is also included in the present bibliography since it is catastrophic to life on Earth.

On/about 23 June 2013 at <http://phys.org/print291396902.html> ... we learn that more than ten thousand asteroids and comets that can pass near the Earth have now been discovered. They range in size from a few feet across to 41 km across. Asteroid 2013MZ5 is about 300 m across - so fairly small on the average. In the 20th century the rate was small - just 500 by 1998. After that date, with the advent of super telescopes, that figure has escalated.

At www.dailygalaxy.com/my_weblog/2013/06/nasa-1000-near-earth-objects-large... ... the same story but focuses on the fact that one thousand of them are larger than 1 km across.

I have included some documents related to catastrophic flooding when the ultimate cause is unstated in many cases.

I have also included the full name, if available, on authors where it became available to help keep the identity accurate.

Palmer states "However, in recent years, there has been growing acceptance of the view that the history of life may have been shaped by major catastrophes to a far greater extent than previously realised. Partly that has come about because of an increased knowledge of the occurrence of immense volcanic eruptions and sustained episodes of volcanism over wide areas. Another factor is a developing awareness of the threat from asteroids and comets in Earth-crossing orbits, together with the realisation that many of the craters at the Earth's surface, previously thought to be of volcanic origin, were in fact formed by impacts (See Chapters 14, 19 and 20)." [Palmer (2003), p. 338.] Note the Electric Universe theory here. Even Meteor Crater didn't have a ball of iron at the base – and it may have been the site of a thunderbolt. Patten (1988) covers the potential "Sword of the Lord" electrical discharges between Mars and Earth. White (2003) in his Chapter 16 discusses much of this type of material.

Some of the catastrophic conditions which are associated with mass extinctions are global cooling and warming, close approaches by astral visitors, major glaciation, fluctuations in sea level, global anoxia, volcanic eruptions, asteroid impacts, plate tectonics, gamma rays, and disease.

It should be noted that volcanism is included because some volcanic eruptions may have been induced if an astral visitor came close to Earth and cause large crustal deformations. Remember that the crust of the Earth is rather thin compared to the diameter of the Earth. Although it is common knowledge that some volcanism is not associated with astral visitors but with plate tectonics.

The bibliography will never be “finished,” as it has been estimated that there are over 1,000 papers alone on the Tunguska Event, mostly by Russian researchers. I will not try to gather them all!

The annotations are minimal but may assist a researcher in locating specific information. As may be expected it is a multidisciplinary study with at least the following disciplines: archaeology, astrogeophysics, astronomy, astrophysics, biology, catastrophism, chemistry, cosmology, geology, geophysics, history, linguistics, mythology, palaeontology, physics, psychology, religion, space physics, and uniformitarianism.

Beginning in September 2012 I began to add a few citations to rapid sea-level changes which occurred at the ends of ice ages presumably. Who knows, they may have been started by a celestial-related event.

For ease of movement within the document, the first letter of the alphabetic entry with the ` character (the accent grave diacritic which shares the key with the tilde symbol (~) on the keyboard to the upper left of the Q key). By using the Find function in MS Word with the ` as a prefix, for example `R will take you to the citations with the last name of the lead (or sole) author beginning with “R.”

One can use the SAO/NASA Astrophysics Data System [<http://www.adsabs.harvard.edu/>] to determine the citation history to various documents. Note that the Citation database in the ADS is **NOT** complete. Please keep this in mind when using the [ADS Citation lists](#).

The author has no responsibility for the persistence or accuracy of universal resource locators (URLs) for external or third-party internet websites referred to in this publication, and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

1.1 News Related to Asteroids

This Earth Day, Tuesday, April 22, 2014 three former NASA astronauts will present new evidence that our planet has experienced many more large-scale asteroid impacts over the past decade than previously thought... three to ten times more, in fact. A new visualization of data from a nuclear weapons warning network, to be unveiled by B612 Foundation CEO Ed Lu during the evening event at Seattle's Museum of Flight, shows that "the only thing preventing a catastrophe from a 'city-killer' sized asteroid is blind luck."

Since 2001, 26 atomic-bomb-scale explosions have occurred in remote locations around the world, far from populated areas, made evident by a [nuclear weapons](#) test warning network. In a recent press release B612 Foundation CEO Ed Lu states:

"This network has detected 26 multi-kiloton explosions since 2001, all of which are due to asteroid impacts. It shows that asteroid impacts are NOT rare—but actually 3-10 times more common than we previously thought. The fact that none of these asteroid impacts shown in the video was detected in advance is proof that the only thing preventing a catastrophe from a 'city-killer' sized asteroid is blind luck. The goal of the B612 Sentinel mission is to find and track asteroids decades before they hit Earth, allowing us to easily deflect them."

Read more at: <http://phys.org/news/2014-04-astronauts-reveal-sobering-asteroid-impacts.html#jCp>

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“Impacts, extinctions and climate in the search for life elsewhere,”

Dec 16, 2014 by Jonti Horner, Belinda Nicholson and Brad Carter, The Conversation

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A reconstruction of the path and damage caused by the asteroid that exploded over Chelyabinsk, Russia, in February 15, 2013. Flickr/Sandia Labs, CC BY-NC-ND

1.2 About the Author

William Thompson is a retired physicist and systems engineer. He holds a M.A. in physics from Clark University and a M.Sc. in astrogeophysics from the University of Colorado Boulder. He has held research and engineering positions at the former NASA Electronics Research Center, the U.S. Department of Transportation and several defense contractors including GTE Government Systems, Science Applications International Corp. and BAE Systems. His avocational interest for over four decades has been in studying cosmic catastrophism affecting the Earth in ancient times.

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As strange as it may seem, the mystery has never been adequately addressed by NASA scientists.

In this interview, David Talbott explains why repeated electrostatic cleanings are the only plausible explanation for the rovers’ stunning lifespans. This explanation ([first proposed on Thunderbolts.info back in 2005](http://www.thunderbolts.info)) is made ironic by the latest developments in [self-cleaning solar panel](http://www.thunderbolts.info) technologies – intended for use in future Mars missions. [Online:] <http://www.thunderbolts.info/wp/2012/12/09/david-talbott-on-mars-mysteries-pt-one/>

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End

3.0 Related Websites

Table 1. List of Websites Related to Celestial Catastrophism and related Events in no particular order.

Name	Universal Resource Locator (URL)	Comments
Global Disturbances as a Result of Cosmic Chaos	www.gks.uk.com/geoev/	<ul style="list-style-type: none"> • Gary Gilligan • God King Scenario (GKS) • Global Catastrophes, Dark Ages, Impact Cratering on Earth • Over 35 websites identified as of 21 June 2014.
Catastrophism	www.pibburns.com/catastro.htm	<ul style="list-style-type: none"> • Last updated in 17 July 2010 • Looks very interesting. • Philip Burns
Catastrophist Manifesto	www.catastrophist.org/home/catastrophist-manifesto-2007/	<ul style="list-style-type: none"> • Hans Kloosterman
The International Society for Archaeoastronomy and Astronomy in Culture	http://www1.archaeoastronomy.org/	<ul style="list-style-type: none"> • The tenth “Oxford” International Symposium on Archaeoastronomy will take place in Cape Town, South Africa, on July 12–18, 2014.
European Society for Astronomy in Culture	www.archaeoastronomy.org/publications/index.html	<ul style="list-style-type: none"> • Dr. Michael A. Rappenglück MA President 2011. • Fifteen (15) conferences have been held as of 2013.
Cosmopier	http://sites.google.com/site/cosmopier/	This site is dedicated to a new approach on the solar system astrophysics, archaeology, paleontology, archaeoastronomy, climate studies, water resources and environmental evolution from the End-Pleistocene and Holocene. The site shares some clues about craters, scars, palaeolagoons and their possible cosmic origin.
SAO/NASA Astrophysics Data System	www.adsabs.harvard.edu	<ul style="list-style-type: none"> • Publications • Citation listings
Ernst Claudin Impact Structures – Meteorite Craters	www.impact-structures.com	<ul style="list-style-type: none"> • Research on impact geology, geophysics, petrology, and impact cratering • Lots of information here.

Name	Universal Resource Locator (URL)	Comments
Catastrophism! - Man, Myth and Mayhem in Ancient History and the Sciences	www.catastrophism.com Includes: archaeology, astronomy, biology, catastrophism, chemistry, cosmology, geology, geophysics, history, linguistics, mythology, palaeontology, physics, psychology, religion, and uniformitarianism	<ul style="list-style-type: none"> • 450 publications • 5,000 images • 6,000 documents • Costs about \$175.00 • Ian Tresman's site. Lots to interest all and a high spec CD to boot (also available from the SIS Book Service)
Institute for Interdisciplinary Science (INFIS)	www.infis.org	
Impact Earth	www.purdue.edu/ImpactEarth	Pierazzo et al. (2012) and Collins et al. (2012)
Cosmochemistry Illustrated	www.higp.hawaii.edu/cosmoeye/ See also www.psrdr.hawaii.edu	Space science slide presentations.
Global Flood	www.globalflood.org	Dr. John R. Baumgartner model catastrophic plate tectonics
Earth Impact Database (EID)	www.unb.ca/passc/ImpactDatabase	Extensive listing of related links.
Creationism	www.creationsim.org	Paul Abramson, Webmaster Noah's flood.
Geological Society of America, Inc.	www.geosociety.org	
Maverick Science	www.maverickscience.com	
Meteorite Impact References by Topic, Cochise College, Virtual Geology Museum (VGM), Hall of Meteorites,	http://skywalker.cochise.edu/weller/meteorite-impact-ref/metref-topic-list.htm	Roger Weller, Geology Instructor Last updated 2007.
Bob Kobres Web Page	http://abob.libs.uga.edu/bobk/cb_aymenu.html	Carolina Bays plus.
George Howard's website	http://www.georgehoward.net/cb_bays.htm	Maintained by George Howard. Carolina Bays
Information about asteroids and near-Earth objects from NASA JPL.	http://www.jpl.nasa.gov/asteroidwatch	
Information about asteroid radar research.	http://echo.jpl.nasa.gov/	
The Meteoritical Society	www.meteoriticalsociety.org	
Near-Earth Objects Program	http://neo.jpl.nasa.gov/neo/	
Planetary Science Research Discoveries (PSRD)	www.psrdr.hawaii.edu	Cosmochemistry web journal of meteorites, asteroids, planets, moons, and other materials in our Solar System.
Plasma Universe	http://plasmauniverse.info/	Dr. Anthony L. Peratt

Name	Universal Resource Locator (URL)	Comments
Plot of proper eccentricity versus proper semi-major axis for the main belt asteroid population	http://hamilton.dm.unipi.it/astdys/	Proper elements computed by A. Milani and Z. Knezevic. Cellino and Dell'Oro (2009).
NASA JPL NEO Program Close Approach Tables for the period 1900 – 2200 A.D.	http://neo.jpl.nasa.gov/ca/	
NASA's NEO Statistics	http://neo.jpl.nasa.gov/stats/	Pierazzo et al. (2012)
MIT Lincoln Laboratory Lincoln Near Earth Asteroid Research (LINEAR)	http://www.ll.mit.edu/mission/space/linear/	
Tunguska Home Page	http://www-th.bo.infn.it/tunguska/index.html	University of Bologna (Italy), Department of Physics
Mythopedia: Introducing Plasma Mythology	http://mythopedia.info/	Managed by: Marinus Anthony van der Sluijs
Crater Hunter Blog	https://craterhunter.wordpress.com/	Excellent material.
Near Earth Asteroids (NEAs) - A Chronology of Milestones	www.iau.org/public/nea	
The Velikovsky Encyclopedia	www.velikovsky.info	
Mungoflix	www.mungoflix.com	Peter "Mungo" Jupp's website.

