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Supplement of

OCTOPUS: an open cosmogenic isotope and luminescence database

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TABLE S1: Description of CRN attribute table entries

Field Name	Type & Units	Values	Example	Description
Source of data and version information				
SMPID1	String	*[S###WTS###]*	S101WTS001	Unique sample identifier provided as part of the compilation
SMPID2	String	*[Sample Name]*	Achina	Original sample identifier (as published)
IGSNID	String	*[IGSN Sample Name]* or NA – for not applicable	NA	Placeholder for *International Geo Sample Number* unique ID. Not in use and set by default to NA
STUDYID	String	*[S###]*	S101	Unique study identifier provided as part of the compilation
AUTH	String	*[Author Name]*	Munack	Last name of lead author
PUBYEAR	Integer	*[YYYY]* – for published data or 9999 – for data not published	2014	Year of publication
REFID	String	[*Abbrev_Publ_Name_Vol*] or PhD_Thesis MSc_Thesis Hons_Thesis Not_Published	Geol_Soc_Am_Bull_126	Abbreviated name of journal and volume number, or type of publication (i.e., PhD thesis Master thesis, etc.)
REFDOI	String	[*DOI String*] – where available or ND – for no data NA – for not applicable	10.1130/B30979.1	Digital object identifier (DOI) where available
DBDOI	String	[*DOI String*]	10.4225/48/5a8367feac9b2	Digital object identifier (DOI) of the CRN sub-collection as provided by UOW Library
DBVER	Integer	*[YYYY]*	2017	Version of the sub-collection. The year when version with DOI provided in DBDOI was published online
Location of sample site				
BASIN	String	*[Name]* or ND – for no data	Upper Indus	River basin from where sample is from; Use name of river or stream sampled; If not available, use name of higher order stream or river
AHGFL1	String	CC – Carpentaria Coast LEB – Lake Eyre Basin MDB – Murray-Darling Basin NEC – North East Coast	NA	Geofabric AHGF river region code. Only used for data from Australia

		NWP – North Western Plateau PG – Pilbara-Gascoyne SAG – South Australian Gulf SEN – South East Coast NSW SEV – South East Coast VIC SWC – South West Coast SWP – South Western Plateau TAS – Tasmania TTS – Tanami-Timor Sea Coast NA – for basins outside Australia		
AHGFL2	String	[AHGFCode##] or NA – for basins outside Australia	NA	Geofabric AHGF combined river region code (AHGLF1) and topographic drainage division two-digit number; Only used for data from Australia
REGION	String	[Name] or ND – for no data	Himalaya	Name of the study region; This might be the name of a drainage basin, mountain range, geographic region, or administrative region, etc.
CNTRY	String	[ISO Code]	IND	ISO 3-letter country code from where sample is from
X_WGS84	Float [decimal degree]	[value; six decimal places]	76.630114	WGS84 longitude of sample site as identified on the DEM (N.B. not necessarily the published X coordinate)
Y_WGS84	Float [decimal degree]	[value; six decimal places]	34.504037	WGS84 latitude of sample site as identified on the DEM (N.B. not necessarily the published Y coordinate)
Type of material sampled				
MATERIAL	Integer	1 – sand 2 – gravel 3 – mix of sand and gravel 9 – other grain size 0 – no data	1	Type of material sampled
SIZEMIN	Integer [micron]	[size in microns] or 0 – for no data	125	Minimum grain size sampled
SIZEMAX	Integer [micron]	[size in microns] or 0 – for no data	500	Maximum grain size sampled
Cosmogenic Be-10 data				

