

ELISABETTA ERBA - CV

I, THE UNDERSIGNED, AWARE OF THE PROVISIONS OF ARTICLE 76 OF THE PRESIDENTIAL DECREE 28 DECEMBER 2000 NO. 445, ON THE CRIMINAL LIABILITY WHICH MAY BE ENCOUNTERED IN THE EVENT OF FALSE STATEMENTS/DOCUMENTS AND FALSE DECLARATIONS, AS WELL AS THE PROVISIONS OF ART. 75 OF THE PRESIDENTIAL DECREE 28 DECEMBER 2000 NO. 445, ON THE FORFEITURE OF ANY BENEFITS RESULTING FROM THE PROVISION ISSUED ON THE BASIS OF UNTRUTHFUL DECLARATIONS, PURSUANT TO AND FOR THE PURPOSES OF THE AFOREMENTIONED PRESIDENTIAL DECREE NO. 445/2000 AND UNDER HIS OWN PERSONAL RESPONSIBILITY DECLARES THAT ALL THE INFORMATION INCLUDED IN MY CURRICULUM VITAE IS TRUE.

RESEARCH INTERESTS: Mesozoic calcareous nannofossils. Biostratigraphy and Timescales. Paleoecology and Paleoceanography. Past Greenhouse worlds. Evolutionary history and dynamics of calcareous nannoplankton. Calcareous nannoplankton biomineralization. Oceanic Anoxic Events and organic C-rich black shales. Cyclostratigraphy. Biogenic nannofossil carbonate fluxes and paleo-pCO₂ reconstructions. Biosphere-geosphere interactions.

(co)Author of ~180 papers on stratigraphy and paleoceanography. The ground-breaking nature of the track record is demonstrated by publications in top peer-reviewed journals such as Science, Nature, and Nature Geoscience; the five most-cited paper (ca. 2000 citations) unravel the interplay between global change, oceanic ecosystem dynamics (calcareous nannoplankton), volcanism, CO₂ and palaeoclimate.

BIBLIOMETRICS (June 2023)

Total Citations: ~9200 SCOPUS

H Index: 52 SCOPUS

Within the Top Italian Scientists - Earth Sciences since 2015

EDUCATION:

1982: Laurea cum laude in Geological Sciences at the Department of Earth Sciences of the University of Milano, Italy.

1987: PhD in Earth Sciences at the Department of Earth Sciences of the University of Milano, Italy.

1987-1988: post-DOC at Geologisches Ins., ETH-Zurich (Switzerland).

POSITION:

2005- present: Full Professor -Dept. of Earth Sciences, Univ. of Milan

2000-2004: Associate Professor- Dept. of Earth Sciences, Univ. of Milan

1990-2000: Researcher - Dept. of Earth Sciences, Univ. of Milan

POSITIONS at the University of Milan:

2018-2021: Member of the Senato Accademico

2011-2018: Coordinator of the PhD Program in Earth Sciences

2011-2013: Director of the Graduate School of Earth, Environment and Biodiversity

2008-2010: Coordinator of Committee for International programs (Faculty of Natural Sciences)

2007-2008: Member of Commissione d'Ateneo per la Ricerca Scientifica e il Trasferimento Tecnologico

2006-2011: Chair of the Comitato d'Area 4- Geological Sciences

2006-2007: Secretary of Faculty of Natural Sciences

2005-2011: Member of the Council of the Graduate School of Earth, Environment and Biodiversity

