

RoofOfRock

Limestone as the common denominator of natural and cultural heritage
along the karstified part of the Adriatic coast

CULTURAL HERITAGE AND LIMESTONE

Appendix 3.I.7

Final report for the project area in Croatia (South Dalmatia)

Annex 3.I.7.1

Representative buildings

Filip Bubalo

June 2015

Descriptor:	Filip Bubalo				
Date of fieldwork:	8.05. 2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3950	Status*¹ as heritage:	cultural-historic site	Evidence number in Register CH:	Z-1423
NAME OF BUILDING (OFFICIAL AND LOCAL):	Kitchen house with chimney / kužina s dimnjakom				
ADDRESS AND LOCATION:	Donja Nakovana E 547 468 N 4762793				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Typical monopitched kitchen house with square ground plan, on one side (south) leaning on the two storey residential house, and on the other side (east) on a small a stable.</p> <p>Preserved roof construction with wooden beams, slightly higher inclination of the roof, often found on this kind of structure. Doorpost and corners are built from larger and processed stone blocks.</p> <p>It can be seen on cadastral map from 1836.</p>				
USE (ORIGINAL):	kitchen	USE (CURRENT):	abandoned		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Roof is covered with platy limestone, and limestone slates are still in place, some of them measuring 140 x 50 cm. Chimney is built with local stone, with top made from platy limestone.</p> <p>Object is in good state of preservation, but it needs some refixing of the slates.</p>				
SPECIFIC OBSERVATIONS:	<p>Since the object is near the part of the village which is planned for revitalization, and the fact that is connected with residential house which is under good roofing construction, it represents a good starting point for some restoration workshops, since it has still preserved original character.</p>				
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

¹National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	7.05.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3952	Status*² as heritage:	Part of the Cultural-historical area	Evidence number in Register CH:	Z-1423
NAME OF BUILDING (OFFICIAL AND LOCAL):	Kužina				
ADDRESS AND LOCATION:	Donja Nakovana E 547478 N 4762744				
TYPE:	Profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Typical rectangular ground plan without windows just door, large platy limestone slates on the roof. Inside there is preserved bread oven. Subsequently installed lintel.				
USE (ORIGINAL):	Kitchen house	USE (CURRENT):	pantry		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Main roof. Object is in good state of preservation, but inadequately restored.				
SPECIFIC OBSERVATIONS:	Object was recently unprofessionally restored in some elements, and represents example of bad practise. Although platy slates are original and preserved, joints between stones are filled with cement: angle stone blocks are inappropriate chosen and are not in the line of older construction, slates are not following traditional three layer positioning.				
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

²National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	15.04. 2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3854	Status*³ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Kitchen / kužina				
ADDRESS AND LOCATION:	Na Dub N 517585 E 4754415				
TYPE:	Profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Traditional kitchen, built in a block of four objects, with completely preserved roof from platy limestone. Rectangular ground plan with rafted roof. Gabels and interior are plastered with lime mortar, also as joints of outside stone walls.</p> <p>Inside there is a water cistern, and preserved original elements such as bread oven, stone vessel for keeping oil and hand mill.</p> <p>Part of the agrarian landscape, abandoned 50 years ago. Wider area of Dub village had around 30 dry stone buildings, now mostly demolished.</p>				
USE (ORIGINAL):	Kitchen house	USE (CURRENT):	abandoned		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Beside roof, platy limestone is used for tiling of the interior. Object is in good state of preservation, but not for long time.				
SPECIFIC OBSERVATIONS:	Full equipped traditional kitchen, an open museum that needs instant protection and salvation of ethnographic material, if not in situ than in local museum.				
QUARRY/EXTRACTION SITE IN THE AREA:	Data not yet available.				
CONTACT/OWNER:					

