

Zeitschrift: Eclogae Geologicae Helvetiae
Herausgeber: Schweizerische Geologische Gesellschaft
Band: 72 (1979)
Heft: 3

Artikel: Jurassic pelagic deposits from Southeast Tuscany : aspects of sedimentation and new biostratigraphic data
Autor: Kälin, Otto / Patacca, Etta / Renz, Otto
Bibliographie: References
Autor: [s.n.]
DOI: <https://doi.org/10.5169/seals-164859>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 07.03.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

REFERENCES

A. Regional geology and sedimentology

- AUBRY, M.P., & DÉPÊCHE, F. (1974): *Recherches sur schizosphères*. – Cah. Micropaléont. 1.
- BALDACCI, F., ELTER, P., GIANNINI, E., GIGLIA, G., LAZZAROTTO, A., NARDI, R., & TONGIORGI, M. (1967): *Nuove osservazioni sul problema della Falda Toscana e sulla interpretazione dei Flysch Arenacei tipo «Macigno» dell'Appennino Settentrionale*. – Mem. Soc. geol. ital. 6/2, 213–244.
- BERGER, W.H. (1974): *Deep-sea sedimentation*. In: BURK, C.A., & DRAKE, C.L. (Eds.): *The geology of continental margins* (p. 213–246). – Springer, Berlin/Heidelberg/New York.
- BERNOULLI, D. (1972): *North Atlantic and Mediterranean Mesozoic facies: a comparison*. In: HOLLISTER, C.D., EWING, J.I., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 11* (p. 801–871). – U.S. Govt. Print. Off., Washington.
- BERNOULLI, D., & JENKYN, H.C. (1970): *A Jurassic Basin: The Glaserbach Gorge, Salzburg, Austria*. – Verh. geol. Bundesanst. (Wien) 1970/4, 504–531.
- BERNOULLI, D., KÄLIN, O., & PATACCA, E. (1979): *A sunken continental margin of the Mesozoic Tethys: the Northern and Central Apennines*. In: BEAUDOIN, B., & PURSER, B.H. (Eds.): *La sédimentation jurassique ouest-européenne*. – Publ. spéc. Assoc. Sédimentol. franç.
- BERNOULLI, D., & RENZ, O. (1970): *Jurassic carbonate facies and new ammonite faunas from Western Greece*. – Eclogae geol. Helv. 63/2, 573–607.
- BIGAZZI, G., BONADONNA, F.P., FERRARA, G., & INNOCENTI, F. (1973): *Fission track ages of zircons and apatites from Northern Apennines ophiolites*. – Fortschr. Mineral. 50, 51–53.
- BIGAZZI, G., FERRARA, G., & INNOCENTI, F. (1972): *Fission track ages of gabbro from Northern Apennines ophiolites*. – Earth and planet. Sci. Lett. 14, 242–244.
- BOSELLINI, A., & WINTERER, E.L. (1975): *Pelagic limestones and radiolarite of the Tethyan Mesozoic: a genetic model*. – Geology 3/5, 279–282.
- BORTOLOTTI, V., & PASSERINI, P. (1965): *Segnalazione della presenza delle formazioni dal Calcare Selcifero ai Calcari variegati ad Aptici alla base della Serie Toscana a Cintoia (Chianti settentrionale)*. – Boll. Soc. geol. ital. 84/6, 37–40.
- BORTOLOTTI, V., PASSERINI, P., SAGRI, M., & SESTINI, G. (1970): *The miogeosynclinal sequences*. In: SESTINI, G. (Ed.): *Development of the Northern Apennines geosyncline*. – Sediment. Geol. 4, 341–444.
- CANUTI, P., FOCARDI, P., & SESTINI, G. (1965): *Stratigrafia, correlazioni e genesi degli Scisti Policromi del Chianti (Toscana)*. – Boll. Soc. geol. ital. 84/6, 93–166.
- CANUTI, P., & MARCUCCI, M. (1967): *Lacune della Serie Toscana. IV.: Osservazioni sui rapporti stratigrafici tra Maiolica e Scisti Policromi nella Toscana centro-meridionale (area di Rapolano)*. – Boll. Soc. geol. ital. 86/4, 809–818.
- CARMIGNANI, L., GIGLIA, G., & KLIGFIELD, R. (1978): *Structural evolution of the Apuane Alps: an example of continental margin deformation in the Northern Apennines, Italy*. – J. Geol. 86, 487–504.
- COLACICCHI, R., PASSERI, L., & PIALLI, G. (1970): *Nuovi dati sul Giurese umbro-marchigiano ed ipotesi per un suo inquadramento regionale*. – Mem. Soc. geol. ital. 9/4, 839–873.
- DALLAN NARDI, L., & NARDI, R. (1974): *Schema stratigrafico e strutturale dell'Appennino settentrionale*. – Mem. Acad. Lunigianese Sci. 42 (1972).
- DE ANGELIS D'OSSAT, G. (1879–80): *I dintorni di Rapolano*. – Rend. r. Accad. Lincei 5–6, 113–121.
- FAZZINI, P., PAREA, G.C., & MANTOVANI, M.P. (1968): *Ricerche sul Mesozoico della Toscana a sud dell'Arno*. – Mem. Soc. geol. ital. 7/2, 129–193.
- FEDERICI, P.R. (1967): *Un esemplare di ammonite delle «Marne a Posidonia» di Campiglia nei Monti Occidentali della Spezia*. – Boll. Soc. geol. ital. 86/2, 367–374.
- FISCHER, R. (1972): *Protogrammoceras und Fucineras im Lotharingium und Carixium Mittelitaliens*. – N. Jb. Geol. Paläont. [Abh.] 141/1, 37–80.
- FOLK, L.R., & MCBRIDE, E.F. (1978): *Radiolarites and their relation to subjacent "Oceanic crust" in Liguria, Italy*. – J. sediment. Petrol. 48/4, 1069–1101.
- FUCINI, A. (1905): *Nota illustrativa della carta geologica del Monte Cetona*. – Tipografia Vannucci, Pisa.
- GAETANI, M. (1975): *Jurassic stratigraphy of the Southern Alps*. In: SQUYRES, C. (Ed.): *Geology of Italy* (p. 377–402). – Earth Sci. Soc. Libyan Arab. Repub., Tripoli.
- GARRISON, R.E., & FISCHER, A.G. (1969): *Deep-water limestones and radiolarites of the Alpine Jurassic*. In: FRIEDMAN, G.M. (Ed.): *Depositional environments in carbonate rocks, a symposium*. – Spec. Publ. Soc. econ. Paleont. Mineral. 14, 20–56.