2004-2006: Member of Comitato d'Area 4- Geological Sciences

NATIONAL AND INTERNATIONAL POSITIONS

2023-present: President of IODP-Italia
2022: Socio Nazionale of Accademia Nazionale dei Lincei
2021: Member Comitato di Selezione PRIN 2020 (PE10)
2019: Socio eletto dell'Istituto Lombardo di Scienze e Lettere
2019-2023: President of IODP-Italia
2018: Member of the Società Geologica Italiana Council
2015-2020: Member of the IODP (International Ocean Discovery Program) Curatorial Board
2015-2018: Member of the Committee IODP-Italia
2015-2017: President of the Società Geologica Italiana
2013- 2022: Member of Accademia Nazionale dei Lincei
2011-2012: Member of the national Research Evaluation Committee – ANVUR VQR 2004-2010 (GEV04-Earth Sciences)
2010: Member of the IODP Third Review Panel
2009-2014: Vice-President of the Società Geologica Italiana
2009-2014: Member of Council of the Società Geologica Italiana
2008- 2014: President of Comitato IODP-Italia
2008- 2014: Italian Delegate in ESSAC (ECORD)
2006-2007: Vice-President of Gruppo di Riferimento IODP-Italia
2005-2010: Permanent Alternate ECORD in IODP-SSEP
2004- 2007: CONISMA delegate in the Gruppo di Riferimento IODP-Italia
2003-2004: ANDRILL Italian Steering Committee
2000-2008: Voting member of International Subcommittee on Cretaceous Stratigraphy (IUGS)
2000-2006: Member of Council of the Società Paleontologica Italiana
1997-2000: Secretary of the Società Paleontologica Italiana
1995-1998: Member of the Ocean History Panel (ESCO delegate) of the Ocean Drilling Program 1994 - present: Chairman of the APTIAN Working Group of the Int. Subcom. on Cretaceous Stratigraphy (IUGS)
1989-1990: Scientific Coordinator of ESCO (ESF Scientific Committee for the ODP)

AWARDS AND HONORS

2022 - J.B. Lamarck Medal – European Geoscience Union
2017 - Finalist Premio ROSA (Risultati Ottenuti Senza Aiuti) - XIII edizione - del CANOVA Club
2016 - Premio Donna 2016 “Eccellenze femminili del territorio” attribuito da FIDAPA (Federazione Italiana Donne Arti Professioni Affari)-BPW Italy (INTERNATIONAL FEDERATIONAL OF BUSINESS AND PROFESSIONAL WOMEN_BPW ITALY)
2013 - Elected Member of the Academia Europaea - Section Earth and Cosmic Sciences
2012 - Tartufari Prize for Geosciences of the Accademia Nazionale dei Lincei
2006 - “Exceptional Reviewer” for the journal GEOLOGY

FUNDED PROJECTS

2023-2025: “Conservation of life on Earth: the fossil record as an unparalleled archive of ecological and evolutionary responses to past warming events” (Bando PRIN 2020)
2019-2021: “Biota resilience to global change: biomineralization of planktic and benthic calcifiers in the past, present and future” (Bando PRIN 2017 - **PI**)
2017-2018: “Depositional characterization of organic-rich facies in deep and ultra-deep water areas: Biostratigraphic and Paleoceanographic characterization” (**PI** di Convenzione con Eni spa)
2013-2015: Past ExcessCO₂ worlds: biota responses to extreme warmth and ocean acidification (PRIN 2010-2011 – **PI**)
2010: Fondazione Cariplo “Promuovere la formazione di capitale umano d’eccellenza” – Project: “pCO₂ effects on the production of pelagic biogenic carbonate: case histories from the Cretaceous ocean”

- 2007-2009: Calcareous plankton evolutionary accelerations and their relationships to global changes during the Mesozoic and Cenozoic. Do global changes matter or not? (Grant MIUR-PRIN 20072007W9B2WE_001, **PI**)
- 2005-2007: Biotic Evolution and Global Change: selected Late Mesozoic-Early Cenozoic case histories of pelagic ecosystems archived in the Ocean Drilling Program (ODP) and land-section sediments. (Grant MIUR-PRIN n. 2005044839_001, **PI**)
- 2003-2005: Climatic variability and transitions from greenhouse to icehouse worlds: Evidence from deep-sea (ODP) and land pelagic sediments (Valanginian to Oligocene). (Grant MIUR-PRIN n. 2003041915_001, **PI**)
- 2001-2003: Cretaceous to Paleogene extreme climates and transient climatic events as documented in ODP sediments and on land pelagic successions. (Grant MIUR-SAUS n. 2001048975_001)
- 2000-2003 C/T-Network - Rapid global change during the Cenomanian/Turonian oceanic anoxic event: Examination of a natural climatic experiment in Earth history. EC- funded Human Potential Programme Research Training Network HPRN-CT-1999-00055 (Scientific Coordinator of the Milan Unit)
- 1999-2001: Calcareous nannofossil and planktonic foraminiferal high-resolution biostratigraphy of Cretaceous to Pleistocene deep-sea sedimentary successions from the Pacific, Atlantic and Indian Oceans. (Grant MIUR-SAUS n. 9904152971_001)
- 1998-2000 SAP – Saproels and Paleoceanography EC- funded project MAS3-CT97-0137 (**Scientific Coordinator** of the Milan Unit)
- 1996-1999 – APTICORE Project Co-funded by U. S. National Science Foundation grant EAR9405108 to R.L.Larson and by Italian Consiglio Nazionale delle Ricerche grant CT.05.115.29570B/0004 to E.Erba (**PI**)

