

SUBJECT INDEX

- ¹³C
 Measurement of marine productivity using ¹⁵N and ¹³C tracers: Some methodological aspects 99
- ¹⁵N
 Measurement of marine productivity using ¹⁵N and ¹³C tracers: Some methodological aspects 99
- 85°E Ridge
 Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- pCO₂
 Carbon isotopic composition of fossil leaves from the Early Cretaceous sediments of western India 703
- Acacia*
 Modelling soil moisture under different land covers in a sub-humid environment of Western Ghats, India 387
- Advection
 One-dimensional unsteady solute transport along unsteady flow through inhomogeneous medium 205
- Aerosol cluster
 Role of dynamics in the advection of aerosols over the Arabian Sea along the west coast of peninsular India during pre-monsoon season: A case study based on satellite data and regional climate model 269
- Aerosol particle size distribution
 The ion–aerosol interactions from the ion mobility and aerosol particle size distribution measurements on January 17 and February 18, 2005 at Maitri, Antarctica – A case study 735
- Aged particles
 Volatile properties of atmospheric aerosols during nucleation events at Pune, India 347
- Airglow emission
 Long-term ozone decline and its effect on night airglow intensity of Li 6708 Å at Varanasi (25°N, 83°E) and Halley Bay (76°S, 27°W) 291
- Albedo
 Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321
- Alluvial aquifers
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Amery Ice Shelf
 Study of inter-annual variations in surface melting over Amery Ice Shelf, East Antarctica, using space-borne scatterometer data 329
- Ammonium
 Measurement of marine productivity using ¹⁵N and ¹³C tracers: Some methodological aspects 99
- Anabatic and katabatic wind
 Study of vertical wind profiles in an urban area with complex terrain (Tehran) 825
- Anacardiaceae
 Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Analytical solution
 A generalized solution for groundwater head fluctuation in a tidal leaky aquifer system 1055
- Andesite
 Microtextural and mineral chemical analyses of andesite–dacite from Barren and Narcondam islands: Evidences for magma mixing and petrological implications 145
- Andhra Pradesh
 Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India 911
- Annual tree-rings
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713
- Aquitard
 A generalized solution for groundwater head fluctuation in a tidal leaky aquifer system 1055
- Ar–Ar dating
 Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
- Arabian Sea
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Archaean
 Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643
- ARIMA models
 Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Artificial neural network
 Radiative transfer simulations for the MADRAS imager of Megha-Tropiques 1
- Assam
 Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Assessment
 A decision support system-based procedure for evaluation and monitoring of protected areas sustainability for the Mediterranean region 949
- Asymmetries in equatorial electrojet
 Equatorial electrojet in the south Atlantic anomaly region 301

- Atmosphere–soil–vegetation interaction
 Modelling soil moisture under different land covers in a sub-humid environment of Western Ghats, India 387
- Atmospheric disturbances
 Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
- Atmospheric science
 Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- Atmospheric sciences
 Impact of gridpoint statistical interpolation scheme over Indian region 1095
- Atmospheric stability
 Atmospheric stability index using radio occultation refractivity profiles 311
- Barakar
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Barren island
 Microtextural and mineral chemical analyses of andesite–dacite from Barren and Narcondam islands: Evidences for magma mixing and petrological implications 145
- Bay of Bengal
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Beach rocks
 Discontinuity surfaces and event stratigraphy of Okha Shell Limestone Member: Implications for Holocene sea level changes, western India 723
- Bengal Fan
 Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- Bhim Group
 Characteristics of pegmatoidal granite exposed near Bayalan, Ajmer district, Rajasthan 617
- Bhuban Formation
 Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127
- Brahmaputra
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Brazilian anomaly in equatorial electrojet
 Equatorial electrojet in the south Atlantic anomaly region 301
- Budgam
 Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423
- Bulk shortening
 Numerical study of mechanism of fold formation in a laminated rock 965
- Caledonian
 Geochemistry and petrogenesis of Neoproterozoic Myllem granitoids, Meghalaya Plateau, northeastern India 459
- Carbon
 Measurement of marine productivity using ¹⁵N and ¹³C tracers: Some methodological aspects 99
- Carbon isotopes
 Carbon isotopic composition of fossil leaves from the Early Cretaceous sediments of western India 703
- Cause-effect models
 Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Cell size
 Determining the optimum cell size of digital elevation model for hydrologic application 573
- Chemical quality
 Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
- Chhattisgarh Supergroup
 1420 Ma diabasic intrusives from the Mesoproterozoic Singhora Group, Chhattisgarh Supergroup, India: Implications towards non-plume intrusive activity 223
- Chlorophyll
 Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
- Chlorophyll *a*
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
- Circulation
 Anomalous behaviour of the Indian summer monsoon 2009 783
- Circulation dynamics
 Role of dynamics in the advection of aerosols over the Arabian Sea along the west coast of peninsular India during pre-monsoon season: A case study based on satellite data and regional climate model 269
- Clay minerals
 Significance of saturation index of certain clay minerals in shallow coastal groundwater, in and around Kalpakkam, Tamil Nadu, India 897
- Climate change
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
 Study of inter-annual variations in surface melting over Amery Ice Shelf, East Antarctica, using space-borne scatterometer data 329
 Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Climate changes
 Impact of climate change on extreme rainfall events and flood risk in India 359
- Coal
 Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321
- Coastal aquifer
 A generalized solution for groundwater head fluctuation in a tidal leaky aquifer system 1055
- Coastal groundwater
 Significance of saturation index of certain clay minerals in shallow coastal groundwater, in and around Kalpakkam, Tamil Nadu, India 897
- Coherence
 Elastic thickness estimates at northeast passive margin of North America and its implications 447