- GIANNINI, E., & LAZZAROTTO, A. (1975): *Tectonic evolution of the Northern Apennines*. In: SQUYRES, C. (Ed.): *Geology of Italy* (p. 237-287). – Earth Sci. Soc. Libyan Arab. Repub., Tripoli.
- HAMPTON, M.A. (1972): *The role of subaqueous debris flow in generating turbidity currents*. – J. sediment. Petrol. 42/4, 775-793.
- (1975): *Competence of fine-grained debris flows*. – J. sediment. Petrol. 45/4, 834-844.
- HESSE, R. (1975): *Turbiditic and non-turbiditic mudstone of Cretaceous flysch sections of the East Alps and other basins*. – Sedimentology 22/3, 387-416.
- HESSE, R., VON RAD, U., & FABRICIUS, F.H. (1971): *Holocene sedimentation in the Strait of Otranto between the Adriatic and Ionian Seas (Mediterranean)*. – Marine Geol. 10/5, 293-355.
- HOLLISTER, C.D., HEEZEN, B.C., & NAFE, K.E. (1975): *Animal traces on the Deep-Sea Floor*. In: FREY, R.W. (Ed.): *The study of trace fossils* (p. 493-510). – Springer, Berlin/Heidelberg/New York.
- HSÜ, K.J. (1976): *Paleoceanography of the Mesozoic Alpine Tethys*. – Spec. Pap. geol. Soc. Amer. 170.
- HUANG, T.C., & STANLEY, D.J. (1972): *Western Alboran Sea: sediment dispersal, ponding and reversal of currents*. In: STANLEY, D.J. (Ed.): *The Mediterranean Sea: a natural sedimentation laboratory* (p. 521-559). – Dowden, Hutchinson & Ross, Stroudsburg, Pennsylvania.
- JEFFERIES, R.P.S., & MINTON, P. (1965): *The mode of life of two Jurassic species of "Posidonia" (Bivalva)*. – Palaeontology 8/1, 156-185.
- JENKYN, H.C. (1974): *Origin of red nodular limestones (Ammonitico Rosso, Knollenkalke) in the Mediterranean Jurassic: a diagenetic model*. In: HSÜ, K.J., & JENKYN, H.C. (Eds.): *Pelagic sediments: on Land and under the Sea*. – Spec. Publ. int. Assoc. Sedimentol. 1, 249-271.
- KUHRY, B., DE CLERCQ, S.W.G., & DEKKER, L. (1976): *Indications of current action in Late Jurassic limestones, radiolarian limestones, Saccocoma limestones and associated rocks from the Subbetic of Spain*. – Sediment. Geol. 15/3, 235-258.
- LANCELOT, Y. (1973): *Chert and silica diagenesis in sediments from the Central Pacific*. In: WINTERER, E.L., EWING, J.J. et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 17* (p. 377-405). – U.S. Govt. Print. Off., Washington.
- LAUBSCHER, H., & BERNOULLI, D. (1977): *Mediterranean and Tethys*. In: NAIRN, A.E.M., KANES, W., & STEHLI, F.G. (Eds.): *The Ocean Basins and Margins. 4A: The Eastern Mediterranean*. – Plenum Publ. Corp., New York.
- LOSACCO, U. (1951): *La struttura del territorio di Rapolano e Lucignano (Siena e Arezzo)*. – Boll. Soc. geol. ital. 70/2, 402-434.
- LOSACCO, U., & DEL GIUDICE, D. (1958): *Stratigrafia degli affioramenti posti tra le colline di Rapolano e il Monte Cetona (Siena)*. – Boll. Soc. geol. ital. 77/2, 1-32.
- LOTTI, B. (1910): *Geologia della Toscana*. – Mem. descr. Carta geol. ital. 13.
- MCBRIDE, E.F., & THOMSON, A. (1970): *The Caballos Novaculite, Marathon Region, Texas*. – Spec. Pap. geol. Soc. Amer. 122.
- MERLA, G. (1951): *Geologia dell'Appennino settentrionale*. – Boll. Soc. geol. ital. 70/1, 95-328.
- MIDDLETON, G.V., & HAMPTON, M.A. (1976): *Subaqueous sediment transport and deposition by sediment gravity flows*. In: STANLEY, D.J., & SWIFT, D.P. (Eds.): *Marine sediment transport and environmental management* (p. 197-218). – Wiley & Sons, New York/London/Sidney/Toronto.
- NEUMANN, A.C., & LAND, L.S. (1975): *Lime mud deposition and calcareous algae in the Bight of Abaco, Bahamas: A budget*. – J. sediment. Petrol. 45/4, 763-786.
- NISBET, E.G., & PRICE, I. (1974): *Siliceous turbidites: bedded cherts as redeposited, ocean ridge-derived sediments*. In: HSÜ, K.J., & JENKYN, H.C. (Eds.): *Pelagic sediments: on Land and under the Sea*. – Spec. Publ. int. Assoc. Sedimentol. 1, 351-366.
- PAREA, G.C. (1970): *Ricerche sulla genesi delle rocce silicee non detritiche*. – Mem. Soc. geol. ital. 9/4, 665-707.
- PIPER, D.J.W. (1972): *Turbidite origin of some laminated mudstones*. – Geol. Mag. 109/2, 117-126.
- PIPER, D.J.W., & BRISCO, C.D. (1975): *Deep-water continental-margin sedimentation, DSDP Leg 28, Antarctica*. In: HAYES, D.E., FRANKS, L.A., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 28* (p. 727-755). – U.S. Govt. Print. Off., Washington.
- RAD, U. VON, & RÖSCH, H. (1974): *Petrography and diagenesis of deep-sea cherts from the central Atlantic*. In: HSÜ, K.J., & JENKYN, H.C. (Eds.): *Pelagic sediments: on Land and under the Sea*. – Spec. Publ. int. Assoc. Sedimentol. 1, 327-347.
- REINECK, H.E., & SINGH, I.B. (1973): *Depositional sedimentary environments*. – Springer, Berlin/Heidelberg/New York.