EDITORIAL BOARDS

Associate Editor: Rendiconti Lincei – Scienze Fisiche e Naturali (since 2016); Newsletters on Stratigraphy (since 2012); Italian Journal of Geosciences (2009-2014); Terra Nova (2008-2015); Swiss Journal of Geosciences (2004-2012)

ORGANISATION OF INTERNATIONAL CONFERENCES

EUG 11 (Strasbourg, France, 8-12 April 2001)

* Co-convener of Symposium EVO5: Rapid changes in Mesozoic paleoceanography: micropaleontological, sedimentological and geochemical proxies.

9th International Nannoplankton Association Conference (Parma, Italy, 9-12 Sept. 2002)

* Member of the Organizing Scientific Committee

* Co-convener of Workshop on “Nannofossil paleoceanography”

EGS-AGU-EUG Joint Assembly (Nice, France, 6-11 April, 2003)

* Co-convener of Session CL11.25 “Extreme climates during the Paleogene and Cretaceous: evolution and impacts”

32nd International Geological Congress (Florence, Italy, 20-28 August 2004)

* Co-convener of Topical Symposium T18.03 “Biomineralization in the Cretaceous oceans”

AGU Fall Meeting 2006 (San Francisco, USA, 11-15 December 2006)

* Co-convener of Special Session PP05: “Oceanic Anoxic Events: Current understanding, future challenges”

IODP-WORKSHOP “Investigating Large Igneous Province Development and Consequences” (Coleraine, N Ireland, 22-25 July 2007)

* Member of the Scientific and Steering Committee

VI Forum Italiano di Scienze della Terra GEOITALIA 2007 (Rimini, Italy, 11-14 Sept. 2007)

* Co-convener of Workshop W-11 Partecipazione italiana al Progetto di Perforazione Oceanica IODP (Integrated Ocean Drilling Program)

AGU Fall Meeting 2008 (San Francisco, USA, 15-19 December 2008)

* Co-convener of Session V24A “Large Igneous Provinces, Mass Extinctions, Impacts, and Global Environmental Change”

IUGS- SubCommission on Cretaceous Stratigraphy - 3rd Jurassic/Cretaceous boundary workshop (Milano, Italy, 6-8 March 2009)

* Convener

* Organizer and Leader of the Field trip

VII Forum Italiano di Scienze della Terra GEOITALIA 2009 (Rimini, Italy, 11 -13 Sept. 2009) *

Co-Convener of Session R2 “La perforazione oceanica: risultati scientifici dalle campagne Ocean Drilling Program e Integrated Ocean Drilling Program”

International Conference “The Colors of Cretaceous and Paleogene Oceans” (VerbaniaPallanza, Italy, 16-19 May 2010) * Principal Organizer

EarthTime-EU Project (ESF) – Workshop on calcareous plankton biostratigraphy (Milano, 15-16 January 2011)

* Principal Organizer

AAPG-ICE (International Conference & Exhibition) (Milano, 23-26 October 2011)

* Chair of the “Short Courses” Committee

AGU Fall Meeting 2011 (San Francisco, USA, 5-9 December 2011)

*Co-convener of Session V27: Origin, Structure, and History of Oceanic Plateaus

IODP Workshop "Exploring the Cretaceous Greenhouse through Scientific Drilling" April 15-17, 2013 - London, United Kingdom

*Co-Convener

CHIKYU International Workshop (April 21-23, 2013 - Tokyo, Japan)

* Member of the Steering Committee

International Workshop EARTHTIME-EU: Exploring the Cretaceous world: data and numerical models at work to fill gaps (Torretta Granitola, Italy - 2 - 4 October 2014) *Member of the Steering Committee

The future of Italian Geosciences –Congress of Italian Geological Society (Milano, 8-12 September 2014) * Chair of the Congress

Workshop “Guiding questions for an Italian carbon initiative” (Milano, 13 Sept. 2014)

* co-Chair

Workshop "Le geoscienze e il ciclo del carbonio" (Milano, 18-19 Febbraio 2015)

* co-Chair

International Nannoplankton Association Meeting 16 (Athens, Greece, 24-28 September 2017)