BE10NP	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	723742	Published Be-10 concentration
BE10NP_ERR	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	24087	Published 1-sigma uncertainty in Be-10 concentration
BE10EP	Float *[mm.kyr^-1]*	*[value; two decimal places]* or -9999.99 – for not data	62.91	Published Be-10 denudation rate
BE10EP_ERR	Float *[mm.kyr^-1]*	*[value; two decimal places]* or -9999.99 – for not data	5.45	Published 1-sigma uncertainty in Be-10 denudation rate
BESTND	String	07KNSTD KNSTD NIST_Cert NIST_30000 NIST_30200 NIST_30300 NIST_30600 NIST_27900 BEST433 S555 S2007 BEST433N S555N S2007N STD11 LLNL31000 LLNL10000 LLNL3000 LLNL1000 LLNL300 ND – when standard info not provided (KNSTD assumed) NA – when not applicable	S2007N	Name of AMS Be standardisation used; When information is not provided, it is assumed that authors used the KNSTD standardisation as this is was the most commonly used standardisation prior to 2007 at AMS labs in the United States
BECORR	Float *[dimensionless]*	1.0000 *[07KNSTD, NIST_27900, BEST433N, S555N, S2007N, STD11]* 0.9042 *[KNSTD, LLNL10000]*	1.0000	Correction factor for renormalising Be-10 concentration and uncertainty to 07KNSTD standard

		1.0425 *[NIST_Cert]* 0.9313 *[NIST_30000, LLNL1000]* 0.9251 *[NIST_30200]* 0.9221 *[NIST_30300]* 0.9130 *[NIST_30600]* 0.9124 *[BEST433, S555, S2007]* 0.8761 *[LLNL31000]* 0.8644 *[LLNL3000]* 0.8562 *[LLNL300]* -9.9999 – for not data		
BEAMS	String	*[name]* ND – when not provided NA – when not applicable	ETH-Zuerich	Name of AMS where measurements where done
BE10NC	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	723742	Be-10 concentration normalised to 07KNSTD
BE10NC_ERR	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	24087	Uncertainty in Be-10 concentration normalised to 07KNSTD
Cosmogenic Al-26 data				
AL26NP	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	-9999	Published Al-26 concentration
AL26NP_ERR	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	-9999	Published 1-sigma uncertainty in Al-26 concentration
AL26EP	Float *[mm.kyr^-1]*	*[value; two decimal places]* or -9999.99 – for not data	-9999.99	Published Al-26 denudation rate
AL26EP_ERR	Float *[mm.kyr^-1]*	*[value; two decimal places]* or -9999.99 – for not data	-9999.99	Published 1-sigma uncertainty in Al-26 denudation rate
ALSTND	String	KNSTD ZAL94 ZAL94N	NA	Name of AMS Al standardisation used; When information is not provided, it is assumed that authors used the KNSTD standardisation as this is the most common

		SMAL11 Z92-0222 ND – when standard info not provided (KNSTD assumed) NA – when not applicable		
ALCORR	Float *[dimensionless]*	1.0000 *[KNSTD, ZAL94N, Z92-0222]* 0.9134 *[ZAL94]* 1.0210 *[SMAL11]* -9.9999 – for not data	-9.9999	Correction factor for renormalising Al-26 concentration and uncertainty to KNSTD standard
ALAMS	String	*[name]* ND – when not provided NA – when not applicable	NA	Name of AMS where measurements where done
AL26NC	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	-9999	Al-26 concentration normalised to KNSTD
AL26NC_ERR	Integer *[atoms.g^-1]*	*[value]* or -9999 – for not data	-9999	Uncertainty in Al-26 concentration normalised to KNSTD
Denudation rate calculations using Be-10				
BEPROD	Float *[dimensionless]*	*[value; three decimal places]* or -99.999 – for not data	16.148	CAIRN average production scaling correction for the basin
BETOPO	Float *[dimensionless]*	*[value; three decimal places]* or -9.999 – for not data	0.964	CAIRN average topographic shielding correction for the basin
BESELF	Float *[dimensionless]*	*[value; three decimal places]* or -9.999 – for not data	1.000	CAIRN average self shielding correction for the basin
BESNOW	Float *[dimensionless]*	*[value; three decimal places]* or -9.999 – for not data	1.000	CAIRN average snow shielding correction for the basin
BETOTS	Float *[dimensionless]*	*[value; three decimal places]* or -99.999 – for not data	15.606	CAIRN average combined shielding and scaling correction for the basin

