

SUBJECT INDEX

- 1979–1981
 Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
- $\delta^{13}\text{C}$
 Isotopic and sedimentological clues to productivity change in late Riphean Sea: A case study from two intracratonic basins of India 379
- accumulation rates
 Records of climatic changes and volcanic events in an ice core from Central Dronning Maud Land (East Antarctica) during the past century 39
- ADEOS-I
 Variability of photosynthetic pigments in the Colombian Pacific Ocean and its relationship with the wind field using ADEOS-I data 227
- Adriatic Sea
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- advective velocity
 Retrieval of sea surface velocities using sequential Ocean Colour Monitor (OCM) data 189
- aerosol optical depth
 Detection of marine aerosols with IRS-Ocean Colour Monitor 425
- aerosol plumes
 Detection of marine aerosols with IRS-Ocean Colour Monitor 425
- air-sea exchange
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315
- altimeter
 Wind-driven circulation in the subarctic north Pacific using altimeter data 267
- aluminium-epoxy composite
 Reflection of plane waves from free surface of a microstretch elastic solid 29
- anisotropic
 Response of an anisotropic liquid-saturated porous medium due to two dimensional sources 143
- anisotropic medium
 Reflection of P and SV waves at the free surface of a monoclinic elastic half-space 401
- Antarctica
 Records of climatic changes and volcanic events in an ice core from Central Dronning Maud Land (East Antarctica) during the past century 39
 Velocity of small-scale auroral ionospheric current systems over Indian Antarctic station Maitri 51
- Arabian Sea
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- Atlantis Bank
 Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- atmospheric correction
 Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: examples from Florida Bay and Florida Shelf 197
- auto-correlation
 Auto-correlation analysis of ocean surface wind vectors 297
- basalt
 Comments on ‘Generation of Deccan Trap magmas’ by Gautam Sen 483
- ^{10}Be and ^{36}Cl
 Records of climatic changes and volcanic events in an ice core from Central Dronning Maud Land (East Antarctica) during the past century 39
- breaking waves
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315
- CDOM
 Estimation of colored dissolved organic matter and salinity fields in case 2 waters using Sea WiFS: examples from Florida Bay and Florida Shelf 197
- COADS (Comprehensive Ocean Atmosphere Data)
 Characteristics of low frequency oscillations of the atmosphere-ocean coupling 413
- CZCS
 Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- chlorophyll
 Variability of photosynthetic pigments in the Colombian Pacific Ocean and its relationship with the wind field using ADEOS-I data 227
- chlorophyll a
 Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: examples from Florida Bay and Florida Shelf 197
- climate
 Records of climatic changes and volcanic events in an ice core from Central Dronning Maud Land (East Antarctica) during the past century 39
- co-registration
 Retrieval of sea surface velocities using sequential Ocean Colour Monitor (OCM) data 189

- coastal upwelling
 Mesoscale modeling study of the oceanographic conditions off the southwest coast of India 321
- coefficient
 Vertical diffuse attenuation coefficient (K_d) based optical classification of IRS-P3 MOS-B satellite ocean colour data 237
- Colombia
 Variability of photosynthetic pigments in the Colombian Pacific Ocean and its relationship with the wind field using ADEOS-I data 227
- covering distance
 Multidimensional scaling technique for analysis of magnetic storms at Indian observatories 459
- Cretaceous-Tertiary Boundary
 Age and duration of the Deccan Traps, India: A review of radiometric and paleomagnetic constraints 115
- crustal structure
 Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- data buoy
 Auto-correlation analysis of ocean surface wind vectors 297
- Deccan volcanism
 Age and duration of the Deccan Traps, India: A review of radiometric and paleomagnetic constraints 115
- Deccan
 Comments on 'Generation of Deccan Trap magmas' by Gautam Sen 483
 Reply to the comments by A D Shukla and P N Shukla 493
- Deccan trap
 Giant Plagioclase Basalts, eruption rate versus time: Response to Sheth's comments and some additional thoughts 487
- deformation zone
 Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- diapiric structure
 Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- differential loading stresses
 Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- diffuse attenuation coefficient
 Vertical diffuse attenuation coefficient (K_d) based optical classification of IRS-P3 MOS-B satellite ocean colour data 237
- diffusive plate boundary
 Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- diffusivity
 Temperature mapping, thermal diffusivity and subsoil heat flux at Kariavattom of Kerala 79
- Drill Mole 1105 A
 Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- eigen-value
 Mechanical sources in orthotropic micropolar continua 133
- eigenvalue
 Response of an anisotropic liquid-saturated porous medium due to two dimensional sources 143
- elastic waves
 Reflection of P and SV waves at the free surface of a monoclinic elastic half-space 401
- electrical conductivity measurements (ECM)
 Records of climatic changes and volcanic events in an ice core from Central Dronning Maud Land (East Antarctica) during the past century 39
- energy ratios
 Reflection of plane waves from free surface of a microstretch elastic solid 29
- EOF analyses
 Wind-driven circulation in the subarctic north Pacific using altimeter data 267
- equatorial Pacific
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model - An example from Arabian Sea and equatorial Pacific 339
- eruption
 Comments on 'Generation of Deccan Trap magmas' by Gautam Sen 483
- eruption duration
 Giant Plagioclase Basalts, eruption rate versus time: Response to Sheth's comments and some additional thoughts 487
- ESR dating
 Electron spin resonance dating of fault gouge from Desamangalam, Kerala: Evidence for Quaternary movement in Palghat gap shear zone 103
- Eurasian snow cover
 Study on the sensitivity of the vertical cooling (heat sink) on the displacements of the mid-tropospheric ridge using a linear model 437
- FFT (Fast Fourier Transformation)
 Characteristics of low frequency oscillations of the atmosphere-ocean coupling 413
- fault gouge
 Electron spin resonance dating of fault gouge from Desamangalam, Kerala: Evidence for Quaternary movement in Palghat gap shear zone 103
- field-aligned currents
 Velocity of small-scale auroral ionospheric current systems over Indian Antarctic station Maitri 51
- Fourier and Laplace transforms
 Mechanical sources in orthotropic micropolar continua 133
- GDAS
 Assimilation of IRS-P4 (MSMR) meteorological data in the NCMRWF global data assimilation system 351
- Gabbros
 Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- gas transfer coefficient
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315

- geochronology
 Age and duration of the Deccan Traps, India:
 A review of radiometric and paleomagnetic constraints 115
- geomagnetic pulsations
 Velocity of small-scale auroral ionospheric current systems over Indian Antarctic station Maitri 51
- geophysical products
 Intercomparison of IRS-P4-MSMR derived geophysical products with DMSP-SSM/I and TRMM-TMI finished products 247
- geostrophic current
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- Giant plagioclase basalts
 Giant Plagioclase Basalts, eruption rate versus time: Response to Sheth's comments and some additional thoughts 487
- granite-migmatite
 Grenvillian thermal event and remnant charnockite: Isotopic evidence from the Chilka Lake granulite-migmatite suite in the Eastern Ghats belt, India 391
- Grenvillian event
 Grenvillian thermal event and remnant charnockite: Isotopic evidence from the Chilka Lake granulite-migmatite suite in the Eastern Ghats belt, India 391
- heat budget components
 Meteorological fields variability over the Indian seas in pre and summer monsoon months during extreme monsoon seasons 365
- heat sources and heat sinks
 Study on the sensitivity of the vertical cooling (heat sink) on the displacements of the mid-tropospheric ridge using a linear model 437
- IRS-P3 MOS-B data
 Vertical diffuse attenuation coefficient (K_d) based optical classification of IRS-P3 MOS-B satellite ocean colour data 237
- IRS-P4
 Rain rate measurements over global oceans from IRS-P4 MSMR 257
- IRS-P4 OCM
 Retrieval of sea surface velocities using sequential Ocean Colour Monitor (OCM) data 189
 Detection of marine aerosols with IRS-Ocean Colour Monitor 425
- impact
 Assimilation of IRS-P4 (MSMR) meteorological data in the NCMRWF global data assimilation system 351
- India