*Member of the Scientific Committee

AAPG Workshop “Biogenic Gas and Hydrates: New Opportunities and Future Challenges” (Milano, Italy – 20-21 June 2018)

* Co-Chair

STRATI 2019 (Milano, Italy, 2-6 July 2019)

* co-Chair

Il tempo del pianeta Terra e il tempo dell’uomo: le Geoscienze tra passato e futuro –Congress of Italian Geological Society (Parma 16-19 September 2019)

* Member of the Scientific Committee

Geology without Borders –Congress of Italian Geological Society (Trieste, 14-17 September 2021)

*Member of the Scientific Committee

TUTOR OF PhD STUDENTS:

Davide Castradori PhD 1992 Francesca Lozar PhD 1993 Fabrizio Tremolada PhD 2004.

Bianca De Bernardi PhD 2005

Paola Tamagnini PhD 2008

Cristina E.Casellato PhD 2009

Daniele Tiraboschi PhD 2010

Cinzia Bottini PhD 2011

Fabio Russo PhD 2014

Gabriele Gambacorta PhD 2014
Giulia Faucher PhD 2015
Stefano Visentin, PhD 2020
Fancesco Miniati, PhD 2021
Liyenne Cavalheiro, PhD 2022

Post-DOCs:

Alessandra Negri, 1993-1995
Ben Walsworth-Bell, 2000-2003 Bianca De Bernardi, 2005-2009
Cristina E. Casellato, 2011-2016
Giulia Faucher, 2015-2019
Silvia Gilardoni, 2017-2018
Carla Moeller, 2017-2018
Victor Giraldo Gomez, 2018-2021
Stefano Visentin, 2021-2022

OUTREACH activities

- 2023: Giornata Internazionale delle Donne e Ragazze nella Scienza: LE ACCADEMICHE LINCEE INCONTRANO... LE FUTURE SCIENZIATE** - Accademia Nazionale dei Lincei, 11 Febbraio 2023
*Co-Organizzatrice e Relatrice
- 2022: Partecipazione al programma RAI "KILIMANGIARO"** – intervista andata in onda il 14 Agosto 2022.
- 2021: #iogeologo: iniziativa per promuovere la figura del geologo e l'orientamento in ingresso ai corsi di laurea in Scienze Geologiche** – *Ideato e finanziato dalla Società Geologica Italiana*
*Co-Organizzatrice
- 2021: Film Festival ON THE ROCKS 2021** – *Società Geologica Italiana*
*Co-Organizzatrice
- 2021: Giornata Internazionale delle donne e delle ragazze nella Scienza 2021** - Anche la cancellazione è violenza: storie di donne di Scienza – *Iniziativa dell'Istituto Nazionale di Gofisica e Vulcanologia*
"Da allieva a maestra: E. Erba intervista I. Premoli Silva"
<https://www.youtube.com/watch?v=PChWv79lzIs&feature=youtu.be>
- 2020: Le Serie di Rai Cultura - I Lincei per il clima**
Rai Cultura, in collaborazione con L'Accademia Nazionale dei Lincei, presenta 16 puntate sul clima e il cambiamento climatico in un momento storico in cui il complesso delle condizioni meteorologiche muta repentinamente in ogni angolo del pianeta.
* Autrice e Docente della puntata " Le rocce raccontano il clima negli ultimi 700 milioni di anni"
- 2019: Inspiring Girls** Istituto Comprensivo R. Massa in Via Quarenghi, 12, Milano. 29/03/2019
*Role Model
- 2019: Video contest ON THE ROCKS 2019** – *Società Geologica Italiana*
*Co-Organizzatrice
- 2018: Video contest ON THE ROCKS 2018** – *Società Geologica Italiana*
*Co-Organizzatrice
- 2017: Video contest ON THE ROCKS 2017** – *Società Geologica Italiana*
*Co-Fondatore, Co-Organizzatrice
- 2015: Geospettacolo "TERRA CAMBIA"** – Firenze, 4 Settembre 2015. Università degli Studi di Firenze (Aula Magna)
*Co-Ideatrice, Co-Organizzatrice, Attrice
- 2014: Geospettacolo "GEOLOGI, NON PER CASO"**– Milano, 12 Settembre 2014. Università degli Studi di Milano (Aula Magna) *Co-Ideatrice, Co-Organizzatrice

