

## Indian Institute of Geomagnetism

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### List of Items @ IIG Library on Climate/Climate Change



### Books @ IIG Library on Climate/Climate Change

Some reprints by IIG Scientists on Climate/Climate Change

Some E-books @ IIG Library on Climate/Climate Change

Some Journal Special Issues on Climate/Climate Change

Item Detail	Class Number
000635 W.J.Humphreys: Physics of the air. (3rd ed.) New York. McGraw Hill Book Co., 1940.	551.51/.51
000688 W. G. Kendrew: The Climate of the continents. (Third Edition) New York. Oxford Univ.Press, 1942	551.5:551.582(210)
001504 Lester F.Hubert & Paul E.Lehr: Weather Satellites. Waltham. Blaisdell Pubg.Co., 1967. pbk	551.5:629.19
002017 H.H.Lamb: Climate. [Present, Past and Future, 2 Vols] London. Methuen & Co. Ltd., 1972. 416-11530-6 hb -	551.5:551.58
002155 H.H.Lamb: Climate : past, present and future, 2 Vols. New York. Methuen & Co. Ltd., 1977. 0-06-473881-7 hb	551.5/.583
002200 Frank Mitchell-Christie: Practical weather forecasting. London. William Luscombe, 1977. 0-86002-097-5 hb	551.509
002241 W.N.Hess: Weather and climate modification. New York. John Wiley & Sons, 1974. 0-471-37453-9 hb	551.5
002345 R.G.Barry & R.J.Chorley: Atmosphere,weather and climate. (3rd ed.) Colorado. Methuen & Co., 1978. 0-416-85390-0 pbk	551.51/.58
002636 M.I.Budyko: Climatic changes. Washington. American Geophysical Union, 1977. 0-87590-206-5 hb	551.5:551.583
002891 Richards A. Anthes: Weather around us. Ohio. Charles E.Merrill, 1976. 0-675-8635-3 pbk	551.51
002892 Glenn T.Trewartha & Lyle H.Horn: An introduction to climate. (5th ed.) Auckland. McGraw-Hill, 1980. 0-07-065152-3 pbk	551.51/.58

003048	M.I.Budyko: The earth's climate. New York. Academic Press, 1982. 0-12-139460-3 hb	551.5:551.583
003577	W.Schwerdtfeger: Weather and climate of the Antarctic. Amsterdam. Elsevier, 1984. 0-444-42293-5(vol. 15) hb	551.58(99)
003899	Michael Ghil & Stephen Childress: Topics in geophysical fluid dynamics. [atmospheric dynamics,dynamo theory, and climate dynamics] New York. Springer-Verlag, 1987. 0-387-96475-4	532.5:551.51:550.38
004563	National Research Council: Ozone depletion,greenhouse gases & climate change. Washington,D.C.. National Academy Press, 1989. 0-309-03945-2 pbk	551.510.534:551.588
004804	Peter V.Hobbs: Aerosol-cloud climate interactions. San Diego. Academic Press, 1993. 0-12-350725-1 hb	551.58:551.576:54-138
005256	Thomas J.Crowley & Gerald R.North: Paleoclimatology. New York. OUP, 1991. 0-19-503963-7	551.583.7
005298	George D.Garland & John R.Apel: Quo vadimus :geophysics for the next generation: GM 60. Washington. AGU, 1990. 0-87590-455-6 hb.\$10/---(	55
005841	John Houghton: The physics of atmospheres. (3rd ed.) Cambridge. CUP, 2002. 0-521-01122-1	551.51/.55
005955	Michael B.McElroy: The atmospheric environment. [effects of human activity] Princeton. Princeton Univ, 2002. 0-691-00691-1	551.51
006108	Hubertus Fischer: The climate in historical times. [towards a synthesis of holocene proxy data and climate models] Berlin. Springer-Verlag, 2004. 3-540-20601-9	551.583.7
006109	Arie S.Issar: Climate changes during the holocene and their impact on hydrological systems. Cambridge. CUP, 2003. 0-521-81726-9	551.583.7+551.7:556
006114	William F.Ruddiman: Tectonic uplift and climate change. New York. Plenum Press, 1997. 0-306-45642-7	551.583.7
006174	E.Friis-Christensen: Solar variability and climate. Dordrecht. Kluwer Academic Publishers, 2000. 0-7923-6741-3	52:523.9
006247	Douglas V.Hoyt & Kenneth H.Schatten: The role of the sun in climate changes. New York. OUP, 1997. 0-19-509414-X	523.9
006398	Michael Allaby: Viva facts on file science library : encyclopedia of weather and climate. (1st Ind. ed.) New Delhi. Viva Books, 2005. 81-309-0123-4	551.58(031)
006508	J.D.Haigh; M.Lockwood & M.S.Giampapa: The sun, solar analogs and the climate. Berlin. Springer Verlag, 2005. 3-540-23856-5	523.98:551.52
006511	Vera Markgraf: Interhemispheric climate linkages. California. Academic Press, 2001. 0-12-472670-4 107	551.58
006516	Margaret Leiner & Michael Sarnthein: Paleoclimatology and paleometeorology: modern and past patterns of global atmospheric transport. Dordrecht. Kluwer Academic Publishers, 1989. 0-7923-0341-5	551.583.7:551.5=551.7
006530	Kirill Ya.Kondratyev & Costas A.Varotsos: Atmospheric ozone variability. [implications for climate change, human health and ecosystems] London. Springer-Praxis Publg, 2000. 1-85233-635-8 149	551.510.534