4.0 Conferences/Symposiums/Meetings/DVDs/Videos

Table 2 List of Some Conferences and Symposiums Dealing with Celestial Catastrophism Issues both upcoming and past. Conferences are not listed in any particular order at this time, but future conferences are listed in bold at the top of the list. [8]

Title	Location, Date(s), Sponsor(s)	Comments
Dynamic Earth	University of Bath, UK- 06-10 July 2019	www.electricuniverseuk.eu/dynamic-earth-2019
Electric Universe – United Kingdom International Conference & Symposium	Apex Hotel, Bath 07-11 July 2018	https://www.electricuniverseuk.eu/reconnect-2018/
Electric Meteors Becoming Accepted Science Space News	Thunderbolts Project https://www.thunderbolts.info	https://www.youtube.com/watch?v=T9QfpbyjCaE&feature=youtu.be
Asteroid Strike near Chelyabinsk in Russia	DVD of a NOVA program.	http://www.pbs.org/wgbh/nova/earth/meteor-strike.html
Celestial Crisis and the Human Record	Toronto, Canada 16-19 May 2016	http://www.planetamnesia.com/toronto-conference/
Large Meteorite Impacts and Planetary Evolution V	Sudbury, Canada 05-08 August 2013	http://www.hou.usra.edu/meetings/sudbury2013/
METSOC 2013 Edmonton	Edmonton, Canada 29 Jul – 02 Aug 2013	http://metsoc2013edmonton.org/ 76th Annual Meeting of the Meteoritical Society
Volcanism, Impacts, and Mass Extinctions: Causes and Effects	London, England 27-29 March 2013	http://massextinction.princeton.edu Co-sponsored by Mineralogical Society of Great Britain and Ireland and the Volcanic and Magmatic Studies Group.
Asteroids, Comets, Meteors (ACM) 2012	Niigata, Japan 16-20 May 2012	http://chiron.mtk.nao.ac.jp/ACM2012 I have some abstracts in my files.
Second Arab Impact Cratering and Astrogeology Conference (AICAC II)	Casablanca, Morocco 13-20 Nov 2011	www.fsac.ac.ma/aicacii/index.html Elements , Vol. 8, No. 1, Feb. pp. 64-65.
Conference on Quantavolution	Athens, Greece 07-10 Oct. 2011	www.qconference-athens-2011.grazian-archive.com
Stars and Stones: Voyages in Archaeoastronomy and Cultural Astronomy - A Meeting of Different Worlds	Évora, Portugal 19-24 Sep. 2011 SEAC	19th congress of SEAC. European Society for Astronomy in Culture. www.ciuht.com/seac2011/

Title	Location, Date(s), Sponsor(s)	Comments
New Scenarios for the Solar System Evolution and Consequences in History of Earth and Man	June 1999 Milano, Sala Conferenze della Provincia, via Corridoni 16, June 7 and 8 Bergamo, Sala dei Giuristi, Citta' Alta, June 9	http://www.unibg.it/convegni/NEW_SCENARIOS/English.htm Cannot find conference proceedings. I think they were published in 2002.
Conference on Large Body Impacts and Terrestrial Evolution: Geological, Climatological, and Biological Implications	Snowbird, UT, USA October 1981 Lunar and Planetary Institute (LPI) National Academy of Sciences (NAS)	Over 100 delegates. Proceedings GSA Special Paper 190. "Geological Implications of Impacts of Large Asteroids and Comets on the Earth." See Silver and Schultz (1982).
Proceedings of the First Seminar of Catastrophism and Ancient History	04 Dec. 1982 Catastrophism and Ancient History	www.catastrophism.com/cdrom/pubs/journals/cat-anc/proc1/index.htm The Full Text of this article/publication can be found either: On the Catastrophism! CD-Rom On this web site at Catastrophism! Online
Proceedings of the Second Seminar of Catastrophism and Ancient History	03 Dec. 1983 Catastrophism and Ancient History	www.catastrophism.com/cdrom/pubs/journals/cat-anc/proc2/index.htm The Full Text of this article/publication can be found either: On the Catastrophism! CD-Rom On this web site at Catastrophism! Online
Proceedings of the Third Seminar of Catastrophism and Ancient History	Catastrophism and Ancient History	www.catastrophism.com/cdrom/pubs/journals/cat-anc/proc3/index.htm The Full Text of this article/publication can be found either: On the Catastrophism! CD-Rom On this web site at Catastrophism! Online
International Conference on Archaeoastronomy "Ancient Watching of Cosmic Space and Observation of Astronomical Phenomena"	Rhodes, Greece 06-10 April 2006	Proceedings in Archaeology and Archaeometry: An International Journal, Special Issue, Vol. 6, No. 3. Editor: Ioannis Liritzis
First International Conference on Impact Cratering in the Solar System	08-12 May 2006 European Space Agency (ESA)	Notes 2-5.

Title	Location, Date(s), Sponsor(s)	Comments
First International Conference on Large Meteorite Impacts	Geological Society of America	Might be the "Sudbury" series. Titles of Conferences change. Dressler, Burkhard O., R. A. F. Grieve, and Virgil L. Sharpton – Editors – (1994) Large Meteorite Impacts and Planetary Evolution , Special Paper, Geological Society of America, Boulder, CO. [May be the First Conference.]
International Conference on Large Meteorite Impacts and Planetary Evolution	Sudbury, Ontario, Canada 01-03 Sept. 1997 Geological Society of America	Dressler, B. O. and V. L. Sharpton – Editors – (1999), GSA Special Paper 339, Conf. No. II
Third International Conference on Large Meteorite Impacts	Nördlingen, Germany 05-07 August 2003 German Science Foundation (DFG) Lunar and Planetary Institute, Houston Humboldt University, Berlin	Kenkmann et al. (2005)
Fourth International Conference on Large Meteorite Impacts	Geological Society of America	Gibson, R. L. and W. U. Reimold (2010) GSA Special Paper 465 Conf. No. IV
Fifth International Conference on Large Meteorite Impacts	Geological Society of America	
The First Arab Impact Cratering and Astrogeology Conference	Amman, Jordan 09-11 Nov. 2009	See Note 1.
Annual Lunar and Planetary Science Conference (LPSC)	Lunar and Planetary Science Institute, Houston, Texas, USA Held in March	Annual event with sessions on catastrophic themes. 2013 conference program online at http://www.lpi.usra.edu/meetings/lpsc2013/programAbstracts/view/lpsc2013_full_program.pdf
Near-Earth Objects: The United Nations Conference on Near-Earth Objects	New York, NY, USA 24-26 April 1995 United Nations	
The Impact of Natural Catastrophes on Ancient Mediterranean Civilizations	Island of Rhodes, Greece 28-30 Oct 2005	
International Conference "100 years since Tunguska phenomenon: Past, present and future"	Moscow, Russia 26-28 June 2008	Proceedings exist.

Title	Location, Date(s), Sponsor(s)	Comments
SEPM Research Conference The Sedimentary Record of Meteorite Impacts	Springfield MO, USA 21-22 May 2005 Society for Sedimentary Geology (SEPM)	
Field Forum	South Africa 04-09 July 2004 Geological Society of America Geological Society of South Africa	
Clovis in the Southeast	Columbia, SC, USA	Dr. Al Goodyear. Prior to 2005.
2004 Planetary Defense Conference: Protecting Earth from Asteroids	23-26 Feb. 2004	www.planetarydefense.info/index.html Photographs of speakers and one can download any of the 48 presentations.
2007 Planetary Defense Conference	Washington, DC, USA 05-08 March 2007	Cloyd Heck Marvin Center at George Washington University. Note 6.
1st International Academy of Astronautics (IAA) Planetary Defense Conference: Defending Earth from Asteroids	Granada, Spain 27-30 April 2009	http://www.congrex.nl/09c04/
Evidence that the Earth has Suffered Catastrophes of Cosmic Origin in Historical Times	Cambridge UK 16-18 July 1993 SIS	First Society for Interdisciplinary Studies (SIS) Cambridge Conference www.knowledge.co.uk/sis/
Natural Catastrophes During Bronze Age Civilisations: Archaeological, Geological, Astronomical and Cultural Perspectives	Cambridge UK 11-13 July 1997 SIS	www.knowledge.co.uk/sis/ Peiser, Benny J., Trevor Palmer, and Mark E. Bailey – Editors – (1998) Natural Catastrophes During Bronze Age Civilisations: Archaeological, Geological, Astronomical and Cultural Perspectives , Proceedings of the Second Society for Interdisciplinary Studies (SIS) Cambridge Conference, 11-13 July 1997, British Archaeological Reports (BAR) 728, Archaeopress, Oxford, ISBN 086054916X.
International Symposium on Hazardous Near Earth Asteroids	Valletta, Malta 12-16 October 2009 Russian Academy of Sciences	Note 6.
EPSC-DPS Joint Meeting 2011	Nantes, France 02-07 October 2011	http://meetingorganizer.copernicus.org/epsc-dps2011/meetingprogramme European Planetary Science Congress (EPSC) and Division of Planetary Sciences (DPS) of the American Astronomical Society (AAS).

- [1] <http://onlinelibrary.wiley.com/doi/10.1111/j.1945-5100.2010.01016.x/pdf>
- [2] Agenda and Presentations: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=39029&fbodylongid=1869>
- [3] Conference Proceedings: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=39029&fbodylongid=1924>
- [4] Print Only: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=39029&fbodylongid=1873>
- [5] Poster Sessions: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=39029&fbodylongid=1870>
- [6] <http://www.aero.org/conferences/planetarydefense/2007papers/WhitePaperFinal.pdf>
- [7] <nea2009.cosmos.ru/>, <[iya2009malta.page.tl/International-Symposium-on-Near_Earth-Hazardous-Asteroids.htm](http://iya2009malta.page.tl/International-Symposium-on-Near-Earth-Hazardous-Asteroids.htm)>.
- [8] **Elements** has a Calendar feature in each bi-monthly issue. ISSN 1811-5209

5.0 Short Papers and Synopses

Table 3. Partial Listing of Short Papers in Chronology & Catastrophism Workshop (C&CW)

Author	Title	C&CW	Comments
Acheson, Mel	Whimsical Science	2010:2, p. 28	
Gilligan, Gary	The Sahara Desert	2010:2, pp. 26-27	
Hissink, Louis	The Electrical Origin of Kimberlite Pipes	2010:2, p. 26	
Smith, Stephen	Earth Cycles	2010:2, pp. 27-28	Nice write-up.
Thornhill, Wal	Our Misunderstood Sun	2010:2, p. 25	www.holoscience.com

6.0 Bibliographies

Table 4 Partial listing of publications with extensive bibliographies related to celestial catastrophes. See the Celestial Catastrophism Bibliography for details.

