

IX. LIST OF ILLUSTRATIONS

The maps are north-oriented. Different sources were used. Several maps are drawn on the basis of satellite images such as Google Earth. Other maps were created with the free and open source geographic information system QGIS Development Team, 2016 (QGIS Geographic Information System. Open Source Geospatial Foundation Project. <http://www.qgis.org/>). For that purpose, GIS data based maps were created by Jakob Gredler and graphically finalised by the author. Details were provided by the author. For the maps data were downloaded and adapted. The following data were used. The particular sources are mentioned with abbreviations in the caption of each map.

- VD = Vector data (rivers, lakes, mountain peaks, borders, etc.): made with Natural Earth. Free vector and raster map data @ naturalearthdata.com.
- BM = Basemaps: made with maps.stamen.com. Map tiles by Stamen Design, under CC by 3.0. Data by OpenStreetMap, under ODbL.
- SR = SRTM4 digital elevation data. Adapted from Jarvis et al. 2008.
- CM = Climate map. Adapted from Peel et al. 2007.
- TM = Tectonic map. Adapted from Hodges 2000: 329.
- LC = MODIS/Terra and Aqua Combined Land Cover Type CMG Yearly Global 0.05 Deg - MCD12C1.006, Friedl, Sulla-Menashe (2015).

CHAPTER I

- Map 1.1 Map 1.1 Central Tibet. The Four Horns. GIS data based map drawn by: Jakob Gredler. Final graphics: author. Map based on data from Vector data (VD) and Basemaps (BM). Citations of VD and BM also see: Chapter IX, list of illustrations.
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- 2 = *delma* (Tib. *dral ma*, small pieces of wood of a tree or bush), e.g. willow branches are commonly used in WT.
- 3 = organic layer; specific types of grass like *yaksas* used in WT; the use of an organic layer is commonly known in WT, but not everywhere in CT.
- 4 (ground layer) = *yamba* (Tib. *gyam pa*, flat stones); often used in combination with an *arga* roof; often used in CT or Purang; rarely used in WT.
- 4 (upper layer) = *dorug* (Tib. *rdo hrug*, small stones); used in combination with the *yamba* below to fill gaps between the bigger stones.
- 5 = *thogdag* (Tib. *thog 'dag*); is the first layer of clay.
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CHAPTER IV

Table 4.1 List of clay samples

Table 4.2 List of clay samples

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- Fig. 4.79 (Bottom, right) Labrang. Village house. End of a *kath-kuni* wall.
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- Fig. 4.81 (Bottom, left) Thangi. A beam fills the interspace between the runner beams.
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APPENDIX CHAPTER III

Grain size distribution analysis

- GSD 3.1 Basgo. Maitreya Lhakhang. Sample 8496. Plaster on pillar. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.2 Basgo. Maitreya Lhakhang. Sample 8479. Plaster on pillar. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.3 Basgo. Maitreya Lhakhang. Sample 8479. Plaster on pillar. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.4 Basgo. Lotsāba Lhakhang. Sample 8482. Interior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.5 Basgo. Lotsāba Lhakhang. Sample 8483. Interior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.6 Basgo. Lotsāba Lhakhang. Sample 11946. Interior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.7 Basgo. Lotsāba Lhakhang. Sample 11948. Adobe brick. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.8 Basgo. 'Lhakhang close to the road'. Sample 8475. Interior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.9 Basgo. 'Lhakhang close to the road'. Sample 11928. Interior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.10 Basgo. 'Lhakhang close to the road'. Sample 8499. Exterior wall plaster. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.11 Basgo. 'Lhakhang close to the road'. Sample 8472. Adobe brick. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.12 Basgo. 'Lhakhang close to the road'. Sample 11933. Adobe brick. Top: Cumulative sum. Bottom: Grain size classes.

- GSD 3.13 Basgo. Sample 15410. Building raw material. *Dzasa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.14 Basgo. Sample 11915. Building raw material. *Thetsa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.15 Basgo. Sample 15411. Building raw material. *Thetsa*. Top: Cumulative sum. Bottom: Grain size classes.
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- GSD 3.17 Basgo. Sample 11952. Building raw material. Adobe brick. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.18 Tunlung. Sample 11748. Clay stove. *Thabsa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.19 Tunlung. Sample 15412. Clay stove. *Thabsa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.20 Ne. Sample 11919. Clay stove. *Thabsa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.21 Ne. Sample 15515. *Tandoor* stove. *Thabsa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.22 Likir. Sample 11751. *Tandoor* stove. *Dzasa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.23 Likir. Sample 11752. *Thandoor* stove. *Dzasa*. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.24 Likir. Sample 11763. Adobe brick. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.25 Likir. Sample 11921. Clay pit. Top: Cumulative sum. Bottom: Grain size classes.
- GSD 3.26 Likir. Sample 11749. Sand for mixing. Top: Cumulative sum. Bottom: Grain size classes.

