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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 <u>http://phys.org/print291396902.html</u> ... 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 <u>www.dailygalaxy.com/my_weblog/2013/06/nasa-1000-near-earth-objects-large...</u> ... 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 <u>ADS Citation lists</u>.

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 <u>nuclear weapons</u> 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: <u>http://phys.org/news/2014-04-astronauts-reveal-sobering-asteroid-impacts.html#jCp</u>

"Impacts, extinctions and climate in the search for life elsewhere," Dec 16, 2014 by Jonti Horner, Belinda Nicholson and Brad Carter, The Conversation

http://phys.org/news/2014-12-impacts-extinctions-climatelife.html?utm_source=nwletter&utm_medium=email&utm_content=ctgritem&utm_campaign=daily-nwletter

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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Abstract: Research in the field of neo-catastrophism and impact cratering has quickened its pace since the early 1980s. An increasing number of astronomers have suggested that a series of cosmic disasters punctuated the earth in prehistoric times. Scholars such as Victor Clube, Bill Napier, Mark Bailey, Sir Fred Hoyle and Duncan Steel claim that a more 'active' sky might have caused major cultural changes of Bronze Age civilisations, belief systems and religious rituals. Can the astronomical evidence brought forward by these astronomers be substantiated by the historical, archaeological and climatological records? End

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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 (<u>first proposed on Thunderbolts.info back in 2005</u>) is made ironic by the latest developments in <u>self-cleaning solar panel</u> technologies – intended for use in future Mars missions. [Online:] <u>http://www.thunderbolts.info/wp/2012/12/09/david-talbott-on-mars-mysteries-pt-one/</u>

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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	Comments
	(URL)	
Global Disturbances as a Result of	www.gks.uk.com/geoev/	Gary Gilligan
Cosmic Chaos		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	• Last updated in 17 July 2010
		• Looks very interesting.
		Philip Burns
Catastrophist Manifesto	www.catastrophist.org/home/cat	Hans Kloosterman
	astrophist-manifesto-2007/	
The International Society for	http://www1.archaeoastronomy.	• The tenth "Oxford" International
Archaeoastronomy and Astronomy	org/	Symposium on
in Culture		Archaeoastronomy will take
		place in Cape Town, South
Frank war an Caraintee from Antonio and		Africa, on July $12-18$, 2014.
European Society for Astronomy	www.arcneoastronomy.org/publi	• Dr. Michael A. Rappengluck
in Culture	<u>cations/index.ntml</u>	MA President 2011.
		• Fifteen (15) conferences have
Cosmonier	http://sites.google.com/site/cosm	This site is dedicated to a pay
Cosmoplei	opier/	approach on the solar system
		approach on the solar system
		naleontology 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	www.adsabs.harvard.edu	Publications
System		Citation listings
Ernston Claudin Impact Structures	www.impact-structures.com	• Research on impact geology,
– Meteorite Craters	_	geophysics, petrology, and
		impact cratering
		• Lots of information here.