Citation/Title	Estimated No. of Citations	Comments
Allan & Delair (1997)	1,639	
Bevan (1998)	350	
Burns, Philip R. (1996) "Annotated Bibliography for Catastrophism: Overview"	150	Note 2
F. Claudin, K. Ernstson: Publications on meteorite impact topics. http://www.impact-structures.com/references/publications-f-claudin-k-ernstson/	100	2013
Firestone et al. (2006)	398	
Hanslmeier, Arnold (2009A)	267	
Huggett, Richard John (1997)	700	
NASA - Asteroid and Comet Impact Hazard Bibliography (1992-2000) at http://www2.fiu.edu/~longoria/gly3034-sp/gly3034sp/AsteroidCometImpactHazards.pdf	TBD	Note 1.
Van Flandern (1998)	250+	Revised.

[1] <http://impact.arc.nasa.gov/biblio.cfm>

[2] <http://www.pibburns.com/catasbib.htm>

7.0 Relevant Periodicals

Table 5 Selected Journals that Potentially Deal with Celestial or Cosmic Catastrophism.

Journal Title	Acronym	ISSN	Notes
Acta Geophysics and Geodetica Hungarica			
Aeon: A Journal of Myth, Science, and Ancient History			www.catastrophism.com
Archaeoastronomy: the journal of Astronomy in Culture			http://terpconnect.umd.edu/~tlaloc/archastro/
Archaeoastronomy & Ethnoastronomy Newsletter			http://terpconnect.umd.edu/~tlaloc/archastro/
Astrobiology			
Astronomy & Astrophysics	A&A	See notes.	An International Weekly Journal Print: 0004-6361 Electronic: 1432-0746
Astronomy & Geophysics			Astron. & Geophys. ?
Astrophysics and Space Science			
Catastrophist Geology			www.catastrophism.com Note 2
Catastrophism and Ancient History: A Journal of Interdisciplinary Study	C&AH	0733-8058	www.catastrophism.com Note 1.
Chronology and Catastrophism Review: The Journal of The Society for Interdisciplinary Studies	C&CR	0953-0053	Society for Interdisciplinary Studies www.sis-group.org.uk
Chronology & Catastrophism Workshop	C&CW	0951-5984	Society for Interdisciplinary Studies www.sis-group.org.uk
Creation Research Society Quarterly	CRSQ		
Earth, Moon, and Planets: An International Journal of Solar System Science.		P 0167-9295 O 1573-0794	
Earth Planetary Science Letters			
Earth-Science Reviews		0012-8252	
Geochimica et Cosmochima Acta			
Geophysical Research Letters			
GSA Today			
Horus			www.catastrophism.com
Icarus: International Journal of Solar Systems Studies		0019-1035	
IEEE Transactions on Plasma			

Journal Title	Acronym	ISSN	Notes
Science			
Impact Studies		1612-8338	Ten in the series as of 02 Nov 2010. Springer.
International Journal of Astrobiology			
International Journal of Impact Engineering			
Journal for the Study of the Old Testament	JOT		http://jot.sagepub.com http://intl-jot.sagepub.com
Journal of Astronomical History & Heritage			
Journal of Creation			http://creation.com/journal-of-creation-archive-index
Journal of Geophysical Research	JRG	0148–0227	
Journal of Geophysical Research - Planets	JGR-P		
Journal of Geomagnetism and Geoelectricity		0022-1392	
Journal of Glaciology			
Journal of Sedimentary Research	JSR		
Kronos			Copies available at www.catastrophism.com
Marine Micropaleontology			
Meteoritics and Planetary Science: Journal of the Meteoritics Society	MAPS	1086-9379	www.meteoriticalsociety.org Online ISSN: 1945-5100
Monthly Notices of the Royal Astronomical Society	MNRAS	0035-8711	Mon. Not. R. Astron. Soc.
National Geographic	NG		Monthly magazine. NGS
Nature			
Nature Geoscience			
New Scientist			
Palaos			SEPM
Pensee - Immanuel Velikovsky Reconsidered			www.catastrophism.com
Proceedings of the National Academy of Sciences of the United States of America. [Proc. Nat. Acad. Sci. USA]	PNAS		
Reviews of Geophysics			
Science	Sci.		
Scientific American			

Journal Title	Acronym	ISSN	Notes
Tectonophysics			Elsevier B.V.
The Holocene		0959-6836	Print ISSN: 0959-6836 Online ISSN: 1477-0911
The Velikovskian			www.catastrophism.com

[1] **Catastrophism and Ancient History: A Journal of Interdisciplinary Study** was a biannual journal that ran between 1978 - 1993 totaling 30 issues and three seminar Proceedings. Marvin Arnold Luckerman was Executive Editor and David Talbott was associated with it.

http://www.velikovsky.info/Catastrophism_and_Ancient_History_Journal

[2] http://www.velikovsky.info/Catastrophist_Geology

8.0 Related Organizations

Table 6. Some organizations related to celestial catastrophism [02 June 2015].

Name	URL	Notes
Center for Archaeoastronomy, College Park, Maryland, USA	http://terpconnect.umd.edu/~tlaloc/archastro/	
European Society for Astronomy in Culture (SEAC)	www.archeoastronomy.org	
European Space Agency (ESA)		
Geological Society of America (GSA)		
German Science Foundation (DFG)		
Holocene Impact Working Group (HIWG)	http://en.wikipedia.org/wiki/Holocene_Impact_Working_Group	Appears to be dormant as of 02 June 2015.
Lunar and Planetary Science Institute		
National Academy of Sciences (NAS)		
National Aeronautics and Space Administration (NASA)		
Russian Academy of Sciences		
Society for Interdisciplinary Studies (SIS)	www.knowledge.co.uk/sis/	
Society for Sedimentary Geology (SEPM)		
Thunderbolts Project	www.thunderbolts.info	

9.0 Databases

The Earth Impact Database represents a compilation of information from around the world. Maintaining this site is both a formidable task and a formidable responsibility. Moreover, it is a task that is growing because over the last 25 years the impact process has been increasingly appreciated by the Earth Sciences community as an important planet-building and planet-modifying process. A consequence of this is the exponential growth in publications relating to impact. For this reason, we require the cooperation of the geological community in maintaining this site. We ask that specialists notify us of developments relating to impact processes on Earth.

Table 7 Computer Databases of Earth's Impact Structures. [1] Accessed on 30 Sep 2010.

Name	URL/Source/Discussion	Comments
SAO/NASA Astrophysics Data System	http://www.adsabs.harvard.edu/ The SAO/NASA Astrophysics Data System (ADS) is a Digital Library portal for researchers in Astronomy and Physics, operated by the Smithsonian Astrophysical Observatory (SAO) under a NASA grant. The ADS maintains three bibliographic databases containing more than 9.4 million records: Astronomy and Astrophysics, Physics, and arXiv e-prints. The main body of data in the ADS consists of bibliographic records, which are searchable through <u>highly customizable query forms</u> , and full-text scans of much of the astronomical literature which can be <u>browsed or searched</u> via our full-text search interface. Integrated in its databases, the ADS provides access and pointers to a wealth of external resources, including electronic articles, data catalogs and archives. We currently have links to over 9.5 million records maintained by our collaborators.	24 March 2012
The Full Catalogue of the Earth's Impact Structures	http://www.sccc.ru/impact/index1.html Russian Academy of Sciences Mathematical Department Novosibirsk Scientific Centre Institute of Computational Mathematics and Mathematical Geophysics SB RAS Mikheeva, Anna V. (2013) "The Full Catalogue of the Earth's Impact structures, 2056 records," URL: labmpg.sccc.ru/impact/ . (in Russian and English)	1,017 records
Impact Earth	www.purdue.edu/impactearth	Purdue Univ. & Imperial College, London [January 2017]
Impact Database	http://impacts.rajmon.cz/ Dr. David Rajmon	896 records, Version 2010.1

	Shell, Houston, TX, USA	(17 May 2010)
Earth Impact Database	http://www.passc.net/EarthImpactDatabase/index.html The Planetary and Space Science Centre (PASSC) University of New Brunswick Fredericton, New Brunswick, Canada	Last updated on 07 August 2010.

[1] http://en.wikipedia.org/wiki/Earth_Impact_Database

10.0 Blogs

Thunderbolts Forum (2012-06-25) “11,000 B.C. Extinction,” Thunderbolts Project, [Online:] <http://www.thunderbolts.info/forum/phpBB3/viewtopic.php?f=4&t=994> [124 posts as of 25 June 2012.]

11.0 Abbreviations, Acronyms, and Symbols

For ease of movement within the acronyms and abbreviations, the first letter of the alphabetic entry with the ` character (the accent grave diacritic which shares the key with the tilde symbol (~) on the keyboard to the upper left of the Q key). By using the Find function in MS Word with the ` as a prefix, for example `R will take you to the beginning of the acronyms beginning with “R.”

`#

2dF#1GRS 2 degree Field Galaxy Redshift Survey
2MASS Two Micron All-Sky Survey [WISE]

Greek

λ CDM Lambda Cold Dark Matter theory

`A

AAA Aten, Apollo, Amor [Near-Earth Asteroid Classes]
AAAS American Association for the Advancement of Science
AAS American Astronomical Society
ABAA Antiquarian Booksellers Association of America
ABR Associates for Biblical Research [www.BibleArchaeology.org]
ABS American Bible Society
ACCLAIM Antarctic Circumpolar Current Levels by Altimetry and Island Measurements
ACE Advanced Composition Explorer [NASA spacecraft.]
ACG Alternative Cosmology Group [<http://cosmologystatement.org>]
ACM Asteroids, Comets, Meteors [Meeting sponsored by LPI and the Meteoritical Society. Usually ACM nnnn where nnnn is the year.]
ACOR American Center for Oriental Research
ACORN Australian Climate Observations Reference Network
ACR Anomalous Cosmic Rays
ACRIM Active Cavity Radiometer Irradiance Monitor [missions]
A.D. anno Domini or AD
ADAS Asiago DLR Asteroid Survey
ADC accretion disk corona
ADC analog-to-digital-converter
ADEPT Advanced Dark Energy Physics Telescope
adj. adjective
ADS Astrophysics Data System (SAO/NASA) [<http://adswww.harvard.edu/>]
AFM atomic force microscopy
AFTAU American Friends of Tel Aviv University
AGES Arecibo Galaxy Environment Survey
AGI American Geological Institute
AGILE Astrorivelatore Gamma ad Immagini ultra LEggero
AGN active galactic nucleus
AGU American Geophysical Union
AGW anthropogenic global warming