³National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	8.05. 2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3951	Status*⁴ as heritage:	Cultural-Historical site	Evidence number in Register CH:	Z-1423
NAME OF BUILDING (OFFICIAL AND LOCAL):	Wine house / konoba				
ADDRESS AND LOCATION:	Gornja Nakovana – Island of Pelješac E 548350 N 4762070				
TYPE:	Profane - agricultural				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Single room with rectangular ground plan, low entrance, very dense traditional wooden roof construction with small bread oven inside – annex on the original ground plan is visible outside on longer axis.</p> <p>By the overall state, and the fact that nearby residential houses have inside kitchens and storey rooms, it can be assumed that this is amongst first layer of objects in this hamlet, which was subsequently built with more »complex« objects in the first part of the 19th century.</p>				
USE (ORIGINAL):	Storage for wine	USE (CURRENT):	abandoned		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Large platy limestone tiles are used for covering roof, with ridge traditionally repaired with valley tiles. From significant load by stone slates, gable roof has a dent, and the ridge is supported with wooden beams. Object needs refixing of stone slates, and possibly new wooden construction.				
SPECIFIC OBSERVATIONS:	Except bread oven inside, there are numerous ethnographic elements of traditional farming and wine making, that could be saved and exhibited in (museum in the making) of Donja Nakovana.				
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

⁴National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo / prof. Borut Juvanec (photo and drawings)				
Date of fieldwork:	2005				
NUMBER OF OBJECT IN RoR DATABASE:	3852	Status*⁵ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Vrtujak Gornja Njivica				
ADDRESS AND LOCATION:	Gornja Njivica N 4759234 E 33641537				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Square ground plan with inside circle. Cross section of the construction is corbelling. This is the highest vrtujak on Korčula measuring 4.23 m in total. On the basic dry wall cubic construction, an inner construction is built (corbelling), and then outer wall is constructed, giving it final shape. The top of the construction has walled console steps. Whole construction is built without use of lime or any other mortar. These kinds of shelters have been built since around 200 years ago.				
USE (ORIGINAL):	Shelter	USE (CURRENT):	none		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Platy limestone is essential in building this kind of structures, where the <i>faulse</i> vault is built with stone slates overlapping each other by 1/3 to the front, and the process continues in concentric circles.				
SPECIFIC OBSERVATIONS:	Similar corbelled constructions are common all around Mediterranean, but vrtujci and torete are Korčula specific attraction, and therefore represent tangible cultural heritage, which needs to be protected. Object is in good state of preservation.				
QUARRY/EXTRACTION SITE IN THE AREA:	Data not available				
CONTACT/OWNER:					

⁵National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	15.04. 2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3851	Status*⁶ as heritage:	Protected Local monument	Evidence number in Register CH:	Z-4862
NAME OF BUILDING (OFFICIAL AND LOCAL):	Crkva Gospe od Polja / Church of Our Lady of the Fields				
ADDRESS AND LOCATION:	Blato – in the foot of the hill Mišjak on the east of the Velo polje; visible from the main island road E 522800 N 4756462				
TYPE:	sacral				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Single rectangular nave church with semicircular apse. On the front except two benches and a stone doorframe, there are two ovate openings and a rosette. Above it there is a bell gable with rectangular opening for the bell.</p> <p>It was built on the ruins of an ancient villa rustica from 2nd to 6th century. Facing east-west, church is longitudinal nave building, with a semicircular apse and bell tower. The Gothic features are reflected in the high vault of sharply pointed arches, and smaller changes seen in the Baroque period. Church of Our Lady of the Fields was built in the 14th century, and belongs to a group of related medieval churches, 14th and 15th centuries that are in the area of the island of Korcula, the most numerous and best preserved just in the Blato area.</p>				
USE (ORIGINAL):	church	USE (CURRENT):	church		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Platy limestone is used on the roof of the church, on the benches on each side of the door, and as pavement around the object.</p> <p>Object is in good state of preservation. Needs facade refurbishing.</p>				
SPECIFIC OBSERVATIONS:					
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:	Konzervatorski odjel u Dubrovniku C. Zuzorić 6, 20000 Dubrovnik				

⁶National monument; local monument; only in register; not registered.