006537	Mateo Gutierrez: Climatic geomorphology. Amsterdam. Elsevier, 2005. 0-444-52128-3	551.4.06
006544	Gerold Siedler; John Church & John Gould: Ocean circulation and climate. [observing and modelling the global ocean] San Diego. Academic Press, 2001. 0-12-641351	551.46:551.585.1
006557	Gregory S.Jenkins; Mark A.S.McMenamin; Christopher P.McKay & Linda Sohl: The Extreme proterozoic. [geology, geochemistry, and climate] Washington,D.C.. AGU, 2004. 0-87590411-4 70	551.583.7+550.46:551.793
006559	(eds.) P.K.Swart; K.C.Lohmann; J.McKenzie & S.Savin: Climate change in continental isotopic records. Washington,D.C.. AGU, 1993. 0-87590-037-2 57	551.583.7
006561	(eds) Dan Seidov; Bernd J.Haupt & Mark Maslin: The Ocean and rapid climate change. [past, present, and future] Washington,D.C.. AGU, 2001. 0-87590-985-X	551.583.7:551.461.8
006584	James W.Hurrell; Yochanan Kushnir; Geir Ottersen & Martin Visbeck: The North Atlantic oscillation. [climatic significance and environmental impact] Washington,D.C.. AGU, 2003. 0-87590-994-9 67	551.587/.588(261.1)
006586	G.A.McBean & M.Hantel: Interactions between global climate subsystems. [the legacy of Hann] Washington,D.C.. AGU, 1993. 0-87590-466-1 28 \$	551.583
006600	Kirstin Dow & Thomas E.Downing: The Atlas of climate change. [mapping the world's greatest challenge] London. Earthscan, 2006. 1-84407-376-9	551.583
006656	(ed.) Scott A.Elias: Encyclopedia of quaternary science, 4 vols. Amsterdam. Elsevier, 2007. 978-0444519191	551.79(031)
006678	Hans-Joachim Schellnhuber & V.Wenzel: Earth system analysis. [integrating science for sustainability] Berlin. Springer-Verlag, 1998. 3-540-58017-4	55:51-7/33
006680	John M.Wallace & Peter V.Hobbs: Atmospheric science. [an introductory survey] (2nd ed.) Amsterdam. Elsevier, 2006. 13-978-0-12-732951-2	551.51/.52
006691	J.T.Kiehl & V.Ramanathan: Frontiers of climate modeling. Cambridge. CUP, 2006. 0-521-79132-4	551.583/.5884
006751	Bromwich, David H. (eds.) & Stearns, Charles R. : Antarctic meteorology and climatology. [studies based on automatic weather stations] (1) Washington,D.C.. American geophysical union, 1993. 9781118668023	919(99):551.51/.58
006753	Kirill Ya.Kondratyev & Costas A.Varotsos: Atmospheric ozone variability. [implications for climate change, human health and ecosystems] Berlin. Springer, 2000. 3-540-58411-0	551.510.534
006764	Erno Meszaros: Global and regional changes in atmospheric composition. Boca Raton. Lewis Publishers, 1993. 0-87371-662-0	551.58
006795	Arie S.Issar: Climate changes during the holocene and their impact on hydrological systems. Cambridge. CUP, 2003. 0-521-81726-9	551.583.7+551.7:556
006813	ed.by Peter U.Clark; Robert S.Webb & Lloyd D.Keigwin: Mechanisms of global climate change at millennial time scales. Washington,D.C.. AGU, 1999. 0-87590-095-X	551.583.1/.7
006833	Guido Visconti: Fundamentals of physics and chemistry of the atmosphere. Berlin. Springer, 2001. 3-540-67420-9	551.51:550.46
006894	Stan Gibilisco: Meteorology demystified. [a self-teaching guide] New York. McGraw-Hill, 2006. 0-07-144848-9	551.51
006898	Robert E.Krebs: The basics of earth science. New Delhi. Atlantic, 2007. 031331930-8	55