Name	Universal Resource Locator	Comments
	(URL)	
Catastrophism! - Man, Myth and	www.catastrophism.com	 450 publications
Mayhem in Ancient History and	Includes: archaeology,	• 5,000 images
the Sciences	astronomy, biology,	• 6,000 documents
	catastrophism, chemistry,	• Costs about \$175.00
	cosmology, geology, geophysics,	• Ian Tresman's site. Lots to
	history, linguistics, mythology,	interest all and a high spec CD to
	palaeontology, physics,	boot (also available from the SIS
	psychology, religion, and	Book Service)
In ditate for Internitionin linear		
Science (INEIS)	www.iniis.org	
Impact Farth	www.purdue.edu/ImpactFarth	Pierazzo et al. (2012) and Collins et
impact Latti	www.purdue.edu/mpactLarti	al (2012)
Cosmochemistry Illustrated	www.higp.hawaii.edu/cosmoeye	Space science slide presentations.
	/	r i i i i i i i i i i i i i i i i i i i
	See also <u>www.psrd.hawaii.edu</u>	
Global Flood	www.globalflood.org	Dr. John R. Baumgartner model
		catastrophic plate tectonics
Earth Impact Database (EID)	www.unb.ca/passc/ImpactDatab	Extensive listing of related links.
-	ase	_
Creationism	www.creationsim.org	Paul Abramson, Webmaster
		Noah's flood.
Geological Society of America,	www.geosociety.org	
Inc.		
Maverick Science	www.maverickscience.com	
Taria Cashica Callage Virtual	<u>http://skywalker.cochise.edu/wei</u>	Roger Weller, Geology Instructor
Topic, Cochise College, Virtual	<u>lerr/meteorite-impact-ref/metref-</u>	Last updated 2007.
Metaoritas	topic-list.num	
Bob Kobres Web Page	http://abob.libs.uga.edu/bobk/cb	Carolina Bays plus
Dob Robies web Lage	avmenu html	Caronna Days plus.
George Howard's website	http://www.georgehoward.net/cb	Maintained by George Howard.
	avs.htm	Carolina Bays
Information about asteroids and	http://www.ipl.nasa.gov/asteroid	
near-Earth objects from NASA	watch	
JPL.		
Information about asteroid radar	http://echo.jpl.nasa.gov/	
research.		
The Meteoritical Society	www.meteoriticalsociety.org	
Near-Earth Objects Program	http://neo.jpl.nasa.gov/neo/	
Planetary Science Research	www.psrd.hawaii.edu	Cosmochemistry web journal of
Discoveries (PSRD)		meteorites, asteroids, planets, moons,
		and other materials in our Solar
Diama Ilainana		System.
Plasma Universe	<u>nup://plasmauniverse.info/</u>	Dr. Anthony L. Peratt

Name	Universal Resource Locator (URL)	Comments
Plot of proper eccentricity versus	http://hamilton.dm.unipi.it/astdy	Proper elements computed by A.
proper semi-major axis for the	s/	Milani and Z. Knezevic. Cellino and
main belt asteroid population		Dell'Oro (2009).
NASA JPL NEO Program Close	http://neo.jpl.nasa.gov/ca/	
Approach Tables for the period		
1900 – 2200 A.D.		
NASA's NEO Statistics	http://neo.jpl.nasa.gov/stats/	Pierazzo et al. (2012)
MIT Lincoln Laboratory	http://www.ll.mit.edu/mission/sp	
Lincoln Near Earth Asteroid	ace/linear/	
Research (LINEAR)		
Tunguska Home Page	http://www-	University of Bologna (Italy),
	th.bo.infn.it/tunguska/index.html	Department of Physics
Mythopedia: Introducing Plasma	http://mythopedia.info/	Managed by: Marinus Anthony van
Mythology		der Sluijs
Crater Hunter Blog	https://craterhunter.wordpress.co	Excellent material.
	m/	
Near Earth Asteroids (NEAs) - A	www.iau.org/public/nea	
Chronology of Milestones		
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
Electric Meteors Becoming Accepted Science Space News	Thunderbolts Project https://www.thunderb olts.info	https://www.youtube.com/watch?v=T9QfpbyjCaE &feature=youtu.be
Asteroid Strike near Chelyabinsk in Russia Celestial Crisis and the	DVD of a NOVA program. Toronto Canada	http://www.pbs.org/wgbh/nova/earth/meteor- strike.html http://www.planetamnesia.com/toronto-conference/
Human Record Large Meteorite Impacts	16-19 May 2016 Sudbury, Canada	http://www.hou.usra.edu/meetings/sudbury2013/
METSOC 2013 Edmonton	OS-08 August 2013 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/aicaii/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.ciuhct.com/seac2011/
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.

Title	Location, Date(s), Sponsor(s)	Comments
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).
Seminar of Catastrophism and Ancient History	Catastrophism and Ancient History	www.catastrophistic.com/cdroin/pdos/journals/cat- anc/proc1/index.htm The Full Text of this article/publication can be found either: On the <u>Catastrophism! CD-Rom</u> On this web site at <u>Catastrophism! Online</u>
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 <u>Catastrophism! CD-Rom</u> On this web site at <u>Catastrophism! Online</u>
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 <u>Catastrophism! CD-Rom</u> On this web site at <u>Catastrophism! Online</u>
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.
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

Title	Location, Date(s), Sponsor(s)	Comments
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/progra mAbstracts/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.
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.