- Colluvium
Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India 979
- Combined models
Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Complex terrain
Study of vertical wind profiles in an urban area with complex terrain (Tehran) 825
- Compression rate
Numerical study of mechanism of fold formation in a laminated rock 965
- Condensation particle counter
Atmospheric ultrafine aerosol number concentration and its correlation with vehicular flow at two sites in the western Himalayan region: Kullu-Manali, India 281
- Contamination
Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321
- Convective activity
Analysis on MM5 predictions at Sriharikota during north-east monsoon 2008 755
- Convective available potential energy (CAPE)
Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Correlation
Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Correlation analysis
Atmospheric ultrafine aerosol number concentration and its correlation with vehicular flow at two sites in the western Himalayan region: Kullu-Manali, India 281
- Coupled systems
Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Craton
Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643
- Cretaceous
Carbon isotopic composition of fossil leaves from the Early Cretaceous sediments of western India 703
- Cryonival processes
Present day relief-shaping systems acting on the southern slope of the Făgăraș Mountains (Romania) 1023
- Crystalline klippen
Petrography, geochemistry and regional significance of crystalline klippen in the Garhwal Lesser Himalaya, India 489
- Cyclone
Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
- D-excess
A comparative study on isotopic composition of precipitation in wet tropic and semi-arid stations across southern India 1085
- Daba mafic rocks
Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the Delhi Fold Belt, NW India 627
- Dacite
Microtextural and mineral chemical analyses of andesite–dacite from Barren and Narcondam islands: Evidences for magma mixing and petrological implications 145
- Data analysis
Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Decision support systems
A decision support system-based procedure for evaluation and monitoring of protected areas sustainability for the Mediterranean region 949
- Degenerate form
One-dimensional unsteady solute transport along unsteady flow through inhomogeneous medium 205
- DEM
Determining the optimum cell size of digital elevation model for hydrologic application 573
- Dharwar
Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643
- Dharwar craton
Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Diabasic intrusive
1420 Ma diabasic intrusives from the Mesoproterozoic Singhora Group, Chhattisgarh Supergroup, India: Implications towards non-plume intrusive activity 223
- Diffusion
One-dimensional unsteady solute transport along unsteady flow through inhomogeneous medium 205
- Dinoflagellates
Identification of non-indigenous phytoplankton species dominated bloom off Goa using inverted microscopy and pigment (HPLC) analysis 1145
- Discontinuity surfaces
Discontinuity surfaces and event stratigraphy of Okha Shell Limestone Member: Implications for Holocene sea level changes, western India 723
- Discrete element method
Numerical study of mechanism of fold formation in a laminated rock 965
- Doon valley
Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Doppler SODAR
Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- Downscaling
Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Dwelling burrow
Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127

- Early Holocene
Discontinuity surfaces and event stratigraphy of Okha Shell Limestone Member: Implications for Holocene sea level changes, western India 723
- Early Miocene
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
- Earth observation
Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- East Kolkata Wetlands
Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
- Eigenmode method
Efficient two-dimensional magnetotellurics modelling using implicitly restarted Lanczos method 595
- El Niño/southern oscillation (ENSO)
Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Elastic plate thickness
Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- Elastic thickness
Elastic thickness estimates at northeast passive margin of North America and its implications 447
- Entropy
Determining the optimum cell size of digital elevation model for hydrologic application 573
- Environmental magnetism
Environmental magnetic and geochemical characteristics of Chennai coastal sediments, Bay of Bengal, India 885
- Equatorial electrojet
Equatorial electrojet in the south Atlantic anomaly region 301
- Equatorial ionization anomaly (EIA) region
GPS based TEC measurements for a period August 2008–December 2009 near the northern crest of Indian equatorial ionospheric anomaly region 851
- Estimation variance
Application and evaluation of universal kriging for optimal contouring of groundwater levels 413
- Euphorbiaceae
Study of fossil wood from the Middle-Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Evolution
Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Excitation mechanism
Long-term ozone decline and its effect on night airglow intensity of Li 6708 Å at Varanasi (25°N, 83°E) and Halley Bay (76°S, 27°W) 291
- Extreme events
Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
Subsurface signatures and timing of extreme wave events along the southeast Indian coast 873
- Extreme rainfall events
Impact of climate change on extreme rainfall events and flood risk in India 359
- Făgăraş Mountains
Present day relief-shaping systems acting on the southern slope of the Făgăraş Mountains (Romania) 1023
- Fabaceae
Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Feeding burrow
Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127
- Ficus racemosa*
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
- Finite difference
Efficient two-dimensional magnetotellurics modelling using implicitly restarted Lanczos method 595
- Flood risk
Impact of climate change on extreme rainfall events and flood risk in India 359
- Fluvial deposits
Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India 979
- Fly ash
Anthropogenic and impact spherules: Morphological similarity and chemical distinction – A case study from India and its implications 1043
- Folding
Numerical study of mechanism of fold formation in a laminated rock 965
- Fossil *Ficus*
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
- Fossil wood
Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Fractal dimension
Determining the optimum cell size of digital elevation model for hydrologic application 573
- Frequency of inversion
Variability in surface inversion characteristics over India in winter during the recent decades 73
- Ganges
Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Gelivation processes
Present day relief-shaping systems acting on the southern slope of the Făgăraş Mountains (Romania) 1023
- General/other
Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557

