Petrography dataset

Table 1: Dataset for petrographic analysis

Variable	Allowed. Values	Description	Reference
ID Outcrop/level Lithology		Individual thinsection ID. Outcrop name or archaeological level. Type of rock	
Texture	Mudstone, Wackestone, Packstone, Grainstone, Boundstone, Other	Mudstone: Muddy carbonate rock containing less then 10 % grains; Wackestone: Mud-supported carbonate rock containing more than 10 % grains; Packstone: Grain-supported muddy carbonate rock; Grainstone: Mud-free carbonate rocks, which are grain supported; Boundstone: Carbonate rocks showing signs of being bound during deposition.	According to Dunham (1962)
Microstructure	Homogeneous, Banded, Laminar, Nodular, Brexoid, Other	Distribution of crystals and clasts within the rock at a microscopic scale. Homogeneous: equally spread in the rock; Banded: distributed in bands; Nodular: distributed in clumps; Brechoid: fracturing of the rock irregularly.	According to Dorado (1989, pp. 21)
Orthochem		Materials formed in two ways: 1) deposited directly from supersaturated aqueous solutions due to chemical reactions or evaporation; 2) formed by the replacement of existing sedimentary materials.	According to Vernon (2018, pp. 24-25)
Orthochem type	Essential (ES), Accessory (AC), Secondary (SE)	Essential: minerals that form more than 5% of the volume of the rock; Accessory: Minerals with proportion of less than 5% of the volume of the rock; Secondary: products of the alteration (hydrothermal or physical), independent of the proportion within the rock.	According to Dorado (1989, pp. 26)
Orthochem description		General description of the orthochem and where it is identified.	
Orthochem (%) Allochem		Approximate percentage of the orthochem's presence in the total thin-section area. Material formed by the movement and reorganization into new shapes by chemical, physical or biological processes within the depositional basin (ex. ooliths, fecal pellets, iron oxide minerals).	According to Vernon (2018, pp. 25, 27)
Allochem (freq)	Rare, Uncommon, Common, Very frequent	Rare: present one or two elements; Uncommon: present three to 10 elements; Common: present 11 to 20 elements; Very frequent:> 20 elements.	
Bioclast		Also known as skeletal particles, are the remains (complete or fragmented) of the hard parts of carbonate-secreeting organisms.	According to Adams, McKenzie and Guilford (1991, pp. 39)
Bioclast (freq)	Rare, Uncommon, Common, Very frequent	Rare: present one or two elements; Uncommon: present three to 10 elements; Common: present 11 to 20 elements; Very frequent:> 20 elements.	(, FF,
Porosity (%) Porosity type	Interparticle, Moldic, Fenestral, Fracture, Vuggy, Shelter, Other	Approximate frequency of effective porosity. Interparticle: porosity between particles; Moldic: Porosity formed by selective removal of an individual constituent of the rock; Fenestral: Pores larger than grain-supported interstices (interparticle); Fracture: Porosity formed by fracturing; Vug: Pores larger then 1/16 mm in diameter and somewhat equant in shape; Shelter: Porosity created by the sheltering effect of large sedimentary particles; Other: Other types of porosity.	According to Choquette and Pray (1970)
Sedimentary structures	Parallel lamination, Convoluted lamination, Bands/zonations, Burrow, Other	Parallel lamination: sedimentary strata less than 10 mm thick, recognizable due to variation in structure or composition and more or less parallel bounding surfaces; Convoluted lamination: symmetrical about a vertical plane or leaning and asymmetrical, and usually exhibit narrow vertical upturned laminae, often truncated at the top, separated by a broader synclinal downfolds; Bands/zonations: limited areas with different characteristics related to changes in the sedimentation or cementation process; Burrow: bioturbation structures caused by activity of an organism that disrupts the stratification features; Other: Other types of sedimentary structures.	According to Middleton et al. (2003)