006901	Ulrich Foelsche; Gottfried Kirchengast & Andrea Steiner: Atmosphere and climate. [studies by occultation methods] Berlin. Springer, 2006. 3-540-34116-1	551.51+551.58:520.86
007064	John Houghton: Global warming. [the complete briefing ] (3rd ed.) Cambridge. CUP, 2004. 978-0-521-52874-0	551.583
007067	John Marshall & R.Alan Plumb: Atmosphere, ocean, and climate dynamics: an introductory text. Amsterdam. Elsevier, 2008. 978-0-12-558691-7	551.51/.58:551.46
007068	(ed.) Kevin Hamilton & Wataru Ohfuchi: High resolution numerical modelling of the atmosphere and ocean. New York. Springer, 2008. 978-0-387-36671-5	551.51+551.465:517.96
007088	Vladislav Yu.Khomich; Anatoly I.Semonov & Nikolay N.Shefov: Airglow as an indicator of upper atmospheric structure and dynamics. Russia. Springer, 2008. 978-3-540-75832-7	551.593.55:551.51
007096	(ed.) Martin Parry [et al.]: Climate Change 2007. [impacts, adaptation and vulnerability ] Cambridge. CUP, 2007. 978-0-521-70597-4	551.583
007099	Lawrence A.Frakes; Jane E.Francis & Jozef I.Syktus: Climate modes of the Phanerozoic. [the history of the Earth's climate over the past 600 million years] Cambridge. CUP, 1992. 0-521-02194-4	551.73/.78:551.583.7
007105	Arnold Hansmeier: The sun and space weather. (2nd ed.) Dordrecht. Springer, 2007. 978-1-4020-5603-1	523.9:52spc
007106	O.G.Sorokhtin; G.V.Chilingar & L.F.Khilyuk: Global warming and global cooling. [evolution of climate on earth] Amsterdam. Elsevier, 2007. 978-0-444-52815-5	551.583:504.3
007153	(ed.) Mort D.Turner & John F.Splettstoesser: Geology of the central transantarctic mountains, part[8-9]. Washington,D.C.. AGU, 1984. 0-87590-184-0	551(99)
007184	(ed.) Catherine Gautier & Jean-Louis Fellous: Facing climate change together. Cambridge. CUP, 2008. 978-0-521-89682-5	551.583
007201	Bert Metz [et al.] & Rutu Dave: Climate change 2007. [mitigation of climate change] Cambridge. CUP, 2007. 978-0-521-70598-1 \$ 85.00	551.583
007202	Peter D.Clift & R.Alan Plumb: Asian monsoon, The. [causes, history and effects] Cambridge. CUP, 2008. 978-0-521-84799-5	551.553.21(5)
007232	G.R.Beardsmore & J.P.Cull: Crustal heat flow. [a guide to measurement and modelling] Cambridge. CUP, 2001. 0-521-79703-9	550.362:551.14
007247	Edward J.Tarback & Frederick K.Lutgens: Earth Science. (12th ed.) New Jersey. Pearson Prentice Hall, 2009. 978-0-13-602007-3	551.1/.5
007252	(ed.) Avijit Gupta: Large rivers. [geomorphology and management] Chichester. Wiley, 2007. 978-0-470-84987-3	556.53:551.4
007256	Wilford Zdunkowski ; Thomas Trautmann & Andreas Bott: Radiation in the atmosphere. [a course in theoretical meteorology] Cambridge. CUP, 2007. 0-521-87107-7	551.521.32
007257	(ed.) Lynn J.Rothschild & Adrian M.Lister: Evolution on planet earth. [the impact of the physical environment] Amsterdam. Acad Press, 2003. 0-12-598655-6	551.12