 Mesoscale modeling study of the oceanographic conditions off the southwest coast of India 321
- Indian monsoon rainfall
 Momentum transport of wave zero during March: A possible predictor for the Indian summer monsoon 153
- in situ* chlorophyll
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- intracratonic
 Isotopic and sedimentological clues to productivity change in late Riphean Sea: A case study from two intracratonic basins of India 379
- iridium
 Reply to the comments by A D Shukla and P N Shukla 493
- isopycnal model
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- JGOFS
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- Killari earthquake aftershocks
 Simultaneous inversion of the aftershock data of the 1993 killari earthquake in Peninsular India and its seismotectonic implications 1
- LHF (Surface Latent Heat Flux)
 Characteristics of low frequency oscillations of the atmosphere-ocean coupling 413
- Laccadive Sea
 Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
- Lakshadweep Sea
 Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
- lamenta
 Reply to the comments by A D Shukla and P N Shukla 493
- Laplace and Fourier transforms
 Response of an anisotropic liquid-saturated porous medium due to two dimensional sources 143
- Late Riphean
 Isotopic and sedimentological clues to productivity change in late Riphean Sea: A case study from two intracratonic basins of India 379
- lava
 Comments on 'Generation of Deccan Trap magmas' by Gautam Sen 483
- liquid-saturated porous
 Response of an anisotropic liquid-saturated porous medium due to two dimensional sources 143
- MJO (Madden Julian Oscillation)
 Characteristics of low frequency oscillations of the atmosphere-ocean coupling 413
- MSMR
 Intercomparison of IRS-P4-MSMR derived geophysical products with DMSP-SSM/I and TRMM-TMI finished products 247
 Rain rate measurements over global oceans from IRS-P4 MSMR 257
- MSMR data
 Assimilation of IRS-P4 (MSMR) meteorological data in the NCMRWF global data assimilation system 351
- magneto-stratigraphy
 Age and duration of the Deccan Traps, India: A review of radiometric and paleomagnetic constraints 115
- marine aerosols
 Detection of marine aerosols with IRS-Ocean Colour Monitor 425

- maximum cross-correlation
 Retrieval of sea surface velocities using sequential Ocean Colour Monitor (OCM) data 189
- Mediterranean
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- mesoscale modeling
 Mesoscale modeling study of the oceanographic conditions off the southwest coast of India 321
- micropolar
 Mechanical sources in orthotropic micropolar continua 133
- microstretch elastic solid
 Reflection of plane waves from free surface of a microstretch elastic solid 29
- microwave brightness temperature
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315
- microwave emissivity
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315
- microwave radiometer
 Auto-correlation analysis of ocean surface wind vectors 297
- mid-tropospheric ridge
 Study on the sensitivity of the vertical cooling (heat sink) on the displacements of the mid-tropospheric ridge using a linear model 437
- mixed-layer
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- mobile auroral current systems
 Velocity of small-scale auroral ionospheric current systems over Indian Antarctic station Maitri 51
- momentum transport
 Momentum transport of wave zero during March: A possible predictor for the Indian summer monsoon 153
- monoclinic elastic media
 Static deformation of two welded monoclinic elastic half-spaces due to a long inclined strike-slip fault 125
- monoclinic half-space
 Reflection of P and SV waves at the free surface of a monoclinic elastic half-space 401
- Monsoon Low Level Jet (MLLJ)
 Characteristics of monsoon low level jet (MLLJ) as an index of monsoon activity 453
- multi dimensional scaling
 Multidimensional scaling technique for analysis of magnetic storms at Indian observatories 459
- NCEP (National Centre for Environmental Prediction)
 Characteristics of low frequency oscillations of the atmosphere-ocean coupling 413
- NCEP reanalysis
 Meteorological fields variability over the Indian seas in pre and summer monsoon months during extreme monsoon seasons 365
- neotectonism
 Electron spin resonance dating of fault gouge from Desamangalam, Kerala: Evidence for Quaternary movement in Palghat gap shear zone 103
- normal modes
 Study on the sensitivity of the vertical cooling (heat sink) on the displacements of the mid-tropospheric ridge using a linear model 437
