

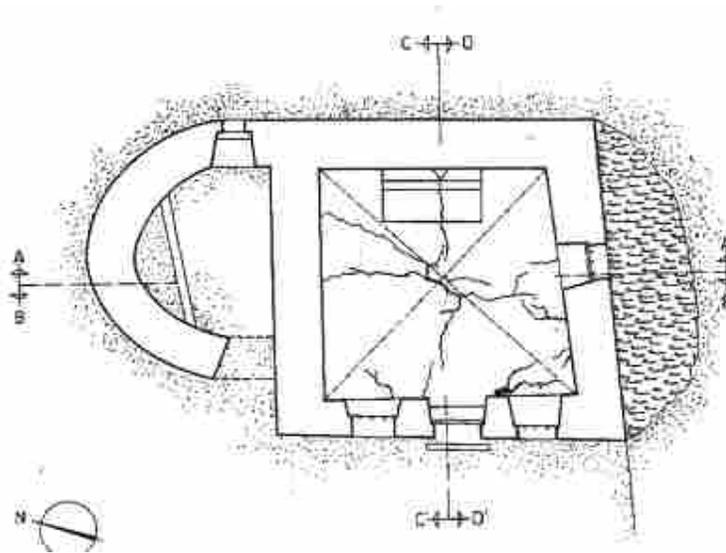
## **Religious emergencies in Val Grande in Lanzo: Chialamberto Commun**

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The goal of the present work is to study Chialamberto religious emergencies, which belong to the wider architectural heritage of Val Grande, which together with Ala and Viù form "Valli di Lanzo", in the territory of Turin Province.

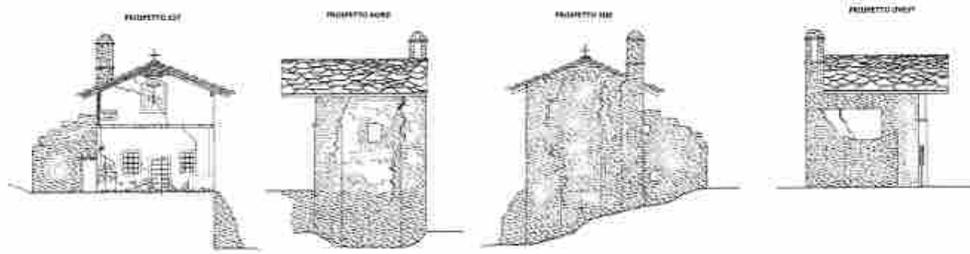
Since not so much has been written on the present object, the search has taken place both in libraries and archives in Turin and in Chialamberto, and directly on the place, by taking pieces of information from some people, who are heirs of old wall gaffers and of the priors of churches and chapels.



The work presents a geographical and historical search on the local territory, by using the documents, which are reported in the consulted texts, a serie of topographical maps and a geological table - found on specific works concerning the old and historical Alps cartography -, updated and antique pictures.

Some environmental and lithological hints follow this chapter, with observation concerning the nature and their existence of the local stones, so to define the natural external factors which have influenced the decay of the material, which has been employed for the presented buildings.

It has been so possible to define the period during which the still existing 20 churches and chapels together with the bell tower in Vonzo have been built up, that is between the XVII and the XIX century, except for the parish church, which was built in 1596, and its tower of romanic origin (XI century).

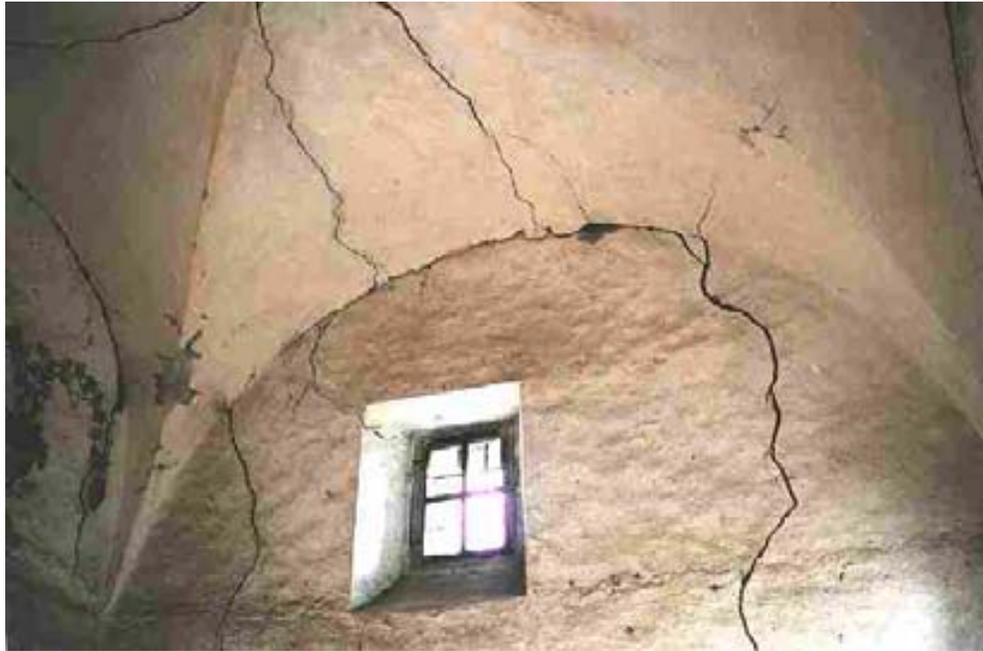


Then, we find a detailed analysis of each building, together with all the historical news and their building chronology (sometimes taken from handwritten sources), physical description and photos - which portray the structure in its natural environment (which nowadays has been completely changed because of the contrasting presence of new buildings besides the old ones) -, some detailed filmings to show ornamental and building elements. This has represented a useful aid to elaborate graphics, especially for those whose state of decay is worse than others.

This has given the possibility to point out typology, morphology, the present state and original features of the objects; even if these buildings have been for long time left to their destiny, and therefore they have undergone bad weather conditions besides pillages by unknown people, who have left some chapels bare, i.e. St. Matteo in Balmavenera Inferiore and St. Giovanni in Vonzo. Moreover some of them have been disfigured because of unsuitable restorations, which have therefore changed the typical mountain architectural-technological features.

Afterwards, the work goes on with a deep analysis of the 2 buildings, which are both situated in the territory of Vonzo little village, that is the Chapel of St. Giovanni and the Church of St. Bernardo, which have been chosen according to their building type and their decay degree.





It consists of:

a geometrical and fotografical survey; a crack survey; an analysis of the state of decay of the material; an estimation of the covering stability (with individuation of the chart, the calculation of the reactions and the tensions presented on the more overstressed sections); an estimation of the horizontal curve structure, the vault (with the search of the section of the plastic hinge, of the resultant, of the curve of the stressed lines and the estimation of the stress on the shutter, by employing Mery's method); an estimation of the vertical one (by buckling, by slipping and by spreading out, except from the façade, which has been estimated only by buckling).

Eventually, a proposal of consolidation has been made.

According to it, some texts of the common bibliography and the concerning laws have been consulted.