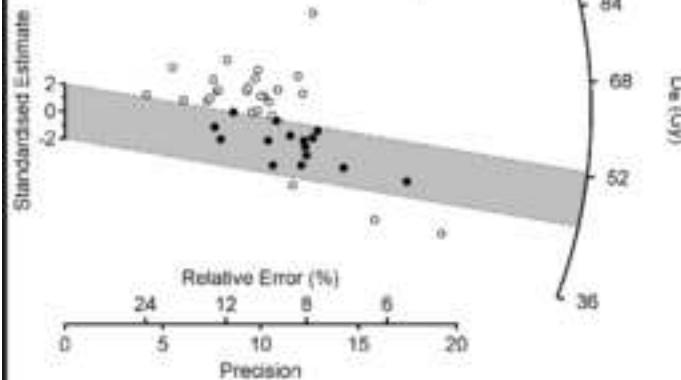
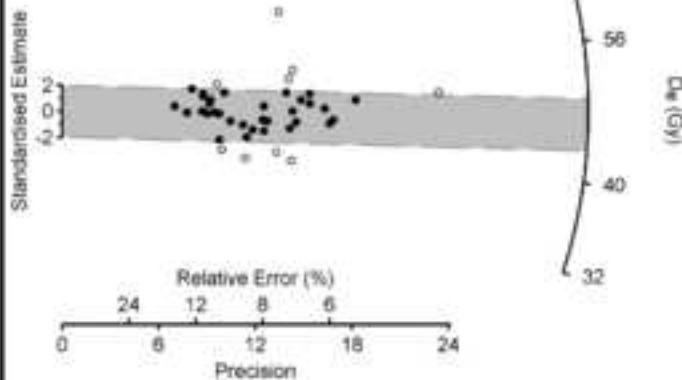


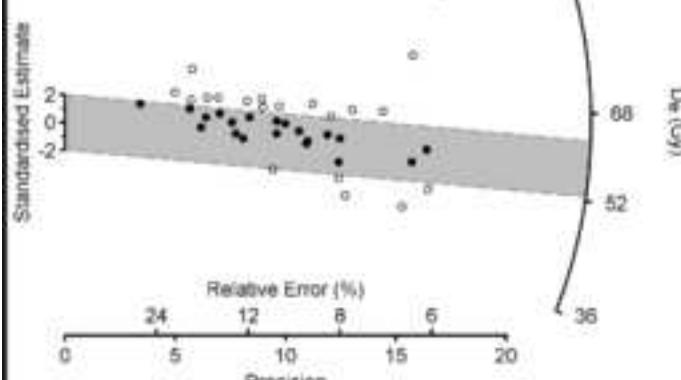
**CB1**



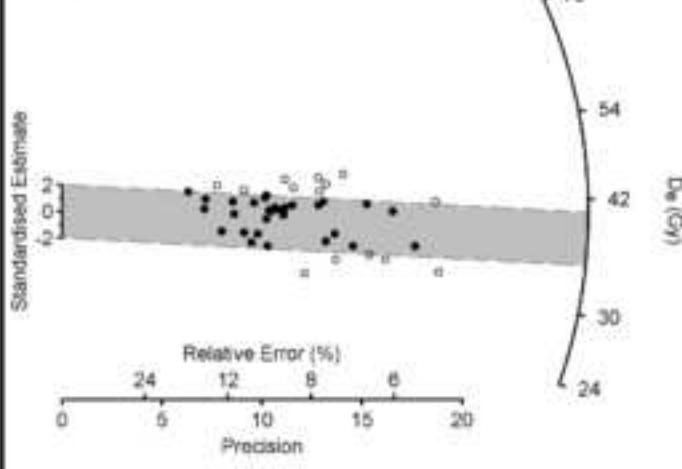
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