007318	Renata Dmowska: Advances in Geophysics, v.47. Amsterdam. Academic Press, 2004. 0-12-018847-3	550.3
007320	Claudio Vita-Finzi: The sun. [a user's manual] London. Springer, 2008. 978-1-4020-6880-5	523.9
007325	ed.by Raymond Jeanloz , Arden L.Albee, Kevin C.Burke & Katherine H.Freeman: Annual review of earth and planetary sciences, v.36. California. Annual Review Inc., 2008. 978-0-8243-2036-2 0	55:52
007453	John Marshall & R.Alan Plumb: Atmosphere, ocean and climate dynamics. [an introductory text] Amsterdam. Elsevier, 2008. 978*0-12-558691-7	551.51/.58:551.46
007483	Indian Institute of Tropical Meteorology & Department of Physics, University of Pune: Cloud physics and stmospheric electricity-fundamentals. Pune. DST, 2000.	551.576/.594
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007911	Kenji Satake & Chun-Chieh Wu: Advances in geosciences vol. 22 : atmospheric science. New Jersey. World Scientific, 2011. 13-978-981-4355-30-8 \$536 (6 vol.set)	55(03)
007926	Neelin, David J.: Climate change and climate modeling. Cambridge. CUP, 2011. 9780521602433	551.583
007936	Donner, Leo; Schubert, Wayne & Somerville, Richard: The development of atmospheric general circulation models. [complexity, synthesis, and computation] Cambridge. Cambridge University Press, 2011. 9780521190060	551.513:551.501
007937	Burroughs, William James: Climate change . [a multidisciplinary approach] (2nd ed.) Cambridge. Cambridge University Press, 2007. 9780521690331	551.583
007944	Norris, Pat: Watching earth from space. [how surveillance helps us - and harms us] UK. Springer with Praxis Publishing, 2010. 9781441969378	629.783:55
007980	Kusky,Timothy: The hazardous earth : climate change. [shifting glaciers, deserts, and climate belts] New Delhi. Viva Books, 2012. 978-81-309-1583-8	504.4
008401	Souparno Banerjee; Richard Mahapatra & Papia Samajdar: State of India's Environment 2014. New Delhi. Centre for science and environment, 2014. 978-81-86906-68-2	502/504(54)
008460	(eds.) Christopher B. Field; Vicente Barros; Thomas F. Stocker & Qin Dahe: Managing the risks of extreme events and disasters to advance climate change adaptation. [Special report of the intergovernmental panel on climate change] New York. CUP, 2012. 9781107607804	551.583:364.4-022.326.5
008629	Robert V. Rohli & Anthony J. Vega: Climatology. (3rd ed.) USA. Jones & Bartlett learning, 2015. 978-1-284-03230-7	551.58
008631	(ed.) Jurg Fuhrer & Peter J. Gregory: Climate change impact and adaptation in agricultural systems. UK. CABI International, 2014. 978-1-78064-289-5	551.583:631.152
008638	(ed.) Gerald R. North; John Pyle & Fuqing Zhang: Encyclopedia of atmospheric sciences . (2nd ed.) Amsterdam. Academic Press, 2015. 9780123822253 (Set ISBN)	551.51(031)