- Geochemistry
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
 Petrography, geochemistry and regional significance of crystalline klippen in the Garhwal Lesser Himalaya, India 489
 Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the Delhi Fold Belt, NW India 627
- Geochemistry and age
 1420 Ma diabasic intrusives from the Mesoproterozoic Singhora Group, Chhattisgarh Supergroup, India: Implications towards non-plume intrusive activity 223
- Geochronology
 Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643
- Geographic information system (GIS)
 Application and evaluation of universal kriging for optimal contouring of groundwater levels 413
 Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423
- Geomorphology
 Present day relief-shaping systems acting on the southern slope of the Făgăraș Mountains (Romania) 1023
- Geostatistics
 Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
 Application and evaluation of universal kriging for optimal contouring of groundwater levels 413
- Gerdian Ion Counter Battery
 The ion–aerosol interactions from the ion mobility and aerosol particle size distribution measurements on January 17 and February 18, 2005 at Maitri, Antarctica – A case study 735
- GIS
 Modelling spatial anisotropy of gold concentration data using GIS-based interpolated maps and variogram analysis: Implications for structural control of mineralization 583
- Global-models
 Experimental real-time multi-model ensemble (MME) prediction of rainfall during monsoon 2008: Large-scale medium-range aspects 27
- Godavari Graben
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- GPS
 GPS based TEC measurements for a period August 2008–December 2009 near the northern crest of Indian equatorial ionospheric anomaly region 851
- Granite
 Influence of shear velocity on frictional characteristics of rock surface 183
- Gravity
 Elastic thickness estimates at northeast passive margin of North America and its implications 447
- Ground-penetrating radar
 Subsurface signatures and timing of extreme wave events along the southeast Indian coast 873
- Groundwater
 Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India 85
 Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
 Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India 911
- Groundwater potential
 Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
- Gundala
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Heat flux
 Study of vertical wind profiles in an urban area with complex terrain (Tehran) 825
- Heavy metals
 Environmental magnetic and geochemical characteristics of Chennai coastal sediments, Bay of Bengal, India 885
- Heavy minerals
 Subsurface signatures and timing of extreme wave events along the southeast Indian coast 873
- Himachal Pradesh
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
- Himalaya
 Geochemical characterization of surface water and spring water in SE Kashmir Valley, western Himalaya: Implications to water–rock interaction 921
 Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- HPLC
 Identification of non-indigenous phytoplankton species dominated bloom off Goa using inverted microscopy and pigment (HPLC) analysis 1145
- Hyderabad
 A comparative study on isotopic composition of precipitation in wet tropic and semi-arid stations across southern India 1085
- Hydrocarbon
 Palynofacies characterization for hydrocarbon source rock evaluation in the Subathu Formation of Marhigat, Sirmour district, Himachal Pradesh 933
- Hydroclimatology
 Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Hydrogeochemistry
 Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India 85
 Significance of saturation index of certain clay minerals in shallow coastal groundwater, in and around Kalpakkam, Tamil Nadu, India 897
 Geochemical characterization of surface water and spring water in SE Kashmir Valley, western Himalaya: Implications to water–rock interaction 921
- Hydrology
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Hyperspectral
 Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321

- Imager
Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- India
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India 911
Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
A comparative study on isotopic composition of precipitation in wet tropic and semi-arid stations across southern India 1085
- India monsoon
Experimental real-time multi-model ensemble (MME) prediction of rainfall during monsoon 2008: Large-scale medium-range aspects 27
- Indian summer monsoon drought
Anomalous behaviour of the Indian summer monsoon 2009 783
- Indicators
A decision support system-based procedure for evaluation and monitoring of protected areas sustainability for the Mediterranean region 949
- Indo-Australian slab
Slab detachment of subducted Indo-Australian plate beneath Sunda arc, Indonesia 193
- Inhomogeneous medium
One-dimensional unsteady solute transport along unsteady flow through inhomogeneous medium 205
- INSAT-3D
Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- Instruments and techniques
Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Intensity
Long-term ozone decline and its effect on night airglow intensity of Li 6708 Å at Varanasi (25°N, 83°E) and Halley Bay (76°S, 27°W) 291
- Intergovernmental Panel on Climate Change Special Report on Emission Scenarios (IPCC SRES)
Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Inverse problem
Radiative transfer simulations for the MADRAS imager of Megha-Tropiques 1
- Inversion depth
Variability in surface inversion characteristics over India in winter during the recent decades 73
- Inversion strength
Variability in surface inversion characteristics over India in winter during the recent decades 73
- Ion microprobe
Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643
- Ion–aerosol interactions
The ion–aerosol interactions from the ion mobility and aerosol particle size distribution measurements on January 17 and February 18, 2005 at Maitri, Antarctica – A case study 735
- Ion-induced nucleation
New particle formation by ion-induced nucleation during dissipation stage of thunderstorm 843
- Ionosphere
GPS based TEC measurements for a period August 2008–December 2009 near the northern crest of Indian equatorial ionospheric anomaly region 851
- ISRO AWS
Impact of additional surface observation network on short range weather forecast during summer monsoon 2008 over Indian subcontinent 53
- Jaduguda
Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Joint density
Evaluation of the role of rock properties in the development of potholes: A case study of the Indrayani knick-point, Maharashtra 157
- Kachchh
Carbon isotopic composition of fossil leaves from the Early Cretaceous sediments of western India 703
- Kachchh Mainland Fault (KMF)
Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India 979
- Kalpana satellite
Atmospheric correction for sea surface temperature retrieval from single thermal channel radiometer data onboard Kalpana satellite 337
- Karharbari
Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Karst
Geochemical characterization of surface water and spring water in SE Kashmir Valley, western Himalaya: Implications to water–rock interaction 921
- Kasauli Formation
Ficus palaeoracemosa sp. nov. – A new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance 253
- Kashmir Himalaya
Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423

