PLATE IX *in Ghibaudo, G., Massari, F., and Chiambretti, I., 2019, Geology of the southern Tertiary Piedmont Basin: Journal of Mediterranean Earth Sciences, Vol. XI*

CARROSIO - LEMME SECTION

LOWER LANGHIAN

UPPERMOST BURDIGALIAN

T. LEMME SILICEOUS LITHOZONE LS2

LCO *H. ampliaperta*

UPPER BURDIGALIAN

T. LEMME SILICEOUS LITHOZONE LS2

MIDDLE BURDIGALIAN

CORTEMILIA FM

Levels 48,68,76,84,102, 107,109, 115,117, 119,121, 123,126,137: partly silicified bedsets, 2-8 m thick, consisting of layers, 5-20 cm thick, of delicately bioturbated and homogeneous, hard and solid fine to coarse siltstones, with *Bathysiphon*, otoliths, pteropods, thin-shelled bivalves, planktonic foraminifers, rhythmically alternating with interbeds of poorly cemented, diffusely bioturbated grey to dark-grey mudstones.

FCO *S. heteromorphus*

MIDDLE BURDIGALIAN

CORTEMILIA FM

MIDDLE BURDIGALIAN

CORTEMILIA FM

From level 22 up to ca. level 139: siliciclastic turbidites interbedded with hemipelagites and subordinate layers of resedimented mix of qz-glauconitic sand/silt and hemipelagic marl.

BURDIGALIAN

CORTEMILIA FM

MIDDLE BURDIGALIAN

PRATOLUNGO FM

LCO *S. belemnos*

Levels 7, 8,13-16, and 19 (pink colour): couplets of very fine, locally bioturbated, thin-bedded sandstone layers (with light laminae of quartz+ planktonic forams and dark laminae rich in glauconite), and marl: inferred resedimented mix of qz-glauconitic sand/silt and hemipelagic marl (the latter partly autochthonous).

MIDDLE BURDIGALIAN

PRATOLUNGO FM

LOWER BURDIGALIAN

CARROSIO SANDSTONE

LERMA GLAUCONY

Bedset with poorly distinct stratification made up of bioturbated siltstone/silty marl interbedded with thin bioturbated hybrid sandstone layers with sparse glauconitized intraclasts. Interpretation: outer shelf deposits with distal storm beds.

Ravinement surface overlain by transgressive shoreface sandstone.

Parasequences of inferred wave-dominated delta-front deposits.

mud | sand

vf f m c vc gr

KEY

- Sandstone
- Delta front deposits
- Outer shelf silty marl with distal storm layers
- Resedimented mix of qz-glauconitic sand/silt and hemipelagic marl (the latter partly autochthonous)
- Partly silicified deposits (conventional symbol)
- Hemipelagite
- "e" division of Bouma sequences
- Limestone
- Marl
- Hummocky cross bedding
- Planar parallel lamination
- Convolute lamination
- Water escape
- Paleocurrents
- Bioturbation
- G Glauconite
- Plant remains
- Shark teeth
- Shallow-water bivalves
- Otoliths
- Planktonic foraminifers
- Thin-shelled bivalves
- Ferruginous nodules
- Covered
- Partly covered
- Sample