AHD	The American Heritage® Dictionary of the English Language, Fourth Edition copyright ©2000 by Houghton Mifflin Company. Updated in 2009.
AIA	Atmospheric Imaging Assembly [Telescope on board the NASA Solar Dynamics Observatory.]
AICAC	Arab Impact Cratering and Astrogeology Conference [2009]
AICAC II	Second Arab Impact Cratering and Astrogeology Conference [2011 Morocco]
AIP	American Institute of Physics
AIP	Australian Institute of Physics
AJ	Astronomical Journal
ALICE	Not an acronym – The name of Rosetta’s miniature UV Imaging Spectrograph
ALMA	Atacama Large Millimeter/submillimeter Array
ALOS	Advanced Land Observation Satellite [Japan]
AM	angular momentum
AMOC	Atlantic Meridional Overturning Circulation
AMS	accelerator mass spectrometry or spectrometer
ANCPOD	Ancient Destructions Picture of the Day
ANDRILL	ANtartic geological DRILLing project
ANE	ancient Near East
ANGEO	Annales Geophysicae [Journal of the EGU]
ANSMET	Antarctic Search for Meteorites (United States)
ANU	Australian National University
AP	Arcadia Planitia [location on Mars.]
APEX	Atacama Pathfinder Experiment [ESO 12-m telescope in Chile.]
ApJ	Astrophysical Journal
APOD	Astronomy Picture of the Day [Online:] http://apod.nasa.gov/
APS	Astrophysical and Planetary Sciences Department [Univ. Colorado Boulder]
APWP	[African] Apparent Polar Wander Path
AR	active region [On the Sun.]
ARC	Astrophysical Research Consortium
ARJ	Answers Research Journal [www.answersingenesis.org]
ARTEMIS	Acceleration, Reconnection, Turbulence and Electrodynamics of the Moon’s Interaction with the Sun [NASA mission]
ASI	Advanced Study Institute (NATO)
ASI	Australian Scientific Instruments
ASIAA	Academia Sinica Institute for Astronomy and Astrophysics
ASKAP	Australian Square Kilometer Array Pathfinder
ASL	above sea level
ASOR	American Schools of Oriental Research
ASP	Astronomical Society of the Pacific
ASPERA-4	Analyser of Space Plasmas and Energetic Atoms [Venus Express spacecraft.]
AST3-1	Antarctic Survey Telescopes
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer [Japan]
ASU	Arizona State University
ATA	Allen Telescope Array
ATERU	supercomputer NAOJ
ATLAS	Asteroid Terrestrial-Impact Alert System [University of Hawaii]

a.u.	astronomical unit
AU	astronomical unit
AURA	Association of Universities for Research in Astronomy, Inc.
AVGR	[NASA] Ames Vertical Gun Range
`B	
B&N	Barnes & Noble
BAR	Biblical Archaeology Review
BAR	British Archaeological Reports
B.A.R.	British Archaeological Reports
BASOR	Bulletin of the American Schools of Oriental Research
BB	Big Bang [theory]
BBC	British Broadcasting Corporation
BC	Before Christ
B.C.	Before Christ
BCE	Before common era [replaces BC]
B.C.E.	Before common era [replaces B.C.]
BCS	Bloody Creek structure
BDA	Base Données Amas
BDA	building-destruction-abandonment
BEDS	Briefly Exposed Diluvial Sediments [Oards, hypothesis]
BGC	Berkeley Geochronology Center [Univ. of California]
BH	Black Hole
BICANE	Bronze to Iron Age Chronology in the Ancient Near East
BICEP2	Background Imaging of Cosmic Extragalactic Polarization 2 telescope [Antarctica]
BLM	U.S. Bureau of Land Management
BM	black mat
BOM	Bureau of Meteorology [UK]
BOSCO	Background-Oriented Schlieren using Celestial Objects
BOSS	Baryon Oscillation Sky Survey
BP	years before the present
BSE	back-scattered electron
BSB	Bible & Science Bibliography – William I. Thompson III
BWD	Blackwater Draw, [New Mexico]
`C	
C	Carbon
C	degrees Centigrade or °C
°C	degrees Centigrade
C&AH	Catastrophism and Ancient History: A Journal of Interdisciplinary Study
C&C	Chronology & Catastrophism
C&CR	Chronology & Catastrophism Review [www.sis-group.org.uk]
C&CW	Chronology & Catastrophism Workshop [www.sis-group.org.uk]
CAARI	Cyprus American Archaeological Research Institute
CAB	Centre of <u>Astrobiology</u>
CAI	calcium-aluminum-rich inclusions

cal	calendar years [Radiocarbon dating.]
Caltech	California Institute of Technology
CAMP	Central Atlantic Magmatic Province
CAMS	Cameras for Allsky Meteor Surveillance in Northern California
CAPS	Cassini's Plasma Spectrometer [Cassini-Solstice spacecraft (2012)]
CARMA	Combined Array for Research in Millimeter-Wave Astronomy
CASA	Center for Astrophysics & Space Astronomy (University of Colorado at Boulder)
CB	cosmic body
CBAT	Central Bureau for Astronomical Telegrams [http://www.cbat.eps.harvard.edu/index.html]
CC	conventional chronology
CCAT	Cerro Chajnantor Atacama Telescope
CCCP	Caltech Core-Collapse Project
CCD	charge-coupled device
CCLDAS	Colorado Center for Lunar Dust and Atmospheric Studies [Univ. Colorado Boulder]
CCNet	Cambridge Conference Network
CCP	cubic close packing
CDM	cold dark matter
CE	Common Era or C.E.
CELD	Creation-Evolution Literature Database
CERES	Clouds and the Earth's Radiant Energy System Experiment [NASA Langley Research Center orbiting instruments]
CERN	European Organisation for Nuclear Research
CET	Central European Time
CEV	Holy Bible: Contemporary English Version
CfA	Harvard-Smithsonian Center for Astrophysics
CFBs	continental flood basalts
CFDL	current-free double layer [electrical plasma]
CFSA	Center for the Study of First Americans [www.centerfirstamericans.com]
CGRO	Compton Gamma Ray Observatory
CHAMPS	Charge and Mass Characteristics of Charged Meteoric Smoke Particles [Univ. Colorado Boulder]
CHB	cryohydrological basin
CHFT	Canada-France-Hawaii Telescope
CI	Campanian Ignimbrite [Campi Flegrei eruption]
CIBER	Cosmic Infrared Background Experiment
CICLOPS	Cassini Imaging Central Laboratory for Operations
CID	channel iron deposits
CIMP3/5	TBD
CIO	Cosmic Impact Oscillation
CIPS	Center for Integrated Plasma Studies [Univ. Colorado Boulder]
CIRS	composite infrared spectrometer (Cassini spacecraft)
CIRT	Chiemgau Impact Research Team
CIT	California Institute of Technology [a.k.a. Caltech]

CIV	critical ionization velocity
CJES	Canadian Journal of Earth Sciences
CLASH	Cluster Lensing And Supernova Survey with Hubble
CLOE	Center of Lunar Origin and Evolution [NASA Lunar Science Institute]
CLOMON2	close-approach monitoring system
CLOs	comet-like objects
CLS	Canadian Light Source [synchrotron]
cm	centimeter [1/100 of a meter]
CM	carbonaceous chondrite [meteorite]
CMAC	Center for Maritime Archaeology and Conservation [Texas A&M University]
CMB	Cosmic Microwave Background
cmbs	cm below surface
CME	coronal mass ejection
CMI	Creation Ministries International [http://creation.com/]
CMS	Center for Meteorite Studies at Arizona State University
CNES	France's National Centre for Space Research
CNRS	French National Center for Scientific Research
Co	Cobalt
CO ₂	carbon dioxide
COBE	Cosmic Background Explorer [http://lambda.gsfc.nasa.gov/product/cobe/]
COCOA	Center of Curvature Optical Assembly
Coe	coesite
COPOUS	Committee on the Peaceful Uses of Outer Space [UN]
CMBR	cosmic microwave background radiation
CME	coronal mass ejection
CNEOS	NASA's Center for NEO Studies [Jet Propulsion Laboratory]
CNRS	National Centre for Scientific Research [France]
COCORP	Consortium for Continental Reflection Profiling
COSPAR	Committee on Space Research
CPO	concentric polygonal outlines
CPU	central processing unit
Cr	Chromium
CRaTER	Cosmic Ray Telescope for the Effects of Radiation (NASA LRO)
CRI	cosmic ray index
CRISM	Compact Reconnaissance Imaging Spectrometer for Mars
CRM	chemical remanence
CRP	Current Research in the Pleistocene [Journal. www.centerfirstamericans.com]
CRS	Creation Research Society
CRSQ	Creation Research Society Quarterly journal.
CSA	Canadian Space Agency
CSA	circular spectral analysis
CSIC	Spanish National Research Council
CSIRO	Commonwealth Scientific and Industrial Research Organisation [Australia's national science agency.]
CSp	carbon spherules
CSS	Catalina Sky Survey

CTBTO	Comprehensive Nuclear-Test-Ban Treaty Organization
CTX	MRO Context Camera [NASA]
CU	University of Colorado – usually referring to the Boulder campus.
CUP	Cambridge University Press
CVD	carbon vapor deposition
CWI	Cosmic Web Imager [Mt. Palomar Observatory]
CXC	Chandra X-ray Center at the Smithsonian Astrophysical Observatory (SAO)
CYBP	carbon-14 years before the present
CYCLOPS	Carbon Cycling Linkages of Permafrost Systems
GYGNSS	Cyclone Global Navigation Satellite System

‘D

DA	Dark Age
DAM	decametric radio emission from Jupiter [up to 40 MHz]
DAN	Dynamic Albedo of Neutrons [Mars Science Laboratory]
DDO	David Dunlap Observatory [Royal Astronomical Society of Canada]
DE	differential equation
D _e	equivalent dose
DEC	declination
DEF	differential energy flux [Electrons]
DEM	Digital Elevation Model
DFG	German Science Foundation
D/H	deuterium to hydrogen ratio
DIM	decimetric radiation from Jupiter
DIXI	Deep Impact Extended Investigation
DL	double layer [plasma]
DLs	double layers - separate cells of plasma in space
DLE	double layer ejecta
DLR	German Aerospace Center [English Translation]
dn	digitization numbers
DNR	Department of Natural Resources
DoA	Department of Antiquities [Hashemite Kingdom of Jordan]
DOC	U.S. Department of Commerce
DOE	U.S. Department of Energy
DOGs	dust-obscured galaxies
DOI	Digital Object Identifier
DOMs	digital optical modules
DPF	dense plasma focus
DPR	Dual-frequency Precipitation Radar [JAXA & NICT]
DPS	Division of Planetary Sciences [of the American Astronomical Society]
DRAGN	Double Radiosource Associated with Galactic Nucleus [Leahy, 1993]
DREAM	Dynamic Response of the Environment at the Moon [NASA Lunar Science Institute’s team]
DREAM2	Dynamic Response of the Environment at Asteroids, the Moon, and moons of Mars
DSCOVER	Deep Space Climate Observatory [NASA spacecraft.]
DSDP	Deep Sea Drilling Project