- Kashmir Himalayas
Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
- Kink bands
Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- Knickpoint
Evaluation of the role of rock properties in the development of potholes: A case study of the Indrayani knick-point, Maharashtra 157
- Kolar
Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Kolkata
Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
- Koyna reservoir inflow
Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Kozhikode
A comparative study on isotopic composition of precipitation in wet tropic and semi-arid stations across southern India 1085
- Kriging
Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Ku-band scatterometer
Study of inter-annual variations in surface melting over Amery Ice Shelf, East Antarctica, using space-borne scatterometer data 329
- Kullu-Manali
Atmospheric ultrafine aerosol number concentration and its correlation with vehicular flow at two sites in the western Himalayan region: Kullu-Manali, India 281
- Kutch
Saddle-shaped reticulate *Nummulites* from Early Oligocene rocks of Khari area, SW Kutch, India 263
- Land degradation
Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423
- Land subsidence
Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
- Land surface
Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- Land survey
Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Leaf area index
Development of regional wheat VI-LAI models using Resourcesat-1 AWiFS data 1113
- Leaky aquifer
A generalized solution for groundwater head fluctuation in a tidal leaky aquifer system 1055
- Lesser Himalaya
Petrography, geochemistry and regional significance of crystalline klippen in the Garhwal Lesser Himalaya, India 489
- Lifted index
Atmospheric stability index using radio occultation refractivity profiles 311
- Lightning intensity and rain
New particle formation by ion-induced nucleation during dissipation stage of thunderstorm 843
- Linear-based genetic programming
Nonlinear genetic-based simulation of soil shear strength parameters 1001
- Lithospheric flexure
Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- Lower Palaeolithic
Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
- Lower to Middle Miocene
Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127
- Lower Triassic
Palaeoseismicity in relation to basin tectonics as revealed from soft-sediment deformation structures of the Lower Triassic Panchet formation, Raniganj basin (Damodar valley), eastern India 167
- Lumped and distributed data
Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Magma mixing
Microtextural and mineral chemical analyses of andesite–dacite from Barren and Narcondam islands: Evidences for magma mixing and petrological implications 145
- Magnetic fabric
Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the Delhi Fold Belt, NW India 627
- Magnetic susceptibility
Subsurface signatures and timing of extreme wave events along the southeast Indian coast 873
- Major ions
Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India 85
Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
- Malaprabha river basin
Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Management
A decision support system-based procedure for evaluation and monitoring of protected areas sustainability for the Mediterranean region 949
- Manasbal lake
Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
- Marine sediments
Environmental magnetic and geochemical characteristics of Chennai coastal sediments, Bay of Bengal, India 885