- ODP
 Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- Ocean colour monitor
 Detection of marine aerosols with IRS-Ocean Colour Monitor 425
- ocean eddies
 Oceanic eddies in synthetic aperture radar images 281
- oceanography
 Primary production in the Sulu Sea 209
- optical classification
 Vertical diffuse attenuation coefficient (K_d) based optical classification of IRS-P3 MOS-B satellite ocean colour data 237
- organic productivity
 Isotopic and sedimentological clues to productivity change in late Riphean Sea: A case study from two intracratonic basins of India 379
- orthotropic
 Mechanical sources in orthotropic micropolar continua 133
- PR
 Rain rate measurements over global oceans from IRS-P4 MSMR 257
- Pacific
 Variability of photosynthetic pigments in the Colombian Pacific Ocean and its relationship with the wind field using ADEOS-I data 227
- paleomagnetism
 Reply to the comments by A D Shukla and P N Shukla 493
- paleoseismology
 Electron spin resonance dating of fault gouge from Desamangalam, Kerala: Evidence for Quaternary movement in Palghat gap shear zone 103
- Palghat gap
 Electron spin resonance dating of fault gouge from Desamangalam, Kerala: Evidence for Quaternary movement in Palghat gap shear zone 103
- phytoplankton bloom
 Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- phytoplankton pigment
 Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
- pigment concentrations
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- primary production
 Primary production in the Sulu Sea 209
- provenance and environment
 Trace element and isotopic studies of Permo-Carboniferous carbonate nodules from Talchir sediments of peninsular India: Environmental and provenance implications 87

- REE and trace elements
Trace element and isotopic studies of Permo-Carboniferous carbonate nodules from Talchir sediments of peninsular India: Environmental and provenance implications 87
- radiation-transfer
Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model – An example from Arabian Sea and equatorial Pacific 339
- reflection
Reflection of plane waves from free surface of a microstretch elastic solid 29
- reflection coefficients
Reflection of P and SV waves at the free surface of a monoclinic elastic half-space 401
- remnant charnockite
Grenvillian thermal event and remnant charnockite: Isotopic evidence from the Chilka Lake granulite-migmatite suite in the Eastern Ghats belt, India 391
- remote sensing
Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: examples from Florida Bay and Florida Shelf 197
Primary production in the Sulu Sea 209
- rhyolites
Reply to the comments by A D Shukla and P N Shukla 493
- roughness length
Study of the relationship between non-dimensional roughness length and wave age, effected by wave directionality 305
- SAR images
Oceanic eddies in synthetic aperture radar images 281
- SODAR
Thermal Internal Boundary Layer characteristics at a tropical coastal site as observed by a mini-SODAR under varying synoptic conditions 63
- SSM/I
Intercomparison of IRS-P4-MSMR derived geophysical products with DMSP-SSM/I and TRMM-TMI finished products 247
- SeaWiFS
Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: examples from Florida Bay and Florida Shelf 197
- salinity
Estimation of colored dissolved organic matter and salinity fields in case 2 waters using SeaWiFS: examples from Florida Bay and Florida Shelf 197
- sea breeze
Thermal Internal Boundary Layer characteristics at a tropical coastal site as observed by a mini-SODAR under varying synoptic conditions 63
- seasons
Seasonal and interannual variability of phytoplankton pigment in the Laccadive (Lakshadweep) Sea as observed by the Coastal Zone Color Scanner 163
- Serpentinites
Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- serpentinized peridotites
Formation of diapiric structure in the deformation zone, central Indian Ocean: A model from gravity and seismic reflection data 17
- simultaneous inversion
Simultaneous inversion of the aftershock data of the 1993 killari earthquake in Peninsular India and its seismotectonic implications 1
- soil heat flux
Temperature mapping, thermal diffusivity and subsoil heat flux at Kariavattom of Kerala 79
- southwest Indian monsoon
Study on the sensitivity of the vertical cooling (heat sink) on the displacements of the mid-tropospheric ridge using a linear model 437