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Descriptor:	Filip Bubalo				
Date of fieldwork:	16.04.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3861	Status*⁷ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	cistern				
ADDRESS AND LOCATION:	Near Miletic Tavern E 513 980 N 4760449				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Rectangular water cistern, made with two meticulously built »roofs« for collecting rainwater. Usually covered with lime or cement mortar, this one has only scarp and rip made of cement, and added iron lid.				
USE (ORIGINAL):	Water supply	USE (CURRENT):	Water supply		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Used in making two »roofs« and substructure, without any mortar. Object is in good state of preservation.				
SPECIFIC OBSERVATIONS:					
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

⁷National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	14.04. 2015.				
NUMBER OF OBJECT IN RoR DATABASE:	3860	Status*⁸ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Konoba Miletić / Country estate Miletić				
ADDRESS AND LOCATION:	E 514111 N 4760398				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Complex of one main building and around five or six smaller objects adapted to serve as tavern. Only two small kitchen houses have original construction and rectangular ground plan. Others have been upgraded with concrete structure and covered with platy and crushed limestone, found in nearby surface quarry (property of family Miletić).				
USE (ORIGINAL):	Residential/ agricultural		USE (CURRENT):	Tavern	
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Platy limestone is used on roofs of original kitchen houses, and they are in good preservation status.</p> <p>Otherwise platy limestone is used for pavement of the courtyard, and for decoration of cement walls and columns.</p> <p>Nearby olive crops are surrounded with dry stone walls built with platy limestone, and wonderful dry stone walls along the main road.</p>				
SPECIFIC OBSERVATIONS:	Although T. Miletić uses cement mortar as binder, he is a very skilful and worthy stone mason. The whole estate has been rebuilt by him.				
QUARRY/EXTRACTION SITE IN THE AREA:	100 meters of air distance is a small quarry				
CONTACT/OWNER:	Tonči Miletić				

⁸National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	16.04.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3856	Status*⁹ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	kućice				
ADDRESS AND LOCATION:	Postrana – Žrnovo / Korčula E 549 187 N 4755076				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Typical example of rural architecture. Probably agriculture house, since there are few residential houses in a close distance, with richer elements of architecture, such as doorposts, relieving arches, windows...</p> <p>Rectangular and larger object with no openings; it has a smaller cubic annex with roof slightly lower than the larger one.</p>				
USE (ORIGINAL):	agriculture	USE (CURRENT):	none		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Both roofs are covered in platy limestone. It is also used as a building material along with crushed limestone.</p> <p>Objects are in good state of preservation.</p>				
SPECIFIC OBSERVATIONS:	Along with other objects in a small area, these two dwellings represent a nice example of modest architecture built from nearby small scale quarries.				
QUARRY/EXTRACTION SITE IN THE AREA:	Less than 50 meters away there is a quarry and around the site there are a few small surface extraction sites of platy limestone.				
CONTACT/OWNER:					

⁹National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	16.04. 2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3857	Status*¹⁰ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Stable / štala				
ADDRESS AND LOCATION:	Pupnat / Korčula - by the main island road E 543786 N 4756722				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>Traditional rectangular stable, with no openings beside door (wooden frame). Built with larger stones found nearby and with wooden roof construction with platy limestone.</p> <p>This stable is one of the around 20 stables that are built opposite the hamlet Pupnat which had strong pastoral tradition. Stables are approximately 200 years old.</p>				
USE (ORIGINAL):	stable	USE (CURRENT):	abandoned		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Platy limestone is used only for roofing, since this material was not excavated in nearby.</p> <p>Object is in solid state of preservation.</p>				
SPECIFIC OBSERVATIONS:	<p>Stable is built between two other objects (probably also same function), and separated from all of the other stables which were all in possession of one family- Ciprijan. So this could mean a some kind of ownership separation with a safe distance.</p> <p>Since there are around 20 stables just by the road, some of them in good condition, they represent a possible traditional cultural attraction, and a chance to stand for another 100 years.</p>				
QUARRY/EXTRACTION SITE IN THE AREA:	Zlo polje quarry				
CONTACT/OWNER:					

¹⁰National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo / Borut Juvanec (photo and drawings)				
Date of fieldwork:	2005				
NUMBER OF OBJECT IN RoR DATABASE:	3853	Status*¹¹ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Toreta u Njiivice / Salapučeva Njivica				
ADDRESS AND LOCATION:	Salapučeva Njivica E 531714 N 4752444				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	<p>This toreta has an elongated ground plan with walled door about 1m high. Unlike vrtujak, this construction is built out of local unprocessed stone, and with corbelling upon which is built stepped construction. Built from crushed stone, work on this and other toreta is exceptional.</p> <p>Five of them in total around village of Smokvica are built in end of 19th century by one man – Ante Baničević Bafo, who saw similar objects (barrace) in Spain, during his voyages. He hired one professional stone mason and supervised building process. Etymology of a name is also his product, having no meaning on Korčula.</p>				
USE (ORIGINAL):	shelter		USE (CURRENT):	none	
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Platy limestone is used mostly in the construction of corbelling (inner structure).</p> <p>Object is not in very good state, and needs restoration.</p>				
SPECIFIC OBSERVATIONS:	This is 100 year old tradition created by one man only.				
QUARRY/EXTRACTION SITE IN THE AREA:	Stone material is gathered in nearby area.				
CONTACT/OWNER:					