- Mawpyut complex
 Melanite garnet-bearing nepheline syenite minor intrusion in Mawpyut ultramafic–mafic complex, Jaintia Hills, Meghalaya 1033
- Megha-Tropiques
 Radiative transfer simulations for the MADRAS imager of Megha-Tropiques 1
- Meghalaya plateau
 Melanite garnet-bearing nepheline syenite minor intrusion in Mawpyut ultramafic–mafic complex, Jaintia Hills, Meghalaya 1033
- Melanite garnet
 Melanite garnet-bearing nepheline syenite minor intrusion in Mawpyut ultramafic–mafic complex, Jaintia Hills, Meghalaya 1033
- Melting index
 Study of inter-annual variations in surface melting over Amery Ice Shelf, East Antarctica, using space-borne scatterometer data 329
- Mesozoic magmatism
 Melanite garnet-bearing nepheline syenite minor intrusion in Mawpyut ultramafic–mafic complex, Jaintia Hills, Meghalaya 1033
- Meteoritic impact
 Anthropogenic and impact spherules: Morphological similarity and chemical distinction – A case study from India and its implications 1043
- Microtektites
 Anthropogenic and impact spherules: Morphological similarity and chemical distinction – A case study from India and its implications 1043
- Mineralogy and petrology
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Minor element
 Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Miocene
 Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Mobility spectra of ions
 The ion–aerosol interactions from the ion mobility and aerosol particle size distribution measurements on January 17 and February 18, 2005 at Maitri, Antarctica – A case study 735
- Modelling
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
 Impact of gridpoint statistical interpolation scheme over Indian region 1095
- MODFLOW
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- MODTRAN
 Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- Moisture index
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713
- Molasses
 Paleochannel and paleohydrology of a Middle Siwalik (Pliocene) fluvial system, northern India 531
- Monsoons
 Impact of gridpoint statistical interpolation scheme over Indian region 1095
- Multi-frequency approach
 Efficient two-dimensional magnetotellurics modelling using implicitly restarted Lanczos method 595
- Multi-linear regression
 Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Multi-model ensemble
 Multi-model ensemble schemes for predicting northeast moonsoon rainfall over peninsular India 795
- Multi-model ensemble (MME)
 Experimental real-time multi-model ensemble (MME) prediction of rainfall during monsoon 2008: Large-scale medium-range aspects 27
- Multi-step linear regression
 Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Multivariate statistical analysis
 Environmental magnetic and geochemical characteristics of Chennai coastal sediments, Bay of Bengal, India 885
- Mylleim granitoids
 Geochemistry and petrogenesis of Neoproterozoic Myllem granitoids, Meghalaya Plateau, northeastern India 459
- N. cf. fichteli* Michelotti
 Saddle-shaped reticulate *Nummulites* from Early Oligocene rocks of Khari area, SW Kutch, India 263
- Nalgonda
 Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India 911
- Narcondam island
 Microtextural and mineral chemical analyses of andesite–dacite from Barren and Narcondam islands: Evidences for magma mixing and petrological implications 145
- Natural hazards
 Present day relief-shaping systems acting on the southern slope of the Făgăraș Mountains (Romania) 1023
- Neoproterozoic
 Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the elhi Fold Belt, NW India 627
- Neotectonics
 Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India 979
- Nepheline syenite minor intrusion
 Melanite garnet-bearing nepheline syenite minor intrusion in Mawpyut ultramafic–mafic complex, Jaintia Hills, Meghalaya 1033

- New particle formation
 New particle formation by ion-induced nucleation during dissipation stage of thunderstorm 843
- New-particle formation at Antarctica
 The ion–aerosol interactions from the ion mobility and aerosol particle size distribution measurements on January 17 and February 18, 2005 at Maitri, Antarctica – A case study 735
- Nitrate
 Measurement of marine productivity using ^{15}N and ^{13}C tracers: Some methodological aspects 99
- Nival processes
 Present day relief-shaping systems acting on the southern slope of the Făgăraş Mountains (Romania) 1023
- Normalized differential vegetation index (NDVI)
 Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423
- North Almora Thrust
 Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- North Atlantic passive continental margins
 Elastic thickness estimates at northeast passive margin of North America and its implications 447
- Northeast monsoon
 Analysis on MM5 predictions at Sriharikota during northeast monsoon 2008 755
 Multi-model ensemble schemes for predicting northeast monsoon rainfall over peninsular India 795
- Northeastern India
 Geochemistry and petrogenesis of Neoproterozoic Myllem granitoids, Meghalaya Plateau, northeastern India 459
- Northeastern Indian Ocean
 Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- Northwestern Oklahoma
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Nucleation
 Volatile properties of atmospheric aerosols during nucleation events at Pune, India 347
- Numerical modelling
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- NW India
 Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the Delhi Fold Belt, NW India 627
- Oceanography
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Okha Shell Limestone Member
 Discontinuity surfaces and event stratigraphy of Okha Shell Limestone Member: Implications for Holocene sea level changes, western India 723
- Oligocene
 Saddle-shaped reticulate *Nummulites* from Early Oligocene rocks of Khari area, SW Kutch, India 263
- Optical luminescence dating
 Subsurface signatures and timing of extreme wave events along the southeast Indian coast 873
- Outgoing long-wave radiation (OLR)
 Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Oxygen minimum zone
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Ozone depletion
 Long-term ozone decline and its effect on night airglow intensity of Li 6708 Å at Varanasi (25°N , 83°E) and Halley Bay (76°S , 27°W) 291
- Palaeoclimate
 Study of fossil wood from the Middle–Late Miocene sediments of Dhemaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Palaeoenvironmental significance
 Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127
- Paleochannel
 Paleochannel and paleohydrology of a Middle Siwalik (Pliocene) fluvial system, northern India 531
- Paleohydrology
 Paleochannel and paleohydrology of a Middle Siwalik (Pliocene) fluvial system, northern India 531
- Paleostress
 Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- Palmer Drought Severity Index (PDSI)
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713
- Palynofacies
 Palynofacies characterization for hydrocarbon source rock evaluation in the Subathu Formation of Marhigat, Sirmaur district, Himachal Pradesh 933
- Palynology
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Panchet formation
 Palaeoseismicity in relation to basin tectonics as revealed from soft-sediment deformation structures of the Lower Triassic Panchet formation, Raniganj basin (Damodar valley), eastern India 167
- Participation
 A decision support system-based procedure for evaluation and monitoring of projected areas sustainability for the Mediterranean region 949
- Pegmatoidal granite
 Characteristics of pegmatoidal granite exposed near Bayalan, Ajmer district, Rajasthan 617
- Peraluminous
 Geochemistry and petrogenesis of Neoproterozoic Myllem granitoids, Meghalaya Plateau, northeastern India 459