PUBLICATIONS

- 1- **Erba E.** in Scientific Staff Cruise BAN-84 (1985) - Gypsum precipitation from cold brines in an anoxic basin in the eastern Mediterranean. *Nature*, v. 314, n. 6007, pp. 152-154, 4 fig., Basingstoke.
- 2- Cita M.B., Aghib F., Cambi A., Camerlenghi A., Corselli C., **Erba E.**, Giambastiani M., Herbert T., Kastens K., Leoni C., Malinverno P., McCoy F.W., Nosetto A., Parisi E., & Spezzibottani G. (1985) - Precipitazione attuale di gesso in un bacino anossico profondo: prime osservazioni geologiche, idrologiche, paleontologiche sul Bacino Bannock (Mediterraneo orientale). *Giornale di Geologia*, s. 3, v. 47, n. 1-2, pp. 143-163, Bologna
- 3- **Erba E.** (1986) - I Nannofossili calcarei nell'Aptiano-Albiano (Cretacico inferiore): biostratigrafia, paleoceanografia e diagenesi degli Scisti a Fucoidi del Pozzo Piobbico (Marche). *PhD Thesis*, Univ. Milano, 313 pp., 26 tav., 48 fig., Milano.
- 4- Violanti D., Parisi E. & **Erba E.** (1987) - Fluttuazioni climatiche durante il Quaternario nel Mar Tirreno, Mediterraneo occidentale (carota PC-19 Ban 80). *Rivista Italiana di Paleontologia e Stratigrafia*, v. 92, n. 4, pp. 515-570, 3 tav., 12 fig., 3 tab., Milano.
- 5- **Erba E.** & Parisi E. (1987) - Lamine gelatinose ritrovate in un bacino anossico del Mediterraneo Orientale. *Rendiconti dell' Accademia Nazionale dei Lincei*, v. 80, f. 5 (1986), pp. 299-305, 1 tav., 3 fig., Roma.
- 6- **Erba E.** & Quadrio B. (1987) - Biostratigrafia a Nannofossili calcarei, Calpionellidi e Foraminiferi planctonici della Maiolica (Titoniano superiore-Aptiano) affiorante nelle Prealpi Bresciane (Italia settentrionale). *Rivista Italiana di Paleontologia e Stratigrafia*, v. 93, n.1, pp. 3-108, 11 tav., 12 fig., 4 tab., Milano.
- 7- **Erba E.**, Parisi E. & Cita M.B. (1987) - Stratigraphy and sedimentation in the Western Strabo Trench, Eastern Mediterranean. *Marine Geology*, v. 75, pp. 57-75, 10 fig., 5 tab., Amsterdam.
- 8- Parisi E., **Erba E.** & Cita M.B. (1987) - Stratigraphy and sedimentation in the anoxic Bannock Basin (Eastern Mediterranean). *Marine Geology*, v. 75, pp. 93-117, 12 fig., 6 tab., Amsterdam.
- 9- **Erba E.**, Rodondi G., Parisi E., Ten Haven H.L., Nip M. & De Leeuw J.W. (1987) - Gelatinous pellicles in deep anoxic hypersaline basins from the Eastern Mediterranean. *Marine Geology*, v. 75, pp. 165-183, 11 fig., 3 tab., Amsterdam.
- 10- Lecca L., Carboni S., **Erba E.**, Muller C., Pisano S., Sechi F. & Tilocca G. (1987) - Campagna oceanografica "Margini continentali Sardi 1985": resoconto e risultati preliminari. *Rendiconti della Società Geologica Italiana*, v. 10, pp. 61-64, 6 fig., Roma.
- 11- **Erba E.** (1988) - Aptian-Albian calcareous nannofossil biostratigraphy of the Scisti a Fucoidi cored at Piobbico (Central Italy). *Rivista Italiana di Paleontologia e Stratigrafia*, v.94, n.2, pp. 249-284, 1 tav., 4 fig., 1 tab., Milano.
- 12- Premoli Silva I., **Erba E.** & Tornaghi M.E. (1987) - Mid Cretaceous Corg-rich pelagic facies: their climatic significance and relationship with changes in primary productivity. *Accademia Nazionale dei Lincei, A Mid-Term Conference, Lithosphere Program*, pp. 261-276, 6 fig., Roma.
- 13- Cita M.B., Fornaciari M., Camerlenghi A., Corselli C., **Erba E.**, McCoy F.W. & Vezzoli L. (1988) - Anoxic basins of the Eastern Mediterranean: new evidence from the Bacino Bannock area. *Memorie della Società Geologica Italiana*, v. 36 (1986), pp. 131-144, 7 fig., 1 tab., Roma.
- 14- **Erba E.** (1988) - Prae-Jurassic and Jurassic calcareous nannofossil bibliography: an update. *I.N.A. Newsletter*, v. 10, n. 2, pp. 94-102, London.
- 15- Premoli Silva I., **Erba E.** & Tornaghi M.E. (1989) - Paleoenvironmental signals and changes in surface fertility in Mid Cretaceous Corg-rich pelagic facies of the Fucoiid Marls (Central Italy). *Geobios*, 1989, Mem. 11, pp. 225-236, 6 fig., 3 tab., Lyon.
- 16- **Erba E.** (1989) - Calcareous nannofossils from the Bas Auran section. In: Innocenti M., Mangold G., Pavia G. e Torrens H. "A proposal for the formal ratification of the basal boundary stratotype of the Bathonian stage based on a Bas Auran section (SE France)", *Proc. 2° Int. Symposium on Jurassic Stratigraphy*, Lisbona, 1988, pp. 333-346, 1 fig.