DSP	Defense Support Program
DSRI	<u>Danish Space Research Institute</u>
DTA	differential thermal analysis
DTM	Digital Terrain Models
DTU	Technical University of Denmark
`E	
EASI	Earth and Space Index [AGU]
EB	Early Bronze
EBA	Early Bronze Age
EBSD	electron backscatter diffraction
ECT	External Collapse Theory
EDEIS	Expert Database on the Earth Impact Structures
EDL	exploding double layer
EDM	electrical discharge machining
EDS	Energy Dispersive X-ray Spectroscopy
EDXA	energy dispersive X-ray analysis
EDXS	energy dispersive X-ray spectroscopy
EELR	extended emission-line region
E-ELT	European Extremely Large Telescope
EFTEM	Energy-filtered TEM [transmission electron microscopy]
EFW	Electric Field and Waves Suite [NASA spacecraft RBSP]
EGU	European Geosciences Union
EG2EU	Essential Guide to the Electric Universe [www.thunderbolts.info]
EHT	Event Horizon Telescope
EHV	extra high-voltage [power grid]
EID	Earth Impact Database [University of New Brunswick, Canada]
EIG	ionized gas cloud(s)
EIH	Extraterrestrial Impact Hypothesis
EIS	Extreme ultraviolet Imaging Spectrometer [Hinode]
eISSN	Electronic International Standard Serial Number
EIT	Extreme ultraviolet Imaging Telescope [on SOHO]
EiU	Earth in Upheaval - Velikovsky
EKB	Edgeworth–Kuiper Belt
ELS	Electron Spectrometer
EM	electromagnetic
EMF	electromotive force
EMFIS	Electric and Magnetic Field Instrument Suite and Integrated Science [University of Iowa]
EMOND	Electrically Modified Newtonian Dynamics
EMP	electron microprobe
ENA	energetic neutral [hydrogen] atoms
ENCODE	Encyclopedia of DNA Elements [Project]
ENSO	El Niño-Southern Oscillation
EO	Eocene-Oligocene
EOCO	Earth orbit crossing objects
EOO	Earth Orbit Oscillation

EPAM	Electron, Proton, and Alpha Monitor (NASA instrument on ACE)
eph	Exploded Planet Hypothesis [probably should be EPH – Van Flandern]
EPOCh	Extrasolar Planet Observations and Characterization
EPOES	Education and Public Outreach for Earth and Space Sciences [NASA]
EPOXI	A combination of the names for the two extended mission components: the extrasolar planet observations, called Extrasolar Planet Observations and Characterization (EPOCh), and the flyby of comet Hartley 2, called the Deep Impact Extended Investigation (DIXI).
EPPNB	Early Pre-pottery Neolithic B [9,500–9,300 years BP]
EPSC	European Planetary Science Conference
EPSL	Earth and Planetary Science Letters
ERBS	Earth Radiation Budget Satellite (NASA mission)
ESA	European Space Agency
ESAC	ESA's European Space Astronomy Centre in Villanueva de la Cañada near Madrid, Spain
ESDIS	NASA Earth Science Data and Information System (Project)
ESEM	Environmental Scanning Electron Microscopy
ESLAB	European Space Research Laboratory
ESO	European Organization for Astronomical Research in the Southern Hemisphere
ESTEC	European Space Research and Technology Centre
ESV [®]	The Holy Bible English Standard Version
ET	Eastern Time
ET	extraterrestrial
ETCSL	Electronic Text Corpus of Sumerian Literature
ETS	Extraterrestrial Sands
EU	Electric Universe
EUNEASO	European NEA Search Observatories
EUV	extreme ultraviolet
eV	electron volt(s)
EVE	EUV Variability Experiment [Solar Dynamics Observatory [NASA]]
exa	prefix for 10 ¹⁸ [Example exa-amp]

`F

FAE	field-aligned electron [energy flux]
FCUL	Faculdade de Ciências da Universidade de Lisboa
Fe	iron
FEG	Field Emission Gun
FESEM	Field Emission Scanning Electron Microscopy
FF	Frasnian-Famennian [mass extinction ~380 and 364 Ma]]
FGST	Fermi Gamma-Ray Space Telescope [formerly GLAST]
FLIERs	fast low-ionization emission regions
FOV	field-of-view
FP7	European Union's Seventh Framework Programme
FRB	Fast Radio Burst
FSF	<u>Free Software Foundation</u>
FTE	flux transfer event
FTIR	Fourier transform infrared [analysis]

FUV	far ultraviolet
`G	
g	gram [a unit of mass]
G	giga or 10^9 or a billion – a prefix of a unit of measure.
Ga	billion(s) (10^9) of years ago
GALEX	Galaxy Evolution Explorer [NASA Spacecraft]
GB	graphitized bones
GBM	GLAST Burst Monitor
GBT	Green Bank Telescope in West Virginia [NSF]
GCA	Geochimica et Cosmochimica Acta [journal]
GCM	general circulation model [simulation]
GCR	Galactic cosmic rays [A high-energy mix of protons, electrons, and atomic nuclei.]
GE	Google Earth
GEODSS	Ground-based Electro-Optical Deep Space Surveillance (MIT LL)
GEOS	NASA's Goddard Earth Observing System Model [NASA]
GES DISC	NASA Goddard Earth Sciences Data and Information Services Center
GEUS	Geological Survey of Denmark and Greenland
GeV	gigaelectronvolts (10^{12} eV)
GFDL	GNU Free Documentation License (GNU FDL or simply GFDL)
GIC	geomagnetically induced currents
GIF	Gatan imaging filter
GISP	Greenland Ice Sheet Project
GISP2	Greenland Ice Sheet Project 2
GKS	God King Scenario (www.gks.uk.com)
GLAST	Gamma-Ray Large Area Space Telescope (Renamed the FGST)
GLE	ground level enhancement [solar particles arriving at Earth]
GLOBE	Global Land One-kilometer Base Elevation [Digital Elevation Model]
GNU	GNU's Not Unix!
GOE	Great Oxidation Event [Earth's geology.]
GPa	gigapascal or 10^9 pascals or a billion pascals – a unit of pressure.
GPR	ground penetrating radar
GRACE	NASA/German Aerospace Center Gravity Recovery and Climate Experiment
GRAIL	Gravity Recovery And Interior Laboratory [NASA satellites.]
GRB	Gamma-ray Bursts or Gamma Ray Bursters
GRIP	Genesis and Rapid Intensification Processes [NASA Project]
GRIP	Greenland Ice Core Project (European drill site.)
GRL	Geophysical Research Letters
GRS	Galaxy Redshift Survey
GSA	Geological Society of America
GSC	Geological Survey of Canada
GSN	Global Seismographic Network
GST	global surface temperature
GSW	GeoScienceWorld [www.geoscienceworld.org]
Gt	gigatons = 10^{12} kg
GVM	Global Volcano Model

GWPF	The Global Warming Policy Foundation [http://thegwpf.org/]
`H	
H	hydrogen [An element.]
H-0	Heinrich event
H-1	Heinrich event
HAADF	high-angle annular dark field [detector]
HAMO	High Altitude Mapping Orbit [NASA Dawn spacecraft.]
HARPS-N	High Accuracy Radial velocity Planet Searcher-North
HAWC	High-resolution Airborne Wideband Camera
Hbk	hard bound or hard back bound
HC	hard copy [of a book or report.]
HCP	hexagonal close packing
HCS	heliospheric current sheet
HEAO 3	High Energy Astronomical Observatory (satellite. No. 3)
HED	Meteorites made up of howardite, eucrite, and diogenite [HED meteorites]
HEND	high-energy neutron detector [NASA Mars Odyssey orbiter.]
H.E.S.S.	High Energy Stereoscopic System
HET	Hobby-Eberly Telescope [University of Texas]
HF	hydrofluoric acid
HI	neutral hydrogen
Hi-C	High Resolution Coronal Imager [NASA]
HIFI	Heterodyne Instrument for the Far-Infrared [spectroscope on the ESA Herschel Space Observatory]
HINARI	Health InterNetwork Access to Research Initiative [www.who.int/hinari/eligibility/en]
HiRISE	High Resolution Imaging Science Experiment [Camera on NASA's Mars Reconnaissance Orbiter(MRO), www.uahirise.org]
HIWG	Holocene Impact Working Group [http://tsun.sssc.ru/hiwg/hiwg.htm]
HKU	The University of Hong Kong
HMI	Helioseismic and Magnetic Imager [Solar Dynamics Observatory (NASA)]
HP3	Heat Flow and Physical Properties Package [On NASA Spacecraft InSight]
HPC	high-performance computational [methods]
HPPD	hypervelocity plasma particle deposition
HQ	high quality
HR	Hertzsprung-Russell Diagram or H-R
H-R	Hertzsprung-Russell Diagram
HRSC	High-Resolution Stereo Camera [ESA Mars Express spacecraft.]
HRTEM	high-resolution transmission electron microscope
HSEs	highly siderophile elements [As it did so, iron loving elements (siderophiles - such as platinum, gold <u>rhennium</u> , <u>osmium</u> , <u>iridium</u> , etc.)]
HSO	Herschel Space Observatory
HST	Hubble Space Telescope
HTML	High-Temperature Materials Laboratory [Oak Ridge National Laboratory]
HUDF	Hubble Ultra Deep Field
Hz	hertz [the SI unit of frequency defined as the number of cycles per second of a periodic phenomenon.]

I

IAGA	International Association of Geomagnetism and Aeronomy
IAHS	International Association of Hydrological Sciences
IAU	International Astronomical Union
IAUCs	International Astronomical Union Circulars [http://www.cbat.eps.harvard.edu/services/IAUC.html]
IAUS	International Astronomical Union Symposium
IAWN	International Asteroid Warning Network
IBEX	Interstellar Boundary Explorer [A NASA spacecraft.]
ICDP	International Continental Drilling Program
ICE	International Comet Explorer [spacecraft]
ICM&MG	Institute of Computational Mathematics and Mathematical Geophysics
ICOPS	International Conference on Plasma Science (IEEE)
ICP-MS	Inductively coupled plasma mass spectrometry (analysis)
ICP-OES	inductively-coupled plasma - optical emission spectrometry
ICRAR	International Centre for Radio Astronomy Research [Curtin University, Perth.]
ICS	iridium coincidence spectrometry
ICSIH	International Commission for Snow and I ce Hydrology
ICSU	International Council for Science
IDPs	interplanetary dust particles
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IEF	interplanetary electric field
IEO	Interior to Earth Orbit
IESSG	Institute of Engineering Surveying and Space Geodesy [The University of Nottingham]
IFSG	Impact Field Studies Group
IFT	Io Flux Tube
IGCP	International Geological Correlation Programme
IGM	Institute of Geology and Mineralogy [Novosibirsk, Russia?]
IGM	Intergalactic Medium
ICPMS	inductively coupled plasma mass spectrometry
IGRF	International Geomagnetic Reference Field
IGU	International Geographic Union
IIRMES	Institute for Integrated Research in Materials, Environments, and Society
IMAGE	Imager for Magnetopause-to-Aurora Global Exploration [NASA]
IMEWS	Infrared Missile Early Warning Satellite
IMF	initial mass function [Galaxies]
IMF	interplanetary magnetic field
INAA	Instrumental Neutron Activation Analysis
INCA	Ion and Neutral Camera (Cassini spacecraft)
INCITE	Innovative and Novel Computational Impact on Theory and Experiment [ORNL program]
INFIS	Institute for Interdisciplinary Science [
ING	Istituto Nazionale di Geofisica
INQUA	International Union for Quaternary Research [www.inqua.tcd.ie]