- Phacolith
 Characteristics of pegmatoidal granite exposed near Bayalan, Ajmer district, Rajasthan 617
- Phulad ophiolite
 Mafic rocks from Erinpura gneiss terrane in the Sirohi region: Possible ocean-floor remnants in the foreland of the Delhi Fold Belt, NW India 627
- Physical geography
 Present day relief-shaping systems acting on the southern slope of the Făgăraș Mountains (Romania) 1023
- Phytoplankton
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
- Phytoplankton bloom
 Identification of non-indigenous phytoplankton species dominated bloom off Goa using inverted microscopy and pigment (HPLC) analysis 1145
- Pigment composition
 Identification of non-indigenous phytoplankton species dominated bloom off Goa using inverted microscopy and pigment (HPLC) analysis 1145
- Planktic foraminifera
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Plant fossil
 Carbon isotopic composition of fossil leaves from the Early Cretaceous sediments of western India 703
- Pleistocene
 Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
- Pliocene
 Paleochannel and paleohydrology of a Middle Siwalik (Pliocene) fluvial system, northern India 531
- Pollution load index
 Environmental magnetic and geochemical characteristics of Chennai coastal sediments, Bay of Bengal, India 885
- Post-monsoon
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713
- Post-orogenic
 Geochemistry and petrogenesis of Neoproterozoic Myllem granitoids, Meghalaya Plateau, northeastern India 459
- Pothole
 Evaluation of the role of rock properties in the development of potholes: A case study of the Indrayani knick-point, Maharashtra 157
- Prasincoxanthin
 Identification of non-indigenous phytoplankton species dominated bloom off Goa using inverted microscopy and pigment (HPLC) analysis 1145
- Precipitation
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713
- Prediction
 Multi-model ensemble schemes for predicting northeast monsoon rainfall over peninsular India 795
 Nonlinear genetic-based simulation of soil shear strength parameters 1001
- Primary production
 Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
- Principal component regression
 Multi-model ensemble schemes for predicting northeast monsoon rainfall over peninsular India 795
- Process oriented modelling
 Development of the negative gravity anomaly of the 85°E Ridge, northeastern Indian Ocean – A process oriented modelling approach 605
- Productivity
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Protected area management
 A decision support system-based procedure for evaluation and monitoring of protected areas sustainability for the Mediterranean region 949
- Pteropod
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Pyrite
 Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Quartz
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Quasi-biennial oscillation (QBO)
 Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Quaternary
 Late Quaternary changes in surface productivity and oxygen minimum zone (OMZ) in the northwestern Arabian Sea: Micropaleontologic and sedimentary record at ODP site 728A 113
- Radiative transfer
 Radiative transfer simulations for the MADRAS imager of Megha-Tropiques 1
- Radio occultation
 Atmospheric stability index using radio occultation refractivity profiles 311
- Rainfall
 Impact of additional surface observation network on short range weather forecast during summer monsoon 2008 over Indian subcontinent 53
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
 Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
 Multi-model ensemble schemes for predicting northeast monsoon rainfall over peninsular India 795

- Rainfall forecast
 Experimental real-time multi-model ensemble (MME) prediction of rainfall during monsoon 2008: Large-scale medium-range aspects 27
- Rainfall nowcasting
 Atmospheric stability index using radio occultation refractivity profiles 311
- Ramagiri
 Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Raniganj
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Rare earth elements
 Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Recharge variability
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Regional climate model
 Role of dynamics in the advection of aerosols over the Arabian Sea along the west coast of peninsular India during pre-monsoon season: A case study based on satellite data and regional climate model 269
- Relative humidity
 Uncertainties in downscaled relative humidity for a semi-arid region in India 375
- Remote sensing
 Geospatial tools for assessing land degradation in Budgam district, Kashmir Himalaya, India 423
- Remote sensing and monsoons
 Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- Resistivity
 Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India 85
- Reticulate *Nummulites*
 Saddle-shaped reticulate *Nummulites* from Early Oligocene rocks of Khari area, SW Kutch, India 263
- Retrieval
 Atmospheric correction for sea surface temperature retrieval from single thermal channel radiometer data onboard Kalpana satellite 337
- Road dust
 Anthropogenic and impact spherules: Morphological similarity and chemical distinction – A case study from India and its implications 1043
- Rock mass strength
 Evaluation of the role of rock properties in the development of potholes: A case study of the Indrayani knickpoint, Maharashtra 157
- Romania
 Present day relief-shaping systems acting on the southern slope of the Făgăraş Mountains (Romania) 1023
- RTK-GPS
 Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Run-off
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Salinity
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
 Impact of Ganges–Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992–1999 period 859
- Sand and clay mineralogy
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Saturation index (SI)
 Significance of saturation index of certain clay minerals in shallow coastal groundwater, in and around Kalpakkam, Tamil Nadu, India 897
- Schmidt rock hammer
 Evaluation of the role of rock properties in the development of potholes: A case study of the Indrayani knickpoint, Maharashtra 157
- Sea surface temperature
 Atmospheric correction for sea surface temperature retrieval from single thermal channel radiometer data onboard Kalpana satellite 337
- Seismites
 Palaeoseismicity in relation to basin tectonics as revealed from soft-sediment deformation structures of the Lower Triassic Panchet formation, Raniganj basin (Damodar valley), eastern India 167
- Semivariogram
 Application and evaluation of universal kriging for optimal contouring of groundwater levels 413
 Determining the optimum cell size of digital elevation model for hydrologic application 573
- Shaly sandstone
 Influence of shear velocity on frictional characteristics of rock surface 183
- Shearing along kink planes
 Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- Shorea robusta* (sal)
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Short-term variations
 Meso-scale atmospheric events promote phytoplankton blooms in the coastal Bay of Bengal 773
- Simulation
 Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- Singhbhum
 Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Singhora Group
 1420 Ma diabasic intrusives from the Mesoproterozoic Singhora Group, Chhattisgarh Supergroup, India: Implications towards non-plume intrusive activity 223