- 17- Bersezio R., **Erba E.** & Fornaciari M. (1989) - The Barremian-Turonian erosional unconformity in the M. Misma area (Lombardy Basin, Southern Alps). *Rivista Italiana di Paleontologia e Stratigrafia*, v. 94, n. 4, pp. 619-630, 7 fig., Milano.
- 18- Robba E., Sartono S., Violanti D. & **Erba E.** (1989) - Early Pleistocene gastropods from Timor (Indonesia). *Memorie di Scienze Geologiche*, v. 41, pp. 61-113, 7 tav., 4 fig., 3 tab., Padova.
- 19- **Erba E.** (1989) - New findings of gelatinous pellicles from the anoxic Bannock and Tyro basins. Reports of the "Conference on the Anoxic Basins of the Eastern Mediterranean", *Suppl. Ricerca Scientifica, Univ. Studi Milano*, pp. 45-46., Milano.
- 20- **Erba E.** (1989) - Stratigraphy of cruise Tyro-87 cores from Bannock, Tyro and Kretheus basins. Reports of the "Conference on the Anoxic Basins of the Eastern Mediterranean", *Suppl. Ricerca Scientifica, Univ. Studi Milano*, pp. 20-21, 2 fig., Milano.
- 21- **Erba E.**, Coccioni R. & Premoli Silva I. (1989) - The "Scisti a Fucoidi" in the Umbria-Marche area: The Apecchiese road sections. *Memorie Descrittive della Carta Geologica d' Italia*, v. 39, pp. 146-164, 12 fig., Roma.
- 22- **Erba E.** (1989) - Upper Jurassic to Lower Cretaceous *Nannoconus* distribution in some sections from northern and central Italy. *Memorie di Scienze Geologiche*, v. 61, pp. 255-261, 1 fig., 1 tab., Padova.
- 23- Cita M.B., Camerlenghi A., **Erba E.**, McCoy F.W., Castradori D., Cazzani A., Guasti G., Giambastiani M., Lucchi R., Nolli V., Pezzi G., Redaelli M., Rizzi E., Torricelli S. & Violanti D. (1989) - Discovery of mud diapirism in the Mediterranean Ridge. A preliminary report. *Bollettino della Società Geologica Italiana*, v. 108, pp. 537-543, 4 fig., 1 tab., Roma.
- 24- Cita M.B., Aghib F., Arosio S., Folco E., Lamberto S., **Erba E.** & Rizzi A. (1989) - Bacterial colonies and manganese micronodules related to fluid escape on the crest of the Mediterranean Ridge. *Rivista Italiana di Paleontologia e Stratigrafia*, v. 95, n.3, pp. 315-336, 3 tav., 5 fig., 4 tab., Milano.
- 25- Pirini Radrizzani C., Castradori D., **Erba E.**, Guasti G. & Rizzi A. (1989) - A revised method for observing the same nannofossil specimens with scanning electron microscope and light microscope. *Rivista Italiana di Paleontologia e Stratigrafia*, v. 95, n. 4, pp. 449-454, 3 fig., Milano.
- 26- **Erba E.** (1990) - Calcareous nannofossil biostratigraphy of some Bajocian sections from the Digne area (SE France). *Memorie Descrittive della Carta Geologica d' Italia*, v. 40, pp. 237-256, 3 tav., 6 fig., Roma.
- 27- **Erba E.** & Pavia G. (1990) - Record of the discussion about the proposals for the Bajocian G.S.S.P. *Memorie Descrittive della Carta Geologica d' Italia*, v. 40, pp. 63-68, Roma.
- 28- **Erba E.** in ODP Leg 129 Shipboard Party (1990) - Ancient crust on Pacific plate. *Nature*, v. 345, pp. 112, 1 fig., Basingstoke.
- 29- **Erba E.** in ODP Leg 129 Scientific Party (1990) - Jurassic oceanic crust and sediments in the Pacific, at last. *Geotimes*, June 1990, pp.25-26, 3 fig.
- 30- **Erba E.** in Lancelot, Y. Larson R.L. and Scientific Party of ODP Leg 129 (1990) - *Proceedings of the Ocean Drilling Program, Initial Reports*, Volume 129, College Station, Texas.
- 31- **Erba E.** (1991) - Deep mid-water bacterial mats from anoxic basins of the Eastern Mediterranean. *Marine Geology*, v. 100, pp. 83-101, 13 fig., 3 tab., 1991, Amsterdam.
- 32- **Erba E.** (1991) - Le nannoflore calcaree del Cretacico medio dell'Oceano Pacifico occidentale (ODP Leg 129): Evidenze della migrazione della placca pacifica verso il paleoequatore. *Paleopelagos*, v. 1, pp. 71-77, 3 fig., 1 tab., Roma.
- 33- Cobianchi M., **Erba E.** & Pirini Radrizzani C. (1992) - Evolutionary trends of calcareous nannofossil genera *Lotharingius* and *Watznaueria* during the Early and Middle Jurassic. *Memorie di Scienze Geologiche*, v. 43, pp. 19-25, 2 fig., 1 tab., Padova.
- 34- **Erba E.**, Castradori D. & Cobianchi M. (1992) - Compilation of Upper Triassic and Jurassic calcareous nannofossil ranges. *Memorie di Scienze Geologiche*, v. 43, pp. 27-40, 2 fig., Padova.
- 35- **Erba E.**, Castradori D., Guasti G. & Ripepe M. (1992) - Calcareous nannofossils and Milankovitch cycles: The example of the Albian Gault Clay Formation (Southern England). *Palaeoclimatology Palaeogeography Palaeoceanography*, v. 93, pp. 47-69, 11 fig., 4 tab., Amsterdam.

