

Interactive comment on “Changes in high intensity precipitation on the Northern Apennines (Italy) as revealed by multidisciplinary data over the last 9000 years” by Stefano Segadelli et al.

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Dear reviewers, we are strongly indebted for your positive and constructive comments which really helped to improve our manuscript. Please see attached the individual point-by-point responses, accompanied by the relevant new figures as requested. Full documentation with all the edits is going to be added with the revised manuscript. These will take into account, not only of referees opinions but also of other short comments received.

If some replays to reviewers' comments are unclear, please do not hesitate to contact

C1

Best regards, Federico Grazzini, on behalf of all co-authors

Please also note the supplement to this comment:
<https://www.clim-past-discuss.net/cp-2019-135/cp-2019-135-AC2-supplement.pdf>

Interactive comment on Clim. Past Discuss., <https://doi.org/10.5194/cp-2019-135>, 2019.

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Lab. code	Core code	Core depth (cm)	Material	Conventional age (year BP)	Calibrated age BP (±2 sigma)	Calibrated range BC/AD (±2 sigma)
LTL17681A	S1	113	Peaty deposit	82±45	149-11	1680AD (28.4%) 1764AD 1801AD (66.0%) 1939AD
LTL18275A	S2	237	Plant fragments (not determinable)	178.69±0.55 pMC	-	after 1959AD
LTL18275A	S3	233-237	Peaty deposit	It was not possible to date, poor presence of organic matter	-	-
LTL18274A	S4	279-281	Plant fragments (not determinable)	80±40	146-14	1681AD (26.5%) 1737AD 1804AD (68.9%) 1936AD
LTL18272A	S5	310-314	Plant fragments (not determinable)	102.12±0.10	-	-
LTL17682A	S6	455	Pinus wood fragments (small twigs)	3659±45	4094-3861	2194BC (2.2%) 2175BC 2144BC (93.2%) 1911BC 1649BC (86.7%) 1505BC 1427BC (76.7%) 1189BC
LTL18273A	S7	500-502	Peaty deposit	4779±45	5399-5455	4683BC (8.0%) 4613BC 4623BC (87.6%) 4440BC 4410BC (51.8%) 4205BC
LTL18277A	S8	790	Peaty deposit including small wood fragments (not determinable)	5686±45	6573-6396	5255BC (4.1%) 5185BC 5077BC (91.9%) 4853BC
LTL18278A	S9	860-865	Alder's alder wood fragments (small twigs)	6065±45	7027-6785	5559BC (95.4%) 5373BC 5366BC (6.6%) 5288BC
LTL18276A	S10	930-933	Alder's alder wood fragments (small twigs)	6518±45	7420-7241	5559BC (95.4%) 5373BC 5366BC (6.6%) 5288BC
LTL18272A	S12	909	Peaty deposit	159.33±0.48 pMC	-	after 1959AD
LTL17683A	S13	1044	Plant fragments (not determinable)	8600±45	9672-9501	7722BC (95.4%) 7551BC

Fig. 3. Table TS2 New