Title	Location, Date(s), Sponsor(s)	Comments
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 <u>www.knowledge.co.uk/sis/</u>
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

 $\label{eq:cosmos.ru} \end{tabular} \end{tabular} $$ [7] < \underline{nea2009.cosmos.ru} < \underline{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 Pa	pers in Chronology & Catastrophism Work	shop (C&CW)
U		

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	2010:2, p. 26	
	Pipes		
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	Comments
	No. of	
	Citations	
Allan & Delair (1997)	1,639	
Bevan (1998)	350	
Burns, Philip R. (1996) "Annotated Bibliography for	150	Note 2
Catastrophism: Overview"		
F. Claudin, K. Ernstson: Publications on meteorite impact	100	2013
topics. http://www.impact-		
structures.com/references/publications-f-claudin-k-ernstson/		
Firestone et al. (2006)	398	
Hanslmeier, Arnold (2009A)	267	
Huggett, Richard John (1997)	700	
NASA - Asteroid and Comet Impact Hazard Bibliography (1992-	TBD	Note 1.
2000) at http://www2.fiu.edu/~longoria/gly3034-		
sp/gly3034sp/AsteroidCometImpactHazards.pdf		
Van Flandern (1998)	250+	Revised.

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

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

7.0 Relevant Periodicals

Journal Title	Acrony m	ISSN	Notes
Acta Geophysics and Geodetica			
Hungarica			
Aeon: A Journal of Myth,			www.catastrophism.com
Science, and Ancient History			1
Archaeoastronomy: the journal			http://terpconnect.umd.edu/~tlaloc/ar
of Astronomy in Culture			chastro/
Archaeoastronomy &			http://terpconnect.umd.edu/~tlaloc/ar
Ethnoastronomy Newsletter			chastro/
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	C&AH	0733-	www.catastrophism.com Note 1.
History: A Journal of		8058	1
Interdisciplinary Study			
Chronology and Catastrophism	C&CR	0953-	Society for Interdisciplinary Studies
Review: The Journal of The		0053	www.sis-group.org.uk
Society for Interdisciplinary			
Studies			
Chronology & Catastrophism	C&CW	0951-	Society for Interdisciplinary Studies
Workshop		5984	www.sis-group.org.uk
Creation Research Society	CRSQ		
Quarterly			
Earth, Moon, and Planets: An		P 0167-	
International Journal of Solar		9295	
System Science.		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

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

Solar Systems Studies

Icarus: International Journal of

0019-

1035

Journal Title	Acrony	ISSN	Notes
IEEE Transactions on Diagnos	m		
Science			
Impact Studies		1612-	Ten in the series as of 02 Nov 2010.
-		8338	Springer.
International Journal of			
Astrobiology			
International Journal of Impact			
Engineering			
Journal for the Study of the Old	JOT		http://jot.sagepub.com
Testament			http://intl-jot.sagepub.com
Journal of Astronomical History			
& Heritage			
Journal of Creation			http://creation.com/journal-of-
	IDC	0140	creation-archive-index
Journal of Geophysical Research	JRG	0148-	
Journal of Coordinate Descourse	ICD D	0227	
- Planets	JGK-P		
Journal of Geomagnetism and		0022-	
Geoelectricity		1392	
Journal of Glaciology			
Journal of Sedimentary Research	JSR		
Kronos			Copies available at
			www.catastrophism.com
Marine Micropaleontology			
Meteoritics and Planetary	MAPS	1086-	www.meteoriticalsociety.org
Science: Journal of the		9379	Online ISSN: 1945-5100
Meteoritics Society			
Monthly Notices of the Royal	MNRAS	0035-	Mon. Not. R. Astron. Soc.
Astronomical Society	NG	8/11	
National Geographic	NG		Monthly magazine. NGS
Nature			
Nature Geoscience			
New Scientist			SEDM
Palalos Dangag Immonuel Velikovely			SEPM
Pensee - Immanuel Venkovsky			www.catastropmsm.com
Proceedings of the National	ΡΝΔς		
A cademy of Sciences of the	INAS		
United States of America (Proc			
Nat. Acad. Sci. USA1			
Reviews of Geophysics			
Science	Sci.		

Journal Title	Acrony	ISSN	Notes
	m		
Scientific American			
Tectonophysics			Elsevier B.V.
The Holocene		0959-	Print ISSN: 0959-6836
		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

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8.0 Related Organizations

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

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

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 planetmodifying 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.