- Southwest Indian Ridge
Magnetic rock properties of the gabbros from the ODP Drill Hole 1105 A of the Atlantis Bank, Southwest Indian Ridge 467
- stable continental region
Simultaneous inversion of the aftershock data of the 1993 killari earthquake in Peninsular India and its seismotectonic implications 1
- stable isotopes
Trace element and isotopic studies of Permo-Carboniferous carbonate nodules from Talchir sediments of peninsular India: Environmental and provenance implications 87
- static deformation
Static deformation of two welded monoclinic elastic half-spaces due to a long inclined strike-slip fault 125
- storm time range
Multidimensional scaling technique for analysis of magnetic storms at Indian observatories 459
- strike-slip fault
Static deformation of two welded monoclinic elastic half-spaces due to a long inclined strike-slip fault 125
- student's t-test
Meteorological fields variability over the Indian seas in pre and summer monsoon months during extreme monsoon seasons 365
- subarctic north Pacific
Wind-driven circulation in the subarctic north Pacific using altimeter data 267
- Sulu Sea
Primary production in the Sulu Sea 209
- summer monsoon
Meteorological fields variability over the Indian seas in pre and summer monsoon months during extreme monsoon seasons 365
- surface wind speed
Auto-correlation analysis of ocean surface wind vectors 297
- suspended sediment concentration
Retrieval of sea surface velocities using sequential Ocean Colour Monitor (OCM) data 189
- synthetic aperture radar (SAR)
Oceanic eddies in synthetic aperture radar images 281
- TMI
Intercomparison of IRS-P4-MSMR derived geophysical products with DMSP-SSM/I and TRMM-TMI finished products 247
Rain rate measurements over global oceans from IRS-P4 MSMR 257

- TRMM
 Rain rate measurements over global oceans from IRS-P4 MSMR 257
- Talchir nodules
 Trace element and isotopic studies of Permo-Carboniferous carbonate nodules from Talchir sediments of peninsular India: Environmental and provenance implications 87
- Thermal Internal Boundary Layer
 Thermal Internal Boundary Layer characteristics at a tropical coastal site as observed by a mini-SODAR under varying synoptic conditions 63
- thermal wave
 Temperature mapping, thermal diffusivity and subsoil heat flux at Kariavattom of Kerala 79
- time series
 Auto-correlation analysis of ocean surface wind vectors 297
- time-dependent wind-driven circulation
 Wind-driven circulation in the subarctic north Pacific using altimeter data 267
- total precipitable water content
 Assimilation of IRS-P4 (MSMR) meteorological data in the NCMRWF global data assimilation system 351
- transparency
 Seasonal and interannual variations in pigments in the Adriatic Sea 215
- turbulence
 Thermal Internal Boundary Layer characteristics at a tropical coastal site as observed by a mini-SODAR under varying synoptic conditions 63
 Characteristics of monsoon low level jet (MLLJ) as an index of monsoon activity 453
- volcanism
 Comments on 'Generation of Deccan Trap magmas' by Gautam Sen 483
- vortical motions
 Oceanic eddies in synthetic aperture radar images 281
- wave age
 Study of the relationship between non-dimensional roughness length and wave age, effected by wave directionality 305
- welded half-spaces
 Static deformation of two welded monoclinic elastic half-spaces due to a long inclined strike-slip fault 125
- whitecaps
 Oceanic whitecaps: Sea surface features detectable via satellite that are indicators of the magnitude of the air-sea gas transfer coefficient 315
- wind jet
 Variability of photosynthetic pigments in the Colombian Pacific Ocean and its relationship with the wind field using ADEOS-I data 227
- wind shear
 Characteristics of monsoon low level jet (MLLJ) as an index of monsoon activity 453
- wind speed
 Assimilation of IRS-P4 (MSMR) meteorological data in the NCMRWF global data assimilation system 351
- wind wave
 Study of the relationship between non-dimensional roughness length and wave age, effected by wave directionality 305
- zircon population
 Grenvillian thermal event and remnant charnockite: Isotopic evidence from the Chilka Lake granulite-migmatite suite in the Eastern Ghats belt, India 391
- zonal waves
 Momentum transport of wave zero during March: A possible predictor for the Indian summer monsoon 153
- zone of westerlies
 Momentum transport of wave zero during March: A possible predictor for the Indian summer monsoon 153