InSight	Interior Exploration using Seismic Investigations, Geodesy and Heat Transport [Multinational mission to Mars]
INTA	Instituto Nacional de Tecnica Aeroespacial in the southern part of the Canary Islands' Gran Canaria, at Montaña Blanca
INTEGRAL	International Gamma-Ray Astrophysics Laboratory [ESA]
INTIMATE	Integration of Ice-Core, Marine and Terrestrial Records
Io-DAM	modulation of Jupiter's DAM by Io
IOM	Institute of Meteoritics [University of New Mexico (UNM)]
IOP	IOP Publishing
IP	Impact Probability
IPCC	Intergovernmental Panel on Climate Change
iPDF	intermediate Palomar Transient Factory [1.2-m Samuel Oschin Telescope at Palomar Observatory]
IPY	International Polar Year [2007-2008]
Ir	iridium
IR	infrared
IRAC	Infrared Array Camera [NASA's Spitzer Space Telescope]
IRAS	Infrared Astronomical Satellite [flew in 1983]
IRDs	ice-rafted detritus or ice-rafted debris
IRF	Swedish Institute of Space Physics
IR-RF	infrared-radiofluorescence
IRIS	Incorporated Research Institutions for Seismology
IRIS	Interface Region Imaging Spectrograph [NASA spacecraft.]
IRM	isothermal remanent magnetization
IRO	Iowa Robotic Observatory
IRSL	infrared stimulated luminescence
IRTF	NASA's Infrared Telescope Facility on Mauna Kea in Hawaii
ISAAC	International Society for Archaeoastronomy and Astronomy in Culture
ISES	International Space Environment Service [www.ises-spaceweather.org]
ISER	Institute for the Science of Exploration Targets [Southwest Research Institute]
ISF	The International Science Foundation
ISI	Institute for Scientific Information
ISIS	Institute for Interdisciplinary Science
ISM	Interstellar Medium
ISSI	International Space Science Institute
ISS	International Space Station
ISSN	International Standard Serial Number
ITASN	<u>ITASN, ITALian Superbolide Network</u>
ITCZ	Inter Tropical Convergence Zone
ITEG	Independent Tunguska Exploration Group
ITO	Interior to Earth Orbit
IUGG	International Union of Geodesy and Geophysics
IUGS	International Union for Geological Sciences
IUPsyS	International Union of Psychological Science
IVOA	International Virtual Observatory Alliance
IVS	Institute for Venture Science

IXO	intermediate luminosity X-ray [sources]
IYA2009	International Year of Astronomy 2009
`J	
J	Jurassic [A geologic period and system that extends from about 199.6 ± 0.6 Mya (million years ago) to 145.5 ± 4 Mya]
JATIS	Journal of Astronomical Telescopes, Instruments, and Systems
JAXA	Japan Aerospace Exploration Agency
JCMT	James Clerk Maxwell Telescope (on Mauna Kea in Hawaii)
JETS	Journal of the Evangelical Theological Society
JEV	Jupiter-Earth-Venus
JFC	Jupiter-family comets
JHUAPL	Johns Hopkins Applied Physics Laboratory
JOC	Journal of Cosmology
JOC	Journal of Creation
JOT	Journal for the Study of the Old Testament [http://jot.sagepub.com]
JPL	Jet Propulsion Laboratory [CIT]
JSGA	Japanese Spaceguard Association
JUICE	Jupiter Icy Moons Explorer [ESA plans to launch in 2022.]
JWST	James Webb Space Telescope
`K	
k	1,000 [Metric prefix]
K	kelvins [a measurement of temperature in degrees]
ka	kiloannum, or 1,000 calendar years
KamLAND	Kamioka Liquid-scintillator Anti-Neutrino Detector [http://kamland.lbl.gov]
KBO	Kuiper Belt Objects [sometimes referred to as Edgeworth– Kuiper Belt Objects]
KEI	Kinetic Energy Impactor
kg	kilogram [10^3 grams]
KIPAC	Kavli Institute for Particle Astrophysics and Cosmology
KJV	Holy Bible: King James Version
km	kilometer(s)
KMOS	K-Band Multi Object Spectrometer
K-P	Cretaceous-Paleogene [~ 65 Ma]
kpc	kiloparsec [A distance of one thousand parsecs (approximately 3262 light years (ly))]
kph	kilometers per hour
K-Pg	Cretaceous-Paleogene [mass extinction ~ 65 Ma]
kR	kilorayleighs [$1 \text{ kR} = 10^9 \text{ photons cm}^{-2} \text{ s}^{-1}$ into 4π steradians]
KREEP	Shorthand for K, the atomic symbol for potassium, REE for Rare Earth Elements, and P for phosphorous.
K-T	Cretaceous-Tertiary [mass extinction ~ 65 Ma, historic now called the K-Pg or Cretaceous-Paleogene]
ky	thousand(s) of years
Kyr	thousand(s) of years
`L	

LAB-1	Lyman-Alpha Blob 1
LADEE	Lunar Atmosphere and Dust Environment Explorer [NASA]
LA-ICP-MS	Laser Ablation Inductively Coupled Plasma Mass Spectrometry
LaMEVE	Large Magnitude Explosive Eruptions [Open access database.]
LANL	Los Alamos National Laboratory
LAP	Langmuir probe
LARLE	low-aspect-ratio layered ejecta crater
LASCO	Large Angle and Spectrometric Coronagraph [An instrument on SOHO.]
LASP	Laboratory for Atmospheric and Space Physics [University of Colorado at Boulder]
LAT	Large Area Telescope (FGST from Fermi)
LB	Late Bronze [age]
LBA	Late Bronze Age
LC	Library of Congress
LCE	Lyapunov Characteristic Exponents
LCM	light-carrying medium
LCOGT	Las Cumbres Observatory Global Telescope [Network]
LCROSS	Lunar Crater Observation and Sensing Satellite
LD	The average distance from Earth to the Moon is 384,403 km (238,857 miles).]
LDCM	Landsat Data Continuity Mission (NASA)
LDEF	Long Duration Exposure Facility
LDEO	Lamont-Doherty Earth Observatory [Columbia University]
LDG	Libyan desert glass
LDRD	Laboratory-Directed Research and Development [Sandia National Laboratories]
LGM	Last Glacial Maximum [Wikipedia]
LHB	Late Heavy Bombardment
LHC	Large Hadron Collider [CERN]
LIA	Little Ice Age [1600-1750 AD]
LIDAR	Light Detection and Ranging
LINEAR	Lincoln Near-Earth Asteroid Research [www.ll.mit.edu/linear/]
LIS	Laurentide Ice Sheet
LL	Lincoln Laboratory [MIT]
LLT	lunar local time
LMSAL	<u>Lockheed Martin Solar and Astrophysics Laboratory</u>
LNP	Lecture Notes in Physics (Springer)
LOF	lines of force
LOFAR	Low Frequency Array [Centred in the Netherlands.]
LONEOS	Lowell Observatory Near-Earth Object Survey
LORRI	Long Range Reconnaissance Imager [NASA's New Horizon spacecraft]
LPI	Lunar and Planetary Institute
LPL	Lunar and Planetary Laboratory, The University of Arizona
LPSC	Lunar and Planetary Science Conference [Annual.]
LRIS	Low Resolution Imaging Spectrograph
LRO	Lunar Reconnaissance Orbiter
LROC	Lunar Reconnaissance Orbiter Camera [www.lroc.asu.edu]
LSSS	La Sagra Sky Survey

LSST	Large Synoptic Survey Telescope [DOE]
LWA	Long Wavelength Array (Univ. of New Mexico)
ly	light years [is a unit of length, equal to just under 10 trillion kilometres.]
LYDB	Lower Younger Dryas Boundary
`M	
m	meter(s) [A metric unit of length.]
m ²	square meters [A unit of area.]
mm	millimeter(s) [A metric unit of length.]
M	mega, x10 ⁶ or millions [A metric prefix.]
Ma	millions of years before the present
MACHOs	Massive Compact Halo Objects
MAF	Mainwaring Archive Foundation
MAG	magnetometer
MAG	magnitude
MAMA	multi-anode microchannel array
MAPS	Meteoritics and Planetary Science: Journal of the Meteoritics Society
MARCI	Mars Reconnaissance Orbiter's (MRO) weather-monitoring camera, the Mars Color Imager [NASA]
MAVEN	Mars Atmosphere and Volatile Evolution Mission [NASA. 2013 launch scheduled.]
MB	meteoric body
MB	Middle Bronze [age]
MBA	main belt asteroids
MBA	Middle Bronze Age
MBC	main-belt comet(s)
MBDB	Meteoritical Bulletin Database
MEMIN	Multidisciplinary Experimental and Modeling Impact Crater Research Network
MEO	Meteoroid Environment Office [NASA - http://fireballs.ndc.nasa.gov/]
MER	Mars Exploration Rover [NASA robots. There were 2 of them.]
MERRA	Modern Era Retrospective Analysis for Research and Applications (database)
MESSENGER	Mercury Surface, Space Environment, Geochemistry, and Ranging [NASA spacecraft]
MetBull	Meteoritical Bulletin
MET-pIR-IRSL	multi-elevated temperature post-infrared stimulated luminescence
MetSoc	The Meteoritic Society
MEW	Mars-Earth Wars
MG	Middle Ghor [southern Jordan Valley]
MGS	Mars Global Surveyor
MHz	megahertz [10 ⁶ Hertz]
MHD	magnetohydrodynamic or magnetohydrodynamics or magneto-hydrodynamics
MI	matter ingredients
MIMI	magnetospheric imaging instrument (Cassini spacecraft)
MIPT	Moscow Institute of Physics and Technology
MIRI	Mid-Infrared Instrument [JWST]
MIRO	Microwave Instrument for the Rosetta Orbiter
MIT	Massachusetts Institute of Technology

MIT LL	Massachusetts Institute of Technology Lincoln Laboratory
MLE	multiple layer ejecta
MLS	mid-latitude summer
MLTI	Mesosphere and Lower Thermosphere/Ionosphere [A region near 60-180 km in altitude.]
MM	micrometeorites
MMB	Matuyama-Brunhes boundary
MMS	Magnetospheric Multiscale Satellites
MNACG	Monthly Notes of the Alternative Cosmology Group
MNIe	minimum number of individuals for each skeletal element
MNRAS	Monthly Notices of the Royal Astronomical Society
MOC	Mars Orbiter Camera
MODIS	Moderate Resolution Imaging Spectroradiometer (<u>MODIS</u>) [NASA]
Moho	Mohorovicic discontinuity
MOID	minimum orbit intersection distance
MOND	modified Newtonian dynamics
MOR	Mission Operations Review [NASA]
MOSD	Marinoan Oxygen-17 Depletion
MOSFIRE	Multi-Object Spectrometer for Infra-Red Exploration [W. M. Keck Observatory]
MPa	megapascals (1 MPa = N/mm ²) – a unit of pressure.
MPA	microprobe analysis
Mpc	mega parsec
MPC	Minor Planet Center [http://minorplanetcenter.net/]
MPE	Max Planck Institute for Extraterrestrial Physics (Germany)
MPEC	Minor Planet Electronic Circular
MPO	Minor Planet Circulars Orbit Supplement
MPS	Minor Planet Circulars Supplement
MR	melt rock
MRI	Magneto-Rotational Instability
MRO	Mars Reconnaissance Orbiter [NASA]
MRO	Murchison Radioastronomy Observatory (MRO), in remote Western Australia [CSIRO]
MRT	magneto-Rayleigh-Taylor [instabilities]
MS	magnetic susceptibility
MSA	Mineralogical Society of America
MSL	Mars Science Laboratory
MSp	magnetic spherules
MSPs	meteoric smoke particles
MSSL	Mullard Space Science Laboratory (UCL)
MSU	Michigan State University
MT	Masoretic Text
MT	megatons
MUD	multiuser domains
MWA	Murchison Widefield Array [radio telescope - CSIRO]
MWP1a	Meltwater pulse 1a [14,600 years ago]
Mya	millions of years ago