EBE_GCMYR	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	0.01499	CAIRN Be-10 denudation rate in mass per unit area
ERRBE_AMS	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	0.00050	CAIRN Be-10 denudation rate uncertainty at 1-sigma level in mass per unit area derived from AMS uncertainty
ERRBE_MUON	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	0.00021	CAIRN Be-10 denudation rate uncertainty at 1-sigma level in mass per unit area derived from muon uncertainty
ERRBE_PROD	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	0.00266	CAIRN Be-10 denudation rate uncertainty at 1-sigma level in mass per unit area derived from uncertainty in the production rate
ERRBE_TOT	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	0.00272	CAIRN Be-10 denudation rate uncertainty at 1-sigma level in mass per unit area that combines all uncertainties
EBE_MMKYR	Float [mm.kyr^-1]	[value; two decimal places] or -9999.99 – for not data	56.56	CAIRN Be-10 denudation rate calculated assuming density of 2650 kg.m^-3
EBE_ERR	Float [mm.kyr^-1]	[value; two decimal places] or -9999.99 – for not data	10.26	CAIRN Be-10 denudation rate uncertainty at 1-sigma level calculated assuming density of 2650 kg.m^-3
Denudation rate calculations using Al-26				
ALPROD	Float [dimensionless]	[value; three decimal places] or -99.999 – for not data	-99.999	CAIRN average production scaling correction for the basin
ALTOPO	Float [dimensionless]	[value; three decimal places] or -9.999 – for not data	-9.999	CAIRN average topographic shielding correction for the basin
ALSELF	Float [dimensionless]	[value; three decimal places] or -9.999 – for not data	-9.999	CAIRN average self shielding correction for the basin
ALSNOW	Float [dimensionless]	[value; three decimal places] or -9.999 – for not data	-9.999	CAIRN average snow shielding correction for the basin
ALTOTS	Float [dimensionless]	[value; three decimal places] or	-99.999	CAIRN average combined shielding and scaling correction for the basin

			-99.999 – for not data	
EAL_GCMYR	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	-9.99999	CAIRN AL-26 denudation rate in mass per unit area
ERRAL_AMS	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	-9.99999	CAIRN AL-26 denudation rate uncertainty at 1-sigma level in mass per unit area derived from AMS uncertainty
ERRAL_MUON	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	-9.99999	CAIRN AL-26 denudation rate uncertainty at 1-sigma level in mass per unit area derived from muon uncertainty
ERRAL_PROD	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	-9.99999	CAIRN AL-26 denudation rate uncertainty at 1-sigma level in mass per unit area derived from uncertainty in the production rate
ERRAL_TOT	Float [g.cm^-2.yr^-1]	[value; five decimal places] or -9.99999 – for not data	-9.99999	CAIRN AL-26 denudation rate uncertainty at 1-sigma level in mass per unit area that combines all uncertainties
EAL_MMKYR	Float [mm.kyr^-1]	[value; two decimal places] or -9999.99 – for not data	-9999.99	CAIRN AL-26 denudation rate calculated assuming density of 2650 kg.m^-3
EAL_ERR	Float [mm.kyr^-1]	[value; two decimal places] or -9999.99 – for not data	-9999.99	CAIRN AL-26 denudation rate uncertainty at 1-sigma level calculated assuming density of 2650 kg.m^-3
Topographic parameters				
PROJECTION	String	[name]	WGS84_UTM_44N	Name of projected coordinate system used for calculations
AREA	Float [km^2]	[value; two decimal places]	65.41	Basin area as calculated from projected DEM
ELEV_AVE	Float [m]	[value; two decimal places]	4449.06	Mean elevation of basin as calculated from projected DEM
ELEV_STD	Float [m]	[value; two decimal places]	597.93	Standard deviation of elevation of basin as calculated from projected DEM
SLP_AVE	Float [m.km^-1]	[value; two decimal places]	512.30	Mean slope gradient of basin as calculated from projected DEM
SLP_STD	Float [m.km^-1]	[value; two decimal places]	181.90	Standard deviation of slope gradient of basin as calculated from projected DEM