- Single value decomposition
 Multi-model ensemble schemes for predicting northeast monsoon rainfall over peninsular India 795
- Sink
 Determining the optimum cell size of digital elevation model for hydrologic application 573
- Siwalik
 Paleochannel and paleohydrology of a Middle Siwalik (Pliocene) fluvial system, northern India 531
- Slab detachment
 Slab detachment of subducted Indo-Australian plate beneath Sunda arc, Indonesia 193
- Sm–Nd isotope dating
 Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Snow
 Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321
- Soft-sediment deformation structures
 Palaeoseismicity in relation to basin tectonics as revealed from soft-sediment deformation structures of the Lower Triassic Panchet formation, Raniganj basin (Damodar valley), eastern India 167
- Soil
 Spectral characterization of soil and coal contamination on snow reflectance using hyperspectral analysis 321
- Soil moisture modelling
 Modelling soil moisture under different land covers in a sub-humid environment of Western Ghats, India 387
- Soil physical properties
 Nonlinear genetic-based simulation of soil shear strength parameters 1001
- Soil shear strength parameters
 Nonlinear genetic-based simulation of soil shear strength parameters 1001
- Solar cycle
 Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Source rock
 Palynofacies characterization for hydrocarbon source rock evaluation in the Subathu Formation of Marhighat, Sirmaur district, Himachal Pradesh 933
- South Delhi Fold Belt
 Characteristics of pegmatoidal granite exposed near Bayalan, Ajmer district, Rajasthan 617
- Spatial anisotropy
 Modelling spatial anisotropy of gold concentration data using GIS-based interpolated maps and variogram analysis: Implications for structural control of mineralization 583
- Species diversity
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
- Spherule
 Anthropogenic and impact spherules: Morphological similarity and chemical distinction – A case study from India and its implications 1043
- Springs
 Geochemical characterization of surface water and spring water in SE Kashmir Valley, western Himalaya: Implications to water–rock interaction 921
- Srinagar–Garhwal
 Kink bands in thrust regime: Examples from Srinagar–Garhwal area, Uttarakhand, India 939
- SST
 Anomalous behaviour of the Indian summer monsoon 2009 783
- Stable isotopes
 A comparative study on isotopic composition of precipitation in wet tropic and semi-arid stations across southern India 1085
- State variable
 Influence of shear velocity on frictional characteristics of rock surface 183
- Stick-slip friction
 Influence of shear velocity on frictional characteristics of rock surface 183
- Stratigraphy
 Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India 979
- Structural control
 Modelling spatial anisotropy of gold concentration data using GIS-based interpolated maps and variogram analysis: Implications for structural control of mineralization 583
- Subathu Formation
 Palynofacies characterization for hydrocarbon source rock evaluation in the Subathu Formation of Marhighat, Sirmaur district, Himachal Pradesh 933
- Subduction zone
 Slab detachment of subducted Indo-Australian plate beneath Sunda arc, Indonesia 193
- Sulphur isotope
 Chemical and sulphur isotope compositions of pyrite in the Jaduguda U (–Cu–Fe) deposit, Singhbhum shear zone, eastern India: Implications for sulphide mineralization 475
- Sunda arc
 Slab detachment of subducted Indo-Australian plate beneath Sunda arc, Indonesia 193
- Surface inversion
 Variability in surface inversion characteristics over India in winter during the recent decades 73
- Sustainable development
 Threat of land subsidence in and around Kolkata City and East Kolkata Wetlands, West Bengal, India 435
- Talchir
 Palynological correlation of coal-bearing horizons in Gundala area, Godavari Graben, India 663
- Taphofacies
 Discontinuity surfaces and event stratigraphy of Okha Shell Limestone Member: Implications for Holocene sea level changes, western India 723
- Tectonic sliver
 Petrography, geochemistry and regional significance of crystalline klippen in the Garhwal Lesser Himalaya, India 489
- Temperature
 Tree-ring variation in teak (*Tectona grandis* L.) from Allapalli, Maharashtra in relation to moisture and Palmer Drought Severity Index, India 713