Myr	millions of years before the present [Ma preferred]
`N	
n	nano [prefix meaning a billionth or 10^{-9}]
nm	nanometer [10^{-9} m]
NAA	Neutron Activation Analysis
NADW	North Atlantic Deep Water
NaI	sodium iodide
NAM	National Astronomy Meeting (UK)
NAO	North Atlantic Oscillation [An air pressure system that seesaw between the Azores High and the Icelandic Low.]
NAOJ	National Astronomical Observatory of Japan
NASA	National Aeronautics and Space Administration [United States]
Nat	Nature [journal]
NATO	North Atlantic Treaty Organization
NAU	Northern Arizona University
NCAR	National Center for Atmospheric Research [Boulder Colorado]
NCAS	North Carolina Academy of Science
NCDC	National Climatic Data Center (NOAA)
NCGT	New Concepts in Global Tectonics
NCSU	North Carolina State University
N-D	Neo-Darwinism
ND	nanodiamond
NDs	nanodiamonds
NEA	Near-Earth Asteroid(s)
NEAF	Near Eastern Archaeology Foundation
NEAS	Near East Archaeological Society
NEAT	Near-Earth Asteroid Tracking [Telescope]
NEAT	Near-Earth Asteroid Trailblazer [spacecraft]
NEB	New English Bible
NEEM	North EEMian [ice core in Greenland]
NEO	Near-Earth Object(s)
NEOCam	Near-Earth Objects Camera
NEOCP	NEO Confirmation Page [http://minorplanetcenter.org/iau/NEO/ToConfirm.html]
NEODyS	Near-Earth Objects Dynamic Site [Chesley and Milani (1999)]
NEOSSat	NEO [Near-Earth Object] Surveillance Satellite [CSA]
NEOWISE	Near-Earth Object Wide-field Infrared Survey Explorer [An enhancement of the WISE, NASA mission that launched in December 2009.]
NExT	New Exploration of Tempel [spacecraft] Stardust NExT
NGC	National Geographic Channel
NGC	New General Catalogue [Astronomy]
NGDC	National Geophysical Data Center [www.ngdc.noaa.gov]
NGI	Nottingham Geospatial Institute
NGRIP	North Greenland Icecore Project [www.glaciology.gfy.ku.dk/ngrip/]
NGS	National Geographic Society
NHM	Natural History Museum [London]
Ni	nickel

NICMOS	Near Infrared Camera and Multi-Object Spectrometer (NICMOS) [Hubble Space Telescope]
NICT	National Institute of Information and Communications Technology [Japan]
NIR	Near Infrared [Near-IR]
NISP	number of identified specimens
NIV	New International Bible
NIV84	Holy Bible: New International Version Copyright 1984.
NIV11	Holy Bible: New International Version Copyright 2011.
NIVAC	New International Version Application Commentary [Zondervan]
NKJV	Holy Bible: New King James Version
NLCs	noctilucent clouds
NLSI	NASA Lunar Science Institute [in Moffett Field, CA] Renamed the Solar System Exploration Research Virtual Institute (SSERVI)
NMR	nuclear magnetic resonance
NMT	New Mexico Tech. [New Mexico Institute of Mining and Technology]
NOAA	National Oceanic and Atmospheric Administration [US DOC]
NOAO	National Optical Astronomy Observatory
NomCom	Nomenclature Committee (MetSoc)
NOx	Nitrogen oxides
NPA	Natural Philosophy Alliance
NPD	north polar deposit [planet Mars]
NRA	NASA Research Announcement
NRAO	National Radio Astronomy Observatory
NRC	National Research Council
NRES	Network of Robotic Echelle Spectrograph
NRL	Naval Research Laboratory [US]
NRM	Natural Remnant Magnetization
NSERC	Natural Science and Engineering Research Council [Canada]
NSF	National Science Foundation
NSI	National Space Institute [Denmark]
NSIDC	U.S. National Snow and Ice Data Center
NSO	National Solar Observatory
NST	New Solar Telescope [Big Bear Solar Observatory in Big Bear City, CA, USA]
NT	New Testament [Holy Bible]
NuSTAR	Nuclear Spectroscopic Telescope Array [NASA spacecraft]
NWA	Northwest Africa
`O	
O	oxygen [An element.]
OCC	Operations Control Center [Chandra]
OCO-2	Orbiting Carbon Observatory-2 [NASA spacecraft.]
ODI	One Degree Imager [WIYN 3.5-meter telescope on Kitt Peak National Observatory]
ODP	Ocean Drilling Project
OECD	Organisation for Economic Co-operation and Development
OIR	Optical/Infrared
OIS	

OPAG	Outer Planets Assessment Group
ORNL	Oak Ridge National Laboratory
Os	Osmium
OSIRIS	Rosetta's Onboard Scientific Imaging System
OSIRIS-REx	Origins Spectral Interpretation, Resource Identification Security-Regolith Explorer [mission, NASA mission planned to launch in 2016]
OSL	optically stimulated luminescence
OT	Old Testament [Holy Bible]

`P

P/x	Periodic Comet x
PACS	Palomar Asteroid and Comet Survey
PAH(S)	polycyclic aromatic hydrocarbon(s) [molecules] or PAHs
PaleoDB	Paleobiology Database
PAMELA	[European satellite] Payload for Antimatter Matter Exploration and Light-nuclei Astrophysics [(PAMELA)]
Pan-STARRS	Panoramic Survey Telescope and Rapid Response System
PARCA	Program for Arctic Regional Climate Assessment
PASSC	Planetary and Space Science Centre [University of New Brunswick, Canada]
PATM	Paleocene-Eocene thermal maximum [A period of rapid and dramatic warming.]
PBS	Public Broadcasting System
PCAS	Planetary Crossing Asteroid Survey
PCR	polymerase chain reaction
PDC	Planetary Defense Conference
PDCO	Planetary Defense Coordination Office [NASA]
PDFs	<u>planar deformation features</u>
PDF	Portable Data File
PEA	Program Element Appendix [NASA]
PEARL	Polar Environment Atmospheric Research Laboratory [Ellesmere Island]
PEFT	Previously Energized Flux Tube
PETM	Paleocene-Eocene Thermal Maximum [National Geographic, Oct 2011, p. 90-ff]
PF	planar fractures [Geology]
PGAA	Prompt Gamma-ray Activation Analysis
PGEs	platinum group elements [such as iridium, platinum, palladium and osmium]
PGG	Planetary Geology and Geophysics (NASA program)
PGT	Princeton Gamma Tech
PHA	potentially hazardous asteroid
PHAs	potentially hazardous asteroids
PHC	Potentially Hazardous Comet
PHO	<u>Potentially hazardous objects</u>
PI	Principal Investigator
pi	3.14...
PIC	particle-in-cell [computer simulation]
PIC	polygonal impact craters [Aittola et al. (2007)]
pIR-IRSL	post-infrared infrared stimulated luminescence
pixels	picture elements
PKT	Procellarum KREEP Terrane [Lunar]

PLS	Plasma Science Experiment (NASA Voyager spacecraft)
pmc	percent modern carbon
PMs	planar microstructure
PNAS	Proceedings of the National Academy of Sciences of the United States of America. [Proc. Nat. Acad. Sci. USA]
POD	Picture of the Day [Thunderbolts Project]
ppb	parts per billion
PPL	patterned peat lands [Minnesota]
ppm	parts per million
PPNA	Pre-pottery Neolithic A
PRL	Physical Research Laboratory [India]
PRL	Physical Review Letters
propyds	PROto-PLANetarY Disk
PS	Palermo Scale
PSRD	Planetary Science Research Discoveries [www.psr.d.hawaii.edu]
P-T	Permian-Triassic [mass extinction ~251 Ma]
PTF	Palomar Transient Factory
P-Tr	Permian-Triassic [mass extinction ~251 Ma]
PTRM	partial thermal remanence
PUP	Princeton University Press
PVB	Pantelleria Vecchia Bank [Mediterranean Basin]
`Q	
QARG	Quaternary and Anthropocene Research Group [Univ. of Cincinnati]
QJRAS	Quarterly Journal of the Royal Astronomical Society
QPO	Quasi-periodic Oscillation
QSO	Quasi-Stellar Object or Quasar
Quasar	quasi-stellar radio source
Qz	quartz [A mineral.]
`R	
RA	right ascension
RAIDS	Remote Atmospheric and Ionospheric Detection System [experiment]
RAL	Rutherford Appleton Laboratory
RAS	Russian Academy of Sciences
RATS	Desert RATS – Desert Research and Technology Studies (NASA)
RBSP	Radiation Belt Storm Probes [NASA. Old name, now Van Allen satellites.]
RHCP	right-hand circularly polarized
RCYBP	Radio Carbon Years Before the Present [http://archaeology.about.com/od/dating/qt/rcypb.htm] Common Abbreviations for RCYBP: C14 ka BP, 14C ka BP, ¹⁴ C ka BP, radiocarbon years, c14 years before the present, rcbp, carbon-14 years before the present, CYBP
Re	Rhenium
REE	Rare Earth Elements

REPT	Relativistic Electron Proton Telescope [On NASA RBSP spacecraft, renamed the Van Allen Probes mission.]
RHESSI	Ramaty High Energy Solar Spectroscopic Imager [satellite]
RIM	Russian-Italian Mission [research program]
RMCC	Royal Military College of Canada
RNM	radiochemical neutron activation analysis
RPI	relative palaeo intensity [of magnetism as found in sediments]
RPIF	Regional and Planetary Image Facility
RS	Raman spectroscopy
RSSD	Research and Scientific Support Department [European Space Agency – ESA]
RTI	Reflectance Transformation Imaging
RWC	Regional Warning Centres [Solar]
rybp	radiocarbon years before the present
RYBP	radiocarbon years before the present

`S

S	chemical element sulfur
SADPs	selected area electron diffraction patterns
SAGE	SAIC's Adaptive Grid Eulerian
SAIC	Science Applications International Corporation
SALMON-n	Stand Alone Missions of Opportunity Notice Number n [NASA]
SALT	Southern African Large Telescope
SAMPEX	Solar, Anomalous and Magnetospheric Particle Explorer
SAO	Smithsonian Astrophysical Observatory
SAR	stable auroral red [arcs]
SAS	Solar Aspect System [RHESSI's]
SC	shatter cone
SDO	Solar Dynamics Observatory [NASA]
SDOs	scattered disk objects
SDSS	Sloan Digital Sky Survey (map)
SEAC	(Société Européenne pour l'Astronomie en Culture) or European Society for Astronomy in Culture) [www.archeoastronomy.org]
SEAS	School of Engineering and Applied Sciences [Harvard University]
SECCHI	Sun-Earth Connection Coronal and Heliospheric Investigation suite onboard NASA's twin Solar Terrestrial Relations Observatory (STEREO)
SEIS	Suspected Earth Impact Sites (http://impacts.rajmon.cz/)
SELENE	Selenological and Engineering Explorer (JAXA moon orbiting spacecraft also known as <u>Kaguya</u> ,)
SEM	scanning electron microscopy
SEP	solar energetic particle
SEPM	Society for Sedimentary Geology
SETI	Search for Extraterrestrial Intelligence
SEU	single-event upset
SFB	Science & Faith Bibliography
SFDs	size-frequency distributions
SFI	Santa Fe Institute
SFOV	south field-of-view