- RODINE, J.D., & JOHNSON, A.M. (1976): *The ability of debris, heavily freighted with coarse clastic materials, to flow on gentle slopes.* – *Sedimentology* 23/2, 213–234.
- SCHLAGER, W. (1974): *Preservation of cephalopod skeletons and carbonate dissolution on ancient Tethyan sea floors.* In: HSÜ, K.J., & JENKYN, H.C. (Eds.): *Pelagic Sediments: on Land and under the Sea.* – Spec. Publ. int. Assoc. Sedimentol. 1, 49–70.
- SCHLAGER, W., & JAMES, N.P. (1978): *Low-magnesian calcite limestones forming at the deep-sea floor, Tongue of the Ocean, Bahamas.* – *Sedimentology* 25/5, 675–702.
- STURANI, C. (1967): *Reflexions sur les faciès lumachelliques du Dogger mésogéen («Lumachelle à Posidonia alpina» auctt.).* – *Boll. Soc. geol. ital.* 86/3, 445–467.
- VALDUGA, A. (1948): *Osservazioni geologiche sulla parte settentrionale dei Monti del Chianti.* – *Boll. Soc. geol. ital.* 67, 161–187.
- VOIGT, E. (1962): *Frühdiagenetische Deformation der turonen Plänerkalke bei Halle/Westf.* – *Mitt. geol. Staatsinst. Hamburg* 31, 146–275.
- WISE, S.W., & WEAVER, F.M. (1974): *Chertification of oceanic sediments.* In: HSÜ, K.J., & JENKYN, H.C. (Eds.): *Pelagic sediments: on Land and under the Sea.* – Spec. Publ. int. Assoc. Sedimentol. 1, 301–326.
- ZACCAGNA, D. (1932): *Descrizione geologica delle Alpi Apuane.* – *Mem. descr. Carta geol. ital.* 25.