TABLE S2: Description of OSL/TL attribute table entries

Field Name	Type & Units	Values	Example	Description
Source of data and version information				
SMPID1	String	*[L###TL###] – for TL* *[L###OSL###] – for OSL*	L139OSL001	Unique sample identifier provided as part of the compilation
SMPID2	String	*[Sample Name]*	NR99001	Original sample identifier (as published)
IGSNID	String	*[IGSN Sample Name]* *or* *NA – for not applicable*	NA	Placeholder for *International Geo Sample Number* unique ID. Not in use and set by default to NA
STUDYID	String	*[S###]*	L139	Unique study identifier provided as part of the compilation
AUTH	String	*[Author Name]*	Eriksson	Surname of the first author of the publication/thesis author
PUBYEAR	Integer	*[YYYY] – Year* *or* 9999 – for data not published	2006	Year of the publication
REFID	String	[*Abbrev_Publ_Name_Vol*] or PhD_Thesis MSc_Thesis Hons_Thesis Not_Published Report_Published Report_Unpublished	Geomorphology_81	Abbreviated name of journal and volume number, or type of publication (i.e., PhD thesis Master thesis, etc.)
REFDOI	String	[*DOI String*] – where available Or *ND – for no data* *NA – for not applicable*	10.1016/j.geomorph.2006.04.001	Digital object identifier (DOI) where available
DBDOI	String	*[DOI String]*	10.4225/48/5a836db1ac9b6	Digital object identifier (DOI) of the TL-OSL sub-collection as provided by UOW Library
DBVER	Integer	*[YYYY]*	2017	Version of the sub-collection. The year when version with DOI provided in DBDOI was published online
Location of sample site				
BASIN	String	*[Name]* or ND – for no data	Murrumbidgee River	River basin from where sample is from; Use name of river or stream sampled; If not available, use name of higher order stream or river

AHGFL1	String	CC – Carpentaria Coast LEB – Lake Eyre Basin MDB – Murray-Darling Basin NEC – North East Coast NWP – North Western Plateau PG – Pilbara-Gascoyne SAG – South Australian Gulf SEN – South East Coast NSW SEV – South East Coast VIC SWC – South West Coast SWP – South Western Plateau TAS – Tasmania TTS – Tanami-Timor Sea Coast	MDB	Geofabric AHGF river region code.
AHGFL2	String	[AHGFCode##] or NA – for basins outside Australia	MDB12	Geofabric AHGF combined river region code (AHGLF1) and topographic drainage division two-digit number
X_WGS84	Float [decimal degree]	[value; six decimal places] or -999 – no data	149.074222	WGS84 latitude of sample site
Y_WGS84	Float [decimal degree]	[value; six decimal places] or -999 – no data	-35.678042	WGS84 longitude of sample site
CORDS	String	ORG – originally published coordinates INTP – coordinates interpolated from the published map BAS – coordinates of river channel nearest to the sample site as identified on the DEM or ND – no data	INTP	Source of coordinates for the sample site
SITENAME1	String	[Name] or ND – for no data	Naas River	Name of the site, first degree such as name of the river
SITENAME2	String	[Name] or ND – for no data	ND	Name of the site, second degree such as locality along the river
SITENAME3	String	[Name]	Terrace 3	Outcrop name or number of the site/trench/core

		or ND – for no data		
Geomorphological features and facies, and type of material sampled				
GEOTYPE	Integer	1 – Terrace 2 – Floodplain 3 – Alluvial Fan 4 – Bench 5 – Island 6 – Slack Water Deposit 7 – Levee 0 – No data	1	Geomorphological type of feature sampled
FACIES	Integer	1 - Channel 2 - Overbank 0 – No data	1	Sedimentological facies type
SITETYPE	String	Outcrop Core Auger hole Pit or Quarry Artificial excavation (trench) or Unknown	Artificial excavation	Type of the site from which samples were extracted
SITETCODE	Integer	1 – Outcrop 2 – Core 3 – Auger hole 5 – Pit or Quarry 6 – Artificial excavation 9 - Unknown	6	Numerical code assigned to each SITETYPE option
DEPTHICK	Float [m]	[#.##] or -999.99 – for no data	-999.99	Total depth of the core or height of the outcrop
SMPDEPTH	Float [m]	[#.##] or -999.99 – for no data	1.35	Depth below the surface from which sample was extracted
MATERIAL	Integer	1 - Sand 2 - Silt	0	Type of stratigraphic unit sampled