008646	Steven A. Ackerman & John A. Knox: Meteorology. [understanding the atmosphere] (4th ed.) MA. Jones & Bartlett learning, 2015. 978-1-284-03080-8	551.5/58
008689	Kanika Lalwani: Paleoenvironmental changes in sediments of Ujani, Tirna river, Maharashtra. [insights from environmental magnetism and geochemistry] Navi Mumbai. IIG, 2016.	537.6:550.4(540.53)
008743	Dennis L Hartmann: Global physical climatology. (2nd ed.) Amsterdam. Elsevier, 2016. 9780123285317	551.582
008829	Michael Allaby: Encyclopedia of natural disaster, 8 vols . New Delhi. Viva Books, 2016. 9788130921587	504.4(031)
008846	Luc Thomas Ikelle: Introduction to Earth sciences. [a physics approach] New Jersey. World Scientific Publishing, 2017. 978-9813148420 \$ 68.00	55:53
008849	H. Sarvothaman: Environment science. [issues and solutions] New Delhi. Asiatech Publishers, Inc, 2017. 8187680334	502/504.7
009061	Castillo,Federico; Wehner,Michael & Stone,Daithi A.: Extreme events and climate change. [a multidisciplinary approach] (1st ed.) USA. John Wiley & Sons, 2021. 978-1-119-41362-2	551.51

#### Some Publications on Climate/Climate Change by IIG Scientists

090771	D.A.Sant [et al.]: Characterization of flood plain and climate change using multi-proxy records from the Mahi river basin, mainland Gujarat. (Journal of Indian Geophysical Union, 2004, 8(1), p.39-48) --(SAN)
091145	Nathani Basavaiah: Morphostratigraphy and palaeoclimate appraisal of the Leh Valley, Ladakh Himalayas, India. (J Geological Society of India, Jun 2011, v.77, p.499-510) --(BAS)
091295	C.Panneerselvam[et al.]: Fairweather atmospheric electricity at Antarctica during local summer as observed from Indian station, Maitri. (J. Earth Syst. Sci. 116, No. 3, June 2007, pp. 179–186) 2007.
091305	V.KUMARAVEL; S.J.SANGODE; N.SIVA SIDDAIAH & ROHTASH KUMAR: Major element geochemical variations in a Miocene-Pliocene Siwalik paleosol sequence: Implications to soil forming processes in the Himalayan foreland basin. (JOURNAL GEOLOGICAL SOCIETY OF INDIA, Vol.73, June 2009, pp.759-772) 2009.
091490	Singh,R.: Brief Communication: Climate, topographical and meteorological investigation of the 16–17 June 2013 Kedarnath (India) disaster. (NATHAZARDSEARTHSYSSCI,2015,3,p.941-953,DOI: 10.5194/nhessd-3-941-2015) 2015.
091517	N. Basavaiah[et al.]: Late Quaternary environmental and sea level changes from Kolleru lake, SE India: inferences from mineral magnetic, geochemical. (QUATERNINT,2015,371,p.197-208,DOI: 10.1016/j.quaint.2014.12.018) 2015.
091613	Rajesh Singh [et al.]: On the association of lightning activity and projected change in climate over the Indian sub-continent. (ATMOSRES, 2016, 183, p. 173-190, DOI: 10.1016/j.atmosres.2016.09.001) 2016.
091620	G.S. Lakhina [et al.]: Heliospheric plasma sheet (HPS) impingement onto the magnetosphere as a cause of relativistic electron dropouts (REDs). (JGR, 2016, 121, DOI: 10.1002/2016JA022499) 2016.

- 091652 Ankush Bhaskar [et al]: Quantitative assessment of drivers of recent global temperature variability: an information theoretic approach. (CLIMDYNAMICS, 2017, DOI: 10.1007/s00382-017-3549-5) 2017.
- 091772 Roshni Dave & Malini Aggarwal: Preliminary ground based measurements of Aerosol Optical thickness over Udaipur (Rajasthan), India. (JIGU, 2018, 22/4, P. 444-449) 2018.
- 091807 Praveen B. Gawali; B.V. Lakshmi & K. Deenadayalan: Climate Change and Monsoon: Looking into its Antecedents. (SAGE OPEN, 2019, JAN-MAR, P. 1–13, DOI: doi.org/10.1177/2158244018822) 2019.
- 091872 Gopi Seemala [et al.]: A Neural Network-Based Ionospheric Model Over Africa From Constellation Observing System for Meteorology, Ionosphere, and Climate and Ground Global Positioning System Observations. (JGR, 124, DOI: 10.1029/2019JA027065 ) 2019.
- 091940 N. Basavaiah [et al.]: Holocene climate forcings and lacustrine regime shifts in the Indian summer monsoon realm. (EARTHSURFPROCLANDFORMS, 2020, DOI: 10.1002/esp.5004) 2020.