SGR	Soft Gamma Repeaters [Astronomy]
SHRIMP	sensitive high resolution ion microprobe [ASI Version IIe]
Si	silicon [A nonmetallic element]
SI	International System of Units
SIDC	Solar Influences Data Analysis Center [http://www.sidc.be/]
SIM	solar irradiance monitor [NASA SORCE satellite]
SIM	solar inertial motion
SiO ₂	silicon dioxide
SIS	Society for Interdisciplinary Studies
SIU	Southern Illinois University
SJ	Society of Jesus [Jesuits] sometimes S.J.
SKA	Square Kilometre Array
SKR	Saturn kilometric radiation
S-L 9	Comet Shoemaker-Levy 9
SLAC	Stanford Linear Accelerator Center
SLOs	[siliceous] scoria-like objects
SMA	Submillimeter Array
SMBH	Super Massive Black Hole
SMD	Science Mission Directorate [NASA]
SMEI	Solar Mass Ejection Imager [USAF]
SMILES	Superconducting Submillimeter-Wave Limb-Emission Sounder
SMOW	standard mean ocean water
SMPAG	Space Mission Planning and Advisory Group [UN, pronounced 'same page']
SOAR	Southern Astrophysical Research [telescope]
SOFIA	Stratospheric Observatory for Infrared Astronomy [NASA]
SN	supernova
SNC	SNC-meteorites take their name from Shergotty, Nakhla and Chassigny
SNO	Sudbury Neutrino Observatory
SNR	supernova remnant
SOD	Second Order Draft
SOFIA	Stratospheric Observatory for Infrared Astronomy [airborne observatory]
SOHO	Solar and Heliospheric Observatory [A spacecraft.]
SOLTICE	Solar Stellar Irradiance Comparison Experiment
SONEAR	Southern Observatory for Near Earth Asteroids Research [Near Oliveira, Brazil]
SPH	smooth particle hydrodynamics – [simulations]
STICESPCZ	South Pacific Convergence Zone
SPD	Solar Physics Division [American Astronomical Society]
SPD	south polar deposit [on the planet Mars]
SPE	solar proton event
SPECT	Single Photon Emission Computed Tomography
SRL	Seismological Research Letters
SRM	shock-remnant magnetization [strong shock remanence]
SRTM	Shuttle Radar Topography Mission
SSA	Space Situational Awareness Office [European Space Agency]
SSB	Solar System Barycentre
SSB	Solar System Bibliography

SSC	University of New Hampshire's Space Science Center
SSD	Space Science Division [Naval Research Laboratory]
SSSERVI	Solar System Exploration Research Virtual Institute (NASA) [formerly the NASA Lunar Science Institute (NLSI)] http://sservi.nasa.gov
SSI	solar spectral irradiance
SSN	Sunspot Number
SSSB	Small Solar System Body
SSSI	Space Sciences Series of ISSI [International Space Science Institute]
Stardust-NExT	Stardust-New Exploration of Tempel, [spacecraft]
STEM	scanning transmission electron microscope
STEREO	Solar Terrestrial Relations Observatory [NASA]
STEREO-A	Solar Terrestrial Relations Observatory-Ahead [NASA]
STFC	Science and Technology Facilities Council (United Kingdom)
STIS	Space Telescope Imaging Spectrograph [Hubble Space Telescope]
STP	Solar Terrestrial Probes [NASA program]
STScI	Space Telescope Science Institute
Stv	stishovite
SUERC	Scottish Universities Environmental Research Centre [in East Kilbride]
Sv	Ocean currents are measured in Sverdrup (Sv), where 1 Sv is equivalent to a volume flow rate of 1,000,000 m ³ (35,000,000 cu ft) per second or 1 Sv = 10 ⁶ m ³ s ⁻¹ .
SWE	Solar Wind Experiment flying aboard the WIND satellite
SWEPAM	Solar Wind Electron Proton Alpha Monitor flying aboard NASA's Advanced Composition Explorer (ACE)
SWPC	Space Weather Prediction Center [NOAA - based in Boulder, Colorado, USA].
SwRI	Southwest Research Institute
Sy2	Seyfert 2 galaxy
T	
T	Triassic
TA	Transportable Array [EarthScope's]
TAU	Tel Aviv University
TCB	Tunguska Cosmic Body
TCRM	thermochemical remanence
TCTE	Total solar irradiance Calibration Transfer Experiment [NASA]
TDE	tidal disruption event(s)
TDG	"tidal" dwarf galaxy
TeH	Tall el-Hammam
TeHEP	Tall el-Hammam Excavation Project [www.tallelhammam.com]
TEM	transmission electron microscopy
TGFs	Terrestrial Gamma-ray Flashes
THC	thermohaline circulation
THEMIS	Thermal Emission Imaging System [Odyssey spacecraft.]
THEMIS	Time History of Events and Macroscale Interactions during Substorms [NASA. http://www.nasa.gov/mission_pages/themis/mission/index.html]
TIFR	Tata Institute of Fundamental Research [Mumbai, India]
TIMED	Thermosphere Ionosphere Mesosphere Energetics and Dynamics spacecraft

T-J	Triassic-Jurassic boundary [201.4 Ma]
TIMS	Thermal Ionization Mass Spectrometer
TIO	TMT [Thirty Meter Telescope] International Observatory
TLEs	transient luminous events
TMG	Transjordan (eastern side of the) Middle Ghor
TMT	Thirty Meter Telescope
TNC	The Nature Conservancy
TNO	trans-Neptunian object(s)
TNR	Times New Roman [font]
TNT	trinitrotoluene [A high explosive.]
TOC	Table of Contents
TP	Target Plane
TPF	Terrestrial Planet Finder (science package on Kepler mission.)
TPOD	Thunderbolts Picture of the Day (www.thunderbolts.info)
TRACE	Transition Region and Coronal Explorer [A spacecraft.]
Tr-J	Triassic-Jurassic [mass extinction]
TRM	thermo-remnant magnetization
TRMM	Tropical Rainfall Measuring Mission [satellite]
TS	Torino Scale
TSI	total solar irradiance or sometimes total solar irradiation
TSU	Trinity Southwest University
TT-OSL	thermally transferred optically simulated luminescence
TWINS	Two Wide-Angle Imaging Neutral-Atom Spectrometers [Two NASA spacecraft.]
U	
UAP	Unidentified Atmospheric Phenomena
UAT	Unified Astronomy Thesaurus [http://astrothesaurus.org/thesaurus/]
UCL	University College London
UCLA	University of California Los Angeles
UCLan	University of Central Lancashire
UCM	Complutense University of Madrid (Spain)
UCM	unusual carbonaceous matter
UCSB	University of California Santa Barbara
UdeM	University of Montreal
UFO	Unidentified Flying Object
UFRO	University of Florida Radio Observatory (<u>UFRO</u>)
UH	Usselo Horizon
UK	United Kingdom
ULA	United Launch Alliance
ULIRGs	Ultra Luminous Infra Red Galaxies
ULX	Ultra Luminous X-ray [sources]
UMMs	unmelted micrometeorites
UN	United Nations
UNCOPUOS	UN Committee on the Peaceful Uses of Outer Space [UN]
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNM	University of New Mexico
UNSW	<u>University of New South Wales</u>

UP	University Press
UP	Utopia Planitia [location on Mars.]
URL	Universal Resource Locator
US	United States [of America]
USDA	United States Department of Agriculture
USGS	United States Geological Survey
USRA	Universities Space Research Association at Arecibo Observatory
UTIG	Institute for Geophysics at The University of Texas at Austin
UV	ultraviolet radiation or sometimes ultra violet
UV-B	ultraviolet-B radiation (UV-B, 280-315 nm)
UVIS	Ultraviolet Imaging Spectrometer [instrument aboard the NASA/ESA Cassini-Huygens spacecraft]
UVOT	Ultraviolet/Optical Telescope [Swift spacecraft.]
ˆV	
VAs	Virtual Asteroids
VC	vitreous carbon
VEI	Volcanic Explosivity Index
VGI	vesicular glass
VGM	Virtual Geology Museum
VHC	Virtual Heritage Center [University of California Merced]
VI	Virtual Impactor
VIR	visual and infrared [wavelengths]
VIRTIS	Visible and Infrared Thermal Imaging Spectrometer [Rosetta spacecraft.]
VISTA	Visible and Infrared Survey Telescope for Astronomy [European Southern Observatory]
VLA	Very Large Array [One operated by the Univ. of New Mexico]
VLT	Very Large Telescope [European]
VLT	Victoria Land Traverse [U.S. led in Antarctica in 1959-1960]
VOGRIPA	Volcanic Global Risk Identification and Analysis Project (A database.)
VOIR	Venus Orbiting Imaging Radar
VRM	Venus Radar Mapper
VSEGEI	All Russia Geological Institute [St. Petersburg]
VSL	violet stimulated luminescence
VSMG	Volcanic and Magmatic Studies Group [UK]
VSMOW	Vienna Standard Mean Ocean Water
V-SMOW	Vienna Standard Mean Ocean Water
ˆW	
W	watts
WA	Western Australia
WAC	wide angle camera
WAIS	West Antarctic Ice Sheet
WDC	World Data Center
WDM	warm dark matter
WHIM	warm-hot intergalactic medium
WiC	Worlds in Collision - I. Velikovsky

WIHG	Wadia Institute of Himalayan Geology
WIS	Weizmann Institute of Science
WISE	On February 1, 2011 NASA's Wide-field Infrared Survey Explorer was shut down and a new mission began in September 2013 known as NEOWISE.
WISEASS	WIS Experimental Astrophysics Spectroscopy System
WISSARD	Whillans Ice Stream Subglacial Access Research Drilling [project in Antarctica]
WIYN	Telescope at Kitt Peak National Observatory. The WIYN Consortium, which consists of the University of Wisconsin, Indiana University, Yale University, and the National Optical Astronomy Observatory (NOAO).
WMAP	<u>Wilkinson Microwave Anisotropy Probe</u> [http://map.gsfc.nasa.gov/index.html]
WMD	wiggle match dating [Radiocarbon dating]
WPI	Worcester Polytechnic Institute
WSD	World Science Database [www.worldsci.org]
WWLLN	World Wide Lightning Location Network
WWSD	World-Wide Science Database
`X	
XPS	[soft X-ray] Ultraviolet Photometer System
XRD	X-ray diffraction
XRF	x-ray fluorescence
XXM	X-ray Multi Mirror [ESA satellite XMM-Newton]
`Y	
YD	Younger Dryas
YDB	Younger Dryas Boundary
YDC	Younger Dryas chronozone
YDIB	Younger Dryas Impact Boundary
YDIH	Younger Dryas Impact Hypothesis
YORP	Effect named after four scientists who investigated the effect of sunlight on small solar system bodies: Ivan Yarkovsky, John O'Keefe, V. Radzievskii and Stephen Paddack.
YBP	years before the present
`Z	
Zr	zirconium [An element.]
ZrSiO ₄	zircon [A mineral.]
ZTF	Zwicky Transient Facility

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