¹¹National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	15.04.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3858	Status*¹² as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Smokvina				
ADDRESS AND LOCATION:	Uvala Strančičica / Vela Luka E 513548 N 4759844				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Very interesting complex with preserved original layout of main residential building and added kitchen house (rectangular ground plan), under which is a small shelter for animals built in foundations. With these two objects outer walls form small enclosure, out of which there are three more objects who ones had platy limestone roofs, and were built for keeping animals.				
USE (ORIGINAL):	Residential	USE (CURRENT):	abandoned		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	<p>Roof (first row preserved) of main residential house and added kitchen, pavement inside and outside of the house, vaulted cistern, lintel and roofs on auxiliary objects, courtyard benches and table.</p> <p>Object is in good preservation state, but the roof is inappropriately restored with asbestos.</p>				
SPECIFIC OBSERVATIONS:	<p>Extensive use of platy limestone, constructive and decorative elements. Wonderful example of skilful traditional coastal architecture. Never before seen walled shelters placed in the foundations of the object on the ground level.</p> <p>Outer dry stone wall by the road has collapsed and needs special conservation attention.</p>				
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

¹²National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	14.04.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3850	Status*¹³ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Stable / štala – Bobanje lazi				
ADDRESS AND LOCATION:	Cemetery road - Vela Luka / Korčula E 518105 N 4757883				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	Single cell ground plan, typical stable – characteristic to this area, without distinctive architectural features, except one gable window and metal door. As all other stables (nearly 20 of them in area), probably this one was also built in 19-20th century.				
USE (ORIGINAL):	stable	USE (CURRENT):	Agricultural depository		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Platy limestone is used just for roofing. Object is in very good state of preservation.				
SPECIFIC OBSERVATIONS:	Object is frequently used, because of small arable land around it. Just by replacing of steel door, it would bring this traditional house to it's authenticity. Other stables, need more conservation work, for example, replacing asbestos roofs with platy limestone, by which the whole area would restore it's former and primary looks and a significant cultural landscape feature near urban area of Vela Luka.				
QUARRY/EXTRACTION SITE IN THE AREA:	Nearby terraced fields (about 1 km air distance), with surface extraction sites.				
CONTACT/OWNER:					

¹³National monument; local monument; only in register; not registered.

Descriptor:	Filip Bubalo				
Date of fieldwork:	15.04.2014.				
NUMBER OF OBJECT IN RoR DATABASE:	3859	Status*¹⁴ as heritage:	Not registered	Evidence number in Register CH:	
NAME OF BUILDING (OFFICIAL AND LOCAL):	Poljske kućice / agricultural dwellings				
ADDRESS AND LOCATION:	Zanavlje E 515834 N 4761235				
TYPE:	profane				
SHORT DESCRIPTION OF BUILDING (GROUNDPLAN, ELEMENTS, CHRONOLOGY) :	A set of two agricultural objects, from which larger one with rectangular ground plan is probably original and well preserved, and has cistern. Walls are very well built; gaps on the back of the house are filled with some cement mortar. Smaller object has square ground plan with unusual larger door and it serves like pantry. Stone has no patina, and probably this one was built for extra space.				
USE (ORIGINAL):	agricultural	USE (CURRENT):	agricultural		
PLATY LIMESTONE PRESENT IN: (AND THEIR STATE OF CONSERVATION):	Main roofs of both objects; on larger object slates are hardened with lime mortar. Also platy limestone are used as transom, for steps, benches, pavement and terrace of cistern. Object is in good state of preservation.				
SPECIFIC OBSERVATIONS:	Whole area is covered with well preserved dry stone terraces from platy limestone				
QUARRY/EXTRACTION SITE IN THE AREA:					
CONTACT/OWNER:					

¹⁴National monument; local monument; only in register; not registered.