		3 – Clay 9 - Bioturbated 0 - Unknown		
Luminescence chronology data				
LUMAGE	Float [ka]	[value]	0.915	Published luminescence age
LUMERR	Float [ka]	[value] or If value is -999.999, means sample reached saturation and author was not able to determine D_e value	0.090	Published luminescence age error
LUMTYPE	String	OSL – Optically Stimulated Luminescence TL – Thermoluminescence	OSL	Type of luminescence method used in age determination
MINERAL	String	Q – Quartz F – Feldspar PM – Polymineral (when grains are < 10 microns)	Q	Type of mineral analysed
SIZEMIN	Integer [μm]	[###] or -999 – for no data	180	Minimum grain size sampled
SIZEMAX	Integer [μm]	[###] or -999 – for no data	212	Maximum grain size sampled
PROTOCOL	String	OSL: SAR – Single Aliquot Regenerative SGR – Single Grain Regenerative MA – Multi-grain Multiple Aliquot Additive Dose TL: AS – 'Australian Slide' MAR – Multiple Aliquot Regenerative MAAD – Multiple Aliquot Additive Dose	SGR	Type of protocol used for luminescence dating

		CRAM – Combined Regenerative and Additive Method ND – for no data		
RESCOR	String	Y – Yes N – No	N	Whether the residual correction was applied; mostly in TL
AGEMODEL	String	OSL: CAM – Central Age Model MAM – Minimum Age Model FMM – Finite Mixture Model MAX – Maximum Age Model PDFG – Pdf Gaussian Age Model TL: Mean ND – for no data	MAM	Type of age model applied for age determination
PLAT_REG	String *[°C]*	*[range]* or NA – not applicable, for OSL	NA	Pre-heat plateau region, for TL only; not applicable to OSL
AN_TEMP1	Integer *[°C]*	*[###]* or -999 – for no data	240	Specific temperature at which analysis performed, for TL; or pre-heat temperature 1 for OSL
AN_TEMP2	Integer *[°C]*	*[###]* or -999 – for no data	125	Pre-heat temperature 2 for OSL, and from which analytical data was obtained for age determination
NALIQUOTS	Integer	*[value]* *or* *-999 – for no data*	-999	Number of aliquots measured in either TL or OSL
NGR_MEAS	Integer	*[value]* *Or* *-999 – not applicable for all the other techniques and methods than SGR OSL*	-999	Number of grains measured during the analysis; SGR protocol in OSL only
NGR_ACC	Integer	-999 – *not applicable for all the other techniques and methods than SGR OSL*	-999	Number of grains accepted after the analysis; SGR protocol in OSL only

		Or -999 – for no data		
EQUIVDOSE	Float *[Gy]*	*[value]*	3.790	Equivalent dose (ED) or Dose equivalent (De) in OSL; Palaeodose in TL, used for age determination
ED_ERR	Float *[Gy]*	*[value]*	0.200	Published error for the dose
ED_SAT	Float *[Gy]*	*[value]* or -999.99 – for no data	-999.99	Equivalent dose (ED) for saturated age; mostly in TL
ED_SATERR	Float *[Gy]*	*[value]* or -999.99 – for no data	-999.99	Published error for saturated age
OD	Float *[%]*	*[value]* or -999.99 – for no data	-999.99	Overdispersion, value representing spread of data in aliquot or single grain data
OD_ERR	Float *[%]*	*[value]* or -999.99 – for no data	-999.99	Published error for overdispersion
Radiation dose data				
DOSERATE	Float *[Gy/ka]*	*[value]*	0.004	Dose rate, representing total dose of radiation received by the sample (in OSL) or annual radiation dose (in TL)
DR_ERR	Float *[Gy/ka]*	*[value]*	0.000	Published error for the dose rate
K_CONTENT	Float *[%]*	*[value]* or -999.99 – for no data	-999.99	Potassium (K) content within the sample
K_CONTERR	Float *[%]*	*[value]* or -999.99 – for no data	-999.99	Published error for potassium content
RB_CONTENT	Float *[ppm]*	*[value]* or -999.99 – for no data	-999.99	Rubidium (Rb) content, mainly provided in TL data set
U_TH	Float *[Bq/kg]*	*[value]* or	-999.99	Elemental content expressing activity of radioactive elements (specific activity), mainly used in TL