- 36- Channell J.E.T. & **Erba E.** (1992) - Early Cretaceous polarity chrons CM0 to CM11 recorded in Northern Italian land sections near Brescia (Northern Italy). *Earth and Planetary Science Letters*, v. 108, pp. 161-179, 17 fig., 3 tab., Amsterdam.
- 37- **Erba E.** (1992) - Calcareous nannofossil distribution in pelagic rhythmic sediments (Aptian-Albian Piobbico core, Central Italy). *Rivista Italiana di Paleontologia e Stratigrafia*, v. 97, pp. 455-484, 18 fig., Milano.
- 38- Camerlenghi A. & **Erba E.** (1992) - Extreme deep-sea environment of the Eastern Mediterranean anoxic basins: the state of the art. *Rivista Italiana di Paleontologia e Stratigrafia*, v. 97, pp. 695-708, 4 fig., Milano.
- 39- Lini A., Weissert H. & **Erba E.** (1992) - The Valanginian carbon isotope event: a first episode of greenhouse climate conditions during the Cretaceous. *Terra Nova*, v. 4, pp. 374-384, 11 fig., Oxford.
- 40- Coccioni R., **Erba E.** & Premoli Silva I. (1992) - Barremian-Aptian calcareous plankton biostratigraphy from the Gorgo Cerbara section (Marche, central Italy) and implications for plankton evolution. *Cretaceous Research*, v. 13, pp. 517-537, 12 fig., London.
- 41- **Erba E.** & Covington J.M. (1992) - Calcareous nannofossil biostratigraphy of Mesozoic sediments recovered from the western Pacific, Leg 129. *Proceedings of the Ocean Drilling Program, Scientific Results*, v. 129, pp. 179-187, 2 fig., 4 tab., College Station, Texas.
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