### Some E-Books on Climate/Climate Change

- E00012 Wilford Zdunkowski, Thomas Trautmann & Andreas Bott: Radiation in the atmosphere. [a course in theoretical meteorology] Cambridge. CUP, 2007. 9780511535796 U S \$ 208 (Rs.9465)--(551.521.32ZDU) 551.521.32
- E00118 Rashid, Harunur (eds.); Polyak, Leonid & Mosley-Thompson, Ellen : Abrupt climate change. [mechanisms, patterns, and impacts] (1) Washington, DC. AGU, 2011. 9781118670040 \$120.00
- E00124 Keller, Michael (eds.); Bustamante, Michael ; Gash, John & Dias, Pedro Silva : Amazonia and global change. (1) Washington, DC. American geophysical union, 2009. 9781118670347 \$120.00
- E00136 Domack, Eugen (eds.); Levente, Amy ; Burnet, Adam ; Bindschadler, Robert ; Editor - Peter Convey & Editor - Matthew Kirby: Antarctic peninsula climate variability. [historical and paleoenvironmental perspectives] (1) Washington, D.C.. American Geophysical Union, 2003. 9781118668450 \$80
- E00153 DeWeaver, Eric T. (eds.); Bitz, Cecilia M. & Tremblay, L.-Bruno : Arctic sea ice decline. [observations, projections, mechanisms, and implications] (1) Washington, D.C. . American geophysical union, 2008. 9781118666470 \$128.00
- E00210 Swart, P. K. (eds.); Lohmann, K. C. ; Mckenzie, J. & Savin, S. : Climate change in continental isotopic records. Washington, D.C. . American geophysical union , 1993. 9781118664025 \$57.00
- E00213 Budyko, M. I. : Climatic changes. Washington, D.C. . American geophysical union , 1977. 9781118665251 \$40.00
- E00650 Exon, Neville F. (eds.); Kennett, James P. & Malone, Mitchell J. : Cenozoic southern ocean, The. [tectonics, sedimentation, and climate change between Australia and Antarctica] Washington, D.C. . AGU, 2004. 9781118666210 \$85.00
- E00671 Hurrell, James W. (eds.); Kushnir, Yochanan ; Ottersen, Geir & Visbeck, Martin : North Atlantic oscillation, The . 2003. x,279p.;

### Some Special Issues of Journals on Climate/Climate Change

- S00040 (ed.) Ilya Usoskin: Solar Variability, Cosmic Rays and Climate.
- S00080 (eds.) T.H. Zurbuchen; D.F. Smart; X. Blanco-Cano & J. Lastovicka: Particle Acceleration; Space Plasma Physics; Solar Radiation and the Earth's Atmosphere and Climate.
- S00118 (eds.) J.M. Pap; J. Kuhn; K. Labitzke & M.A. Shea: Solar Variability and Climate Change.
- S00125 (eds.) P. Schlüssel; R. Stuhmann; J.W. Campbell & C. Erickson: Climate Change Processes in the Stratosphere, Earth-Atmosphere-Ocean Systems, and Oceanographic Processes from Satellite Data.
- S00371 (eds.) Venkat Ratnam; Pallam Raju & S. Gurubaran: The Indian Programme on CLIMATE AND WEATHER OF THE SUN EARTH SYSTEM Scientific Accomplishments from Phase II.
- S00413 M. Fullekrug; N.B. Crosby & J. Liliensten: Solar and Heliospheric Influences on the Earth's Weather and Climate.
- S00461 K. Henriksen: The Ozone, Climatic Gases and Greenhouse Effect Meeting.