

Auxiliary Material for

The upper-mantle transition zone beneath the Ibero-Maghrebian region as seen by teleseismic *Pds* phases

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Introduction

This auxiliary material contains 3 tables which present the underlying data behind Figures 1, 5, 6, 7, 8 and 9 (in the main body of the article). The processing needed to obtain the tables is described in the main body of the article.

1. ts01.file

Stations' information to reproduce Figure 1 b) in the main body of the article.

1.1 Column 1: Station name.

1.2 Column 2: Network code. IberArray (IB), Catalan Seismic Network (CA), Southern Spain Broad Band Seismic Network (IG), GEOFON (GE), University of Lisbon Seismic Network (LX), Mediterrean Network (MN), Western Mediterranean Seismic Network (WM), Portuguese National Seismograph Network (PM), French Broadband Seismological Network (FR), Ebre Observatory Regional Seismic Network (EB).

1.3 Column 3: station longitude [deg].

1.4 Column 4: station latitude [deg].

2. ts02.file

Underlying data behind Figures 5, 6, 7, 8 and 9 for *P410s* phases. This file contains:

2.1 column 1: central longitude of the CPP bin.

2.2 column 2: central latitude of the CPP bin.

2.3 column 3: *P410s* estimated relative time AFTER correction.

2.4 column 4: time uncertainty value from bootstrap.

2.5 column 5: estimated depth value for 410 discontinuity.

2.6 column 6: depth uncertainty value.

2.7 column 7 to 9: method of detection.

3. ts03.file

Underlying data behind Figures 5, 6, 7, 8 and 9 for *P660s* phases. This file contains:

3.1 column 1: central longitude of the CPP bin.

3.2 column 2: central latitude of the CPP bin.

3.3 column 3: *P660s* estimated relative time AFTER correction.

3.4 column 4: time uncertainty value from bootstrap.

3.5 column 5: estimated depth value for 660 discontinuity.

3.6 column 6: depth uncertainty value.

3.7 column 7 to 9: method of detection.