B. Palaeontology

- BERNOULLI, D. (1964): *Zur Geologie des Monte Generoso (Lombardische Alpen).* – *Beitr. geol. Karte Schweiz [N.F.]* 118.
- CUZZI, G. (1960): *Osservazioni sul genere Punctaptychus e sulla specie Punctaptychus punctatus (Voltz).* – *Boll. Soc. paleont. ital.* 1/2, 43–51.
- FARINACCI, A., MARIOTTI, N., MATTEUCCI, R., NICOSIA, W., & PALLINI, G. (1976): *Structural features of some Jurassic and Early Cretaceous aptychi.* – *Boll. Soc. paleont. ital.* 15/2, 111–143.
- GASIOROWSKI, S.M. (1962): *Aptychi from the Dogger, Malm and Neocomian in the Western Carpathians and their stratigraphical value.* – *Stud. geol. pol.* 10.
- GILLIÉRON, V. (1873): *Aperçu géologique sur les Alpes de Fribourg en général et description spéciale du Montsalvens.* – *Matér. Carte géol. Suisse* 12.
- OOSTER, W.A. (1857): *Pétrifications remarquables des Alpes Suisses.* – *Catalogue des Céphalopodes fossiles des Alpes Suisses*, 1^{re} partie, 1–32.
- PETERS, K. (1854): *Die Aptychen der österreichischen Neocomien- und oberen Juraschichten.* – *Jb. k.k. geol. Reichsanst. (Wien)* 5, 439–444.
- QUENSTEDT, F.A. (1886–87): *Die Ammoniten des Schwäbischen Jura 2; der braune Jura.* – Stuttgart.
- RENZ, O. (1972): *Aptychi (Ammonoidea) from the Upper Jurassic and Lower Cretaceous of the Western Atlantic (Site 105, Leg 11, DSDP).* In: HOLLISTER, C.D., EWING, J.I., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 11* (p. 607–629). – U.S. Govt. Print. Off., Washington.
- (1973): *Two Lamellaptychi (Ammonoidea) from the Magellan Rise in the Central Pacific.* In: WINTERER, E.L., EWING, J.I., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 17* (p. 895–901). – U.S. Govt. Print. Off., Washington.
- (1977): *Aptychi (Ammonoidea) from the Late Jurassic and Early Cretaceous of the Eastern Atlantic, DSDP Site 367.* In: LANCELOT, Y., SEIBOLD, E., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 41* (p. 499–508). – U.S. Govt. Print. Off., Washington.
- (1978): *Aptychi (Ammonoidea) from the Early Cretaceous of the Blake-Bahama Basin, Leg 44, Hole 391 C, DSDP.* In: BENSON, W.E., SHERIDAN, R.E., et al. (Eds.): *Init. Rep. Deep Sea Drill. Proj. 44* (p. 899–909). – U.S. Govt. Print. Off., Washington.
- SCHAFHÄUTL, K.E. (1853): *Über die geognostischen Horizonte in den Bayern'schen Voralpen.* – *N. Jb. Mineral. Geogn. Geol. Petrefaktenkd.* 1853, 399–432.
- TRAUTH, F. (1927): *Aptychenstudien I.* – *Ann. nathist. Mus. Wien* 41, 171–259.
- (1930): *Aptychenstudien III–IV.* – *Ann. nathist. Mus. Wien* 44, 229–411.
- (1935): *Die Punctaptychi des Oberjura und der Unterkreide.* – *Jb. geol. Bundesanst. (Wien)* 85, 309–332.
- (1936): *Die zweivalvigen Aptychen des Lias.* – *Jh. Ver. vaterl. Natkd. Württemb.* 92, 10–44.
- (1938): *Die Lamellaptychi des Oberjura und der Unterkreide.* – *Palaeontographica* 88A, 115–229.
- ZIEGLER, B. (1977): *The "White" (Upper) Jurassic in Southern Germany.* – *Stuttgarter Beitr. Natkd. (B)*, 26.