		-999.99 – for no data		
U_TH_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	-999.99	Published error for U + Th specific activity
U238	Float [Bq/kg]	[value] or -999.99 – for no data	36.00	^{238}U content from High Resolution Gamma Spectrometry (HRGS)
U238_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	2.00	Published error value
RA226	Float [Bq/kg]	[value] or -999.99 – for no data	31.40	^{226}Ra content from High Resolution Gamma Spectrometry (HRGS)
RA226_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	0.20	Published error value
PB210	Float [Bq/kg]	[value] or -999.99 – for no data	25.80	^{210}Pb content from High Resolution Gamma Spectrometry (HRGS)
PB210_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	1.60	Published error value
TH232	Float [Bq/kg]	[value] or -999.99 – for no data	59.20	^{232}Th content from High Resolution Gamma Spectrometry (HRGS)
TH232_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	0.60	Published error value
K40	Float [Bq/kg]	[value] or -999.99 – for no data	758.00	^{40}K content from High Resolution Gamma Spectrometry (HRGS)
K40_ERR	Float [Bq/kg]	[value] or -999.99 – for no data	12.00	Published error value
U	Float [Bq/kg]	[value] or	-999.99	Uranium (U) content in the sample

		-999.99 – for no data		
U_ERR	Float *[Bq/kg]*	*[value]* or -999.99 – for no data	-999.99	Published error for uranium content
TH	Float *[ppm]*	*[value]* or -999.99 – for no data	-999.99	Thorium (Th) content in the sample
TH_ERR	Float *[ppm]*	*[value]* or -999.99 – for no data	-999.99	Published error for thorium content
ALPHA	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	0.04	Measured or assumed alpha radiation values used for age determination
ALPHA_ERR	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	0.02	Published error value
BETA	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Measured beta radiation values used for age determination
BETA_ERR	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Published error value
GAMMA	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Measured gamma radiation values used for age determination
GAMMA_ERR	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Published error value
COSMIC	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Cosmic ray contribution to the dose of radiation received by the sample
COSMIC_ERR	Float *[Gy/ka]*	*[value]* or -999.99 – for no data	-999.99	Published error value
H2O	Float *[%]*	*[value]* or	6.10	Water content in the sample

		-999.99 – for no data		
H2O_ERR	Float [%]	*[value]* or -999.99 – for no data	-999.99	Published error value

Additional information

DRMETHOD	String	LAB – dose rate data acquired only true analytical method FIELD + LAB – dose rate data acquired by field and lab measurements	LAB	Dose rate method of data acquisition
TSAC	String	Y – Yes N – No or NA – not applicable	N	Thick-source alpha counting; OSL and TL
BETA	String	Y – Yes N – No or NA – not applicable	N	Beta particle counting, mainly OSL
HRGS	String	Y – Yes N – No or NA – not applicable	Y	High resolution gamma spectrometry
ICP_MS_OES	String	Y – Yes N – No or NA – not applicable	N	ICP-MS/ICP-OES for neutron activation
FP_TSAC	String	Y – Yes N – No or NA – not applicable	NA	Flame Photometry paired with thick-source alpha counting; TL only
DOSERECOV	String	Y – Yes N – No or NA – not applicable	N	Whether dose recovery was applied during age determination