Name	URL/Source/Discussion	Comments
SAO/NASA	http://www.adsabs.harvard.edu/	24 March 2012
Astrophysics Data	The SAO/NASA Astrophysics Data System (ADS) is	
System	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	
	highly customizable query forms, and full-text scans	
	of much of the astronomical literature which can be	
	browsed or searched 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.	
The Full Catalogue	http://www.sscc.ru/impact/index1.html	1,017 records
of the Earth's Impact	Russian Academy of Sciences	
Structures	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.sscc.ru/impact/. (in Russian and English)	
Impact Earth	www.purdue.edu/impactearth	Purdue Univ. &
		Imperial College,
		London [January
		2017]

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

Impact Database	http://impacts.rajmon.cz/ Dr. David Raimon	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	Last updated on 07 August 2010.
	Fredericion, New Drunswick, Canada	

[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:] <u>http://www.thunderbolts.info/forum/phpBB3/viewtopic.php?f=4&t=994</u> [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 λCDM Lambda Cold Dark Matter theory `A AAA Aten, Apollo, Amor [Near-Earth Asteroid Classes] American Association for the Advancement of Science AAAS AAS American Astronomical Society Antiquarian Booksellers Association of America ABAA Associates for Biblical Research [www.BibleArchaeology.org] ABR ABS American Bible Society Antarctic Circumpolar Current Levels by Altimetry and Island Measurements ACCLAIM Advanced Composition Explorer [NASA spacecraft.] ACE Alternative Cosmology Group [http://cosmologystatement.org] ACG Asteroids, Comets, Meteors [Meeting sponsored by LPI and the Meteoritical ACM 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 Advanced Dark Energy Physics Telescope ADEPT 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 American Geological Institute AGI AGILE Astrorivelatore Gamma ad Immagini ultra LEggero AGN active galactic nucleus AGU American Geophysical Union anthropogenic global warming AGW AHD The American Heritage® Dictionary of the English Language, Fourth Edition

copyright ©2000 by Houghton Mifflin Company. Updated in 2009.

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Cos	mic Catastrophism Affecting the Earth - Bibliography and Handbook.docx Thursday, December 07, 2017
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	ANtarctic 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:] <u>http://apod.nasa.gov/</u>
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

Co	smic Catastrophism Affecting the Earth - Bibliography and Handbook.docx Thursday, December 07, 2017
AURA AVGR	Association of Universities for Research in Astronomy, Inc. [NASA] Ames Vertical Gun Range
`В	
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 Brown to Iron A of Chronology in the Angient Near Fast
BICANE	Bronze to from Age Chronology in the Ancient Near East
BICEP2	[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	Dack-scattered electron
BSB	Bible & Science Bibliography – william I. Thompson III
	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
	Chronology & Catastrophism Keview [WWW.sis-group.org.uk]
CAADI	Currue American Arabacelesical Descereb Institute
CAR	Cyprus American Archaeological Research Insultute
	coloium aluminum rich inclusions
cal	calendar years [Radiocarbon dating]
Caltech	California Institute of Technology
Curtoon	Currentia montate of reemiology

Cos	smic Catastrophism Affecting the Earth - Bibliography and Handbook.docx Thursday, December 07, 2017
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
ССР	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

Cosmic Catastrophism	Affecting the Earth -	Bibliography	and Handbook.docx
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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 or a meter]
СМ	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	Cohalt
CO_2	carbon dioxide
COBE	Cosmic Background Explorer [http://lambda.gsfc.nasa.gov/product/cobe/]
COCOA	Center of Curvature Ontical Assembly
Coe	coesite
COPOUS	Committee on the Peaceful Uses of Outer Space [UN]
CMBP	cosmic microwave background radiation
CME	coronal mass signation
CNEOS	NASA's Conter for NEO Studies [let Propulsion Laboratory]
CNEUS	NASA's Center for Neo Studies [Jet Propulsion Laboratory]
CINKS	Concertism for Continental Deflection Drafiling
COCURP	Consortium for Continental Reflection Profiling
CUSPAR	Commutee on Space Research
CPU	concentric polygonal outlines
CPU	central processing unit
Cr	
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]

Cosmic Catastrophism	Affecting the Earth -	Bibliography	and Handbook.docx
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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
De	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 laver 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
DSCOVR	Deep Space Climate Observatory [NASA spacecraft.]
DSDP	Deep Sea Drilling Project
DSP	Defense Support Program
DSRI	Danish Space Research Institute

	Thursday, December 07, 2017
DTA	differential thermal analysis
DTM	Digital Terrain Models
DTU	Technical University of Denmark
`E	
EASI	Earth and Snace 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]

Cos	smic Catastrophism Affecting the Earth - Bibliography and Handbook.docx Thursday, December 07, 2017
EPOCh EPOES EPOXI	Extrasolar Planet Observations and Characterization Education and Public Outreach for Earth and Space Sciences [NASA] 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	
Н	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 Imitative
	[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.sscc.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 rhenium, osmium, iridium, 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.]