- Temperature structure parameter
 Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- Tephra
 Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
- Thermal alteration index
 Palynofacies characterization for hydrocarbon source rock evaluation in the Subathu Formation of Marhighat, Sirmaur district, Himachal Pradesh 933
- Thermal analysis
 Volatile properties of atmospheric aerosols during nucleation events at Pune, India 347
- Thermal infrared
 Simulation of at-sensor radiance over land for proposed thermal channels of Imager payload onboard INSAT-3D satellite using MODTRAN model 19
- Threat score
 Impact of additional surface observation network on short range weather forecast during summer monsoon 2008 over Indian subcontinent 53
- Tide
 Fine-scale responses of phytoplankton to freshwater influx in a tropical monsoonal estuary following the onset of southwest monsoon 545
- Time-series models
 Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models 1067
- Tipam Group
 Study of fossil wood from the Middle–Late Miocene sediments of Dhemaaji and Lakhimpur districts of Assam, India and its palaeoecological and palaeophytogeographical implications 681
- Titanite
 Geochemical and Sm–Nd isotopic study of titanite from granitoid rocks of the eastern Dharwar craton, southern India 237
- Toba
 Methods for determination of the age of Pleistocene tephra, derived from eruption of Toba, in central India 503
- Torrential processes
 Present day relief-shaping systems acting on the southern slope of the Făgăraş Mountains (Romania) 1023
- Total electron content
 GPS based TEC measurements for a period August–2008–December 2009 near the northern crest of Indian equatorial ionospheric anomaly region 851
- Total Station
 Evaluation of RTK-GPS and Total Station for applications in land surveying 215
- Trace elements
 Assessing variability of water quality in a groundwater-fed perennial lake of Kashmir Himalayas using linear geostatistics 399
- Trace fossils
 Trace fossils from Bhuban Formation, Surma Group (Lower to Middle Miocene) of Mizoram India and their palaeoenvironmental significance 1127
- Trace metals
 Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India 85
- Trench migration
 Slab detachment of subducted Indo-Australian plate beneath Sunda arc, Indonesia 193
- Tribometer
 Influence of shear velocity on frictional characteristics of rock surface 183
- TRMM mission
 Radiative transfer simulations for the MADRAS imager of Megha-Tropiques 1
- TRMM/TMI
 Atmospheric correction for sea surface temperature retrieval from single thermal channel radiometer data onboard Kalpana satellite 337
- Tropical cyclone
 Analysis on MM5 predictions at Sriharikota during northeast monsoon 2008 755
- Tropopause
 Long-term variations in outgoing long-wave radiation (OLR), convective available potential energy (CAPE) and temperature in the tropopause region over India 807
- Turbulence
 Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- Ultrafine particles
 Atmospheric ultrafine aerosol number concentration and its correlation with vehicular flow at two sites in the western Himalayan region: Kullu-Manali, India 281
- Universal kriging
 Application and evaluation of universal kriging for optimal contouring of groundwater levels 413
- Uphalda gneisses
 Petrography, geochemistry and regional significance of crystalline klippen in the Garhwal Lesser Himalaya, India 489
- Uranium
 Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India 911
- Urban area
 Study of vertical wind profiles in an urban area with complex terrain (Tehran) 825
- Urea
 Measurement of marine productivity using ^{15}N and ^{13}C tracers: Some methodological aspects 99
- US Southern Great Plains
 Modelling the response of an alluvial aquifer to anthropogenic and recharge stresses in the United States Southern Great Plains 557
- Variable coefficients
 One-dimensional unsteady solute transport along unsteady flow through inhomogeneous medium 205
- Variography
 Modelling spatial anisotropy of gold concentration data using GIS-based interpolated maps and variogram analysis: Implications for structural control of mineralization 583
- Vegetation index
 Development of regional wheat VI-LAI models using Resourcesat-1 AWiFS data 1113
- Vehicular movement
 Atmospheric ultrafine aerosol number concentration and its correlation with vehicular flow at two sites in the western Himalayan region: Kullu-Manali, India 281

- Vermiculite
 Sand and clay mineralogy of sal forest soils of the Doon Siwalik Himalayas 123
- Volatile compounds
 Volatile properties of atmospheric aerosols during nucleation events at Pune, India 347
- Volatility
 Volatile properties of atmospheric aerosols during nucleation events at Pune, India 347
- Water vapour fields
 Atmospheric correction for sea surface temperature retrieval from single thermal channel radiometer data onboard Kalpana satellite 337
- Wave propagation
 GPS based TEC measurements for a period August 2008–December 2009 near the northern crest of Indian equatorial ionospheric anomaly region 851
- Western Ghats
 Modelling soil moisture under different land covers in a sub-humid environment of Western Ghats, India 387
- Wind convergence
 Role of dynamics in the advection of aerosols over the Arabian Sea along the west coast of peninsular India during pre-monsoon season: A case study based on satellite data and regional climate model 269
- Wind profile
 Study of vertical wind profiles in an urban area with complex terrain (Tehran) 825
- Winds and monsoon
 Doppler SODAR observations of the temperature structure parameter during monsoon season over a tropical rural station, Gadanki 65
- WRF model and 3D-Var
 Impact of additional surface observation network on short range weather forecast during summer monsoon 2008 over Indian subcontinent 53
- Zircon
 Pb–Pb zircon ages of Archaean metasediments and gneisses from the Dharwar craton, southern India: Implications for the antiquity of the eastern Dharwar craton 643