Bulk mineral analysis

- BMA 3.1 Basgo. Maitreya Lhakhang. Sample 8469. Bulk mineral analysis.
- BMA 3.2 Basgo. Maitreya Lhakhang. Sample 8479. Bulk mineral analysis.
- BMA 3.3 Basgo. Maitreya Lhakhang. Sample 8496. Bulk mineral analysis.
- BMA 3.4 Basgo. Lotsāba Lhakhang. Sample 8482. Bulk mineral analysis.
- BMA 3.5 Basgo. Lotsāba Lhakhang. Sample 8483. Bulk mineral analysis.
- BMA 3.6 Basgo. Lotsāba Lhakhang. Sample 11946. Bulk mineral analysis.
- BMA 3.7 Basgo. Lotsāba Lhakhang. Sample 11948. Bulk mineral analysis.
- BMA 3.8 Basgo. '*Lhakhang* close to the road'. Sample 8475. Bulk mineral analysis.
- BMA 3.9 Basgo. '*Lhakhang* close to the road'. Sample 11928. Bulk mineral analysis.
- BMA 3.10 Basgo. '*Lhakhang* close to the road'. Sample 8499. Bulk mineral analysis.
- BMA 3.11 Basgo. '*Lhakhang* close to the road'. Sample 8472. Bulk mineral analysis.
- BMA 3.12 Basgo. '*Lhakhang* close to the road'. Sample 11933. Bulk mineral analysis.
- BMA 3.13 Basgo. Building raw material. Sample 15410. Bulk mineral analysis.
- BMA 3.14 Basgo. Building raw material. Sample 11915. Bulk mineral analysis.
- BMA 3.15 Basgo. Building raw material. Sample 15411. Bulk mineral analysis.
- BMA 3.16 Basgo. Building raw material. Sample 8465. Bulk mineral analysis.
- BMA 3.17 Basgo. Building raw material. Sample 11952. Bulk mineral analysis.

- BMA 3.18 Tunlung. *Thabsa*. Sample 11748. Bulk mineral analysis.
 BMA 3.19 Tunlung. *Thabsa*. Sample 15412. Bulk mineral analysis.
 BMA 3.20 Ne. *Thabsa*. Sample 11919. Bulk mineral analysis.
 BMA 3.21 Basgo. *Thabsa*. Sample 15515. Bulk mineral analysis.
 BMA 3.22 Likir. *Thabsa*. Sample 11751. Bulk mineral analysis.
 BMA 3.23 Likir. *Dzasa*. Sample 11752. Bulk mineral analysis.
 BMA 3.24 Likir. Clay pit. Sample 11763. Bulk mineral analysis.
 BMA 3.25 Likir. Adobe brick. Sample 11921. Bulk mineral analysis.
 BMA 3.26 Likir. Sand. Sample 11749. Bulk mineral analysis.

Clay mineral analysis

- CMA 3.1 Basgo. Maitreya Lhakhang. Sample 8469. Clay mineral analysis.
 CMA 3.2 Basgo. Maitreya Lhakhang. Sample 8479. Clay mineral analysis.
 CMA 3.3 Basgo. Maitreya Lhakhang. Sample 8496. Clay mineral analysis.
 CMA 3.4 Basgo. Lotsāba Lhakhang. Sample 8482. Clay mineral analysis.
 CMA 3.5 Basgo. Lotsāba Lhakhang. Sample 8483. Clay mineral analysis.
 CMA 3.6 Basgo. Lotsāba Lhakhang. Sample 11946. Clay mineral analysis.
 CMA 3.7 Basgo. Lotsāba Lhakhang. Sample 11948. Clay mineral analysis.
 CMA 3.8 Basgo. 'Lhakhang close to the road'. Sample 8475. Clay mineral analysis.
 CMA 3.9 Basgo. 'Lhakhang close to the road'. Sample 11928. Clay mineral analysis.
 CMA 3.10 Basgo. 'Lhakhang close to the road'. Sample 8499. Clay mineral analysis.
 CMA 3.11 Basgo. 'Lhakhang close to the road'. Sample 8472. Clay mineral analysis.
 CMA 3.12 Basgo. 'Lhakhang close to the road'. Sample 11933. Clay mineral analysis.
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 CMA 3.16 Basgo. Building raw material. Sample 8465. Clay mineral analysis.
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 CMA 3.19 Tunlung. *Thabsa*. Sample 15412. Clay mineral analysis.
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 CMA 3.21 Basgo. *Thabsa*. Sample 15515. Clay mineral analysis.
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 CMA 3.23 Likir. *Dzasa*. Sample 11752. Clay mineral analysis.
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 STA 3.2 Basgo. Lotsāba Lhakhang. 8483. Simultaneous thermal analysis.
 STA 3.3 Basgo. 'Lhakhang close to the road'. 8475. Simultaneous thermal analysis.

- STA 3.4 Basgo. 'Lhakhang close to the road'. 8472. Simultaneous thermal analysis.
- STA 3.5 Basgo. Sample 8465. Raw material. *Thetsa* and *dzasa* mixed. Simultaneous thermal analysis.
- STA 3.6 Tunlung. Sample 11748. Raw material. *Thabsa*. Simultaneous thermal analysis.
- STA 3.7 Tunlung. Sample 15412. Raw material. *Thabsa*. Simultaneous thermal analysis.
- STA 3.8 Ne. Sample 11919. Raw material. *Thabsa*. Simultaneous thermal analysis.
- STA 3.9 Likir. Sample 11751. Raw material. *Thabsa*. Simultaneous thermal analysis.

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- IRS 3.1 Tunlung. Sample 15412. Infrared spectroscopy. Below: Showing the content of well-crystalised kaolinite.
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APPENDIX CHAPTER IV

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