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 Ice 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]

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INTA	Instituto Nacional de Tecnica Aerospacial 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]
ISET	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	ITASN, ITAlian Superbolide Network
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]
Κ	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
knh	(iy) kilometers per hour
K ₋ Pα	Cretaceous-Paleogene [mass extinction ~65 Ma]
k-i g kR	kilorayleighs [1 kB 100 photons cm ⁻² s ⁻¹ into 4π steradians]
KDEED	Shorthand for K the atomic symbol for potassium REE for Pare Earth Elements
KKELI	and P for phosphorous
K-T	Cretaceous-Tertiary [mass extinction ~ 65 Ma historic now called the K-Pg or
IX-1	Cretaceous-Paleogenel
kv	thousand(s) of years
Ky Kvr	thousand(s) of years
`L	
	Lyman Alaha Dlah 1
LAB-I	Lyman-Alpha Blob I
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	Libvan 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	Lockheed Martin Solar and Astrophysics Laboratory
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)

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ly LYDB	light years [is a unit of length, equal to just under 10 trillion kilometres.] 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.]
М	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-IRS	L multi-elevated temperature post-infrared stimulated luminescence
MetSoc	The Meteoritic Society
MEW	Mars-Earth Wars
MG	Middle Ghor [southern Jordan Vallev]
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 (MODIS) [NASA]
Moho	Mohorovicic discontinuity
MOID	minimum orbit intersection distance
MOND	modified Newtonian dynamics
MOR	Mission Operations Review [NASA]
MON	Maringan Oxygen_17 Depletion
MOSEIRE	Multi-Object Spectrometer for Infra-Red Exploration [W. M. Keck Observatory]
MDa	magapascals (1 MPa – N/mm ²) – a unit of pressure
ΜΡΔ	microprobe analysis
Mnc	meroprobe anarysis
MPC	Minor Planet Center [http://minorplanetcenter.net/]
MPE	Max Planck Institute for Extraterrestrial Physics (Germany)
MDEC	Minor Planet Electronic Circular
MPO	Minor Planet Circulars Orbit Supplement
MPO	Minor Planet Circulars Supplement
MD	malt rock
	Magnete Detetional Instability
	Magneto-Kotational Instability
MRO	Murshison Dadioastronomy Observatory (MDO) in remote Western Australia
MRO	Murchison Radioastronomy Observatory (MRO), in remote western Austrania
МДТ	[CSIKO] magnete Devleich Tevler [instehilities]
MRI	magneto-Kayleign-Taylor [instabilities]
MS A	Minerale sized Society of America
MSA	Mineralogical Society of America
MSL	mars Science Laboratory
MSD	magnetic spherules
MSPS	Mellend Succe Science Laboratory (LCL)
MSSL	Mullard Space Science Laboratory (UCL)
MSU	Michigan State University
MI	Masoretic Text
	megatons
	munuser domains
	Murchison widefield Array [radio telescope - CSIRO]
MWP1a	Meitwater 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/jau/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 1
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]
NGL	Nottingham Geospatial Institute
NGRIP	North Greenland Icecore Project [www.glaciology.gfv.ku.dk/ngrin/]
NGS	National Geographic Society
NHM	Natural History Museum [London]
Ni	nickel
NICMOS	Near Infrared Camera and Multi Object Spectromator (NICMOS) [Lykhla Spece
	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
` 0	
0	ovugon [An alamont]
0	Oxygen [An element.]
	Operations Control Center [Chandra]
0C0-2	Orolling Carbon Observatory-2 [NASA spacecraft.]
ODI	One Degree Imager [WIYIN 5.5-meter telescope on Kitt Peak National
	Observatory]
OFCD	Ocean Drining Project
OECD	Organisation for Economic Co-operation and Development
OIK	Opucal/Intrared
ODAC	Outon Planata Assessment Crown
OPAG	Outer Planets Assessment Group
UKNL	Uak Kidge 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	planar deformation features
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	Potentially hazardous objects
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
proplyds	PROto-PLanetarY Disk
PS	Palermo Scale
PSRD	Planetary Science Research Discoveries [www.psrd.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
D -	present, CYBP
ке	Knenium
KEE	Kare Earth Elements
KEPI	Keiativistic Electron Proton Telescope [On NASA RBSP spacecraft, renamed the Van Allen Probes mission.]

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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	(Sociétè Europèene 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.he/]
SIM	solar irradiance monitor [NASA SORCE satellite]
SIM	solar inertial motion
SiO	silicon dioxida
SIC2	Society for Interdisciplingry Studies
SI11	Southern Illinois University
SIU	Society of Losus [Losuite] competimes S. I.
SVA	Society of Jesus [Jesuits] sometimes S.J.
SKA	Squale Khometrie radiation
SKK	Saturn Knometric radiation
S-L 9	Comet Shoemaker-Levy 9 Steaford Lincon Accelerator Conton
SLAC	Stanford Linear Accelerator Center
SLUs	[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]

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SSERVI	Solar System Exploration Research Virtual Institute (NASA) [formerly the NASA Lunar Science Institute (NLSI)] <u>http://sservi.nasa.gov</u>	
SSI	solar spectral irradiance	
SSN	Sunspot Number	
SSSB	Small Solar System Body	
SSSI	Space Sciences Series of ISSI [International Space Science Institute]	
Stardust-NEx7	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		
-		
Т	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	11me 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)
TRAC	E Transition Region and Coronal Explorer [A spacecraft.]
Tr-J	Triassic-Jurassic [mass extinction]
TRM	thermo-remnant magnetization
TRMN	1 Tropical Rainfall Measuring Mission [satellite]
TS	Torino Scale
TSI	total solar irradiance or sometimes total solar irradiation
TSU	Trinity Southwest University
TT-OS	L thermally transferred optically simulated luminescence
TWIN	S Two Wide-Angle Imaging Neutral-Atom Spectrometers [Two NASA spacecraft.]
`U	
IIAP	Unidentified Atmospheric Phenomena
	Unified Astronomy Thesaurus [http://astrothesaurus.org/thesaurus/]
UCL	University College London
UCLA	University of California Los Angeles
UCLar	University of Central Lancashire
	Complutense University of Madrid (Spain)
UCM	Complutense University of Madrid (Spain)
UCM UCM UCSB	Complutense University of Madrid (Spain) unusual carbonaceous matter University of California Santa Barbara
UCM UCM UCSB UdeM	Complutense University of Madrid (Spain) unusual carbonaceous matter University of California Santa Barbara University of Montreal
UCM UCM UCSB UdeM UFO	Complutense University of Madrid (Spain) unusual carbonaceous matter University of California Santa Barbara University of Montreal Unidentified Flying Object
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UCM UCM UCSB UdeM UFO UFRO UH ULA ULIRO ULX UNINCO UNES UNM	Complutense University of Madrid (Spain) unusual carbonaceous matter University of California Santa Barbara University of Montreal Unidentified Flying Object University of Florida Radio Observatory (UFRO) Usselo Horizon United Kingdom United Launch Alliance Ss Ultra Luminous Infra Red Galaxies Ultra Luminous Infra Red Galaxies Ultra Luminous X-ray [sources] unmelted micrometeorites United Nations PUOS UN Committee on the Peaceful Uses of Outer Space [UN] CO United Nations Educational, Scientific and Cultural Organization University of New Mexico
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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.]
`V	
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
`W	
W	wotto
	Watts Waatarn Australia
WAC	western Australia
WAC	What Anteratia Ica Shoot
WDC	West Antalette Center
WDM	worm dark motter
	warm hat intercolocite modium
	warm-not intergalactic medium Worldg in Colligion I. Volikovaly
	worius in Collision - 1. velikovsky Wadia Instituta of Himalayan Capleary
WING	wada institute of minarayan Geology

WIS Weizmann Institute of Science

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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	Wilkinson Microwave Anisotropy Probe [http://map.gsfc.nasa.gov/index.htm]]
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
VDD	Paddack.
YBP	years before the present
`Z	
Zr	zirconium [An element.]
ZrSiO ₄	zircon [A mineral.]
ZTF	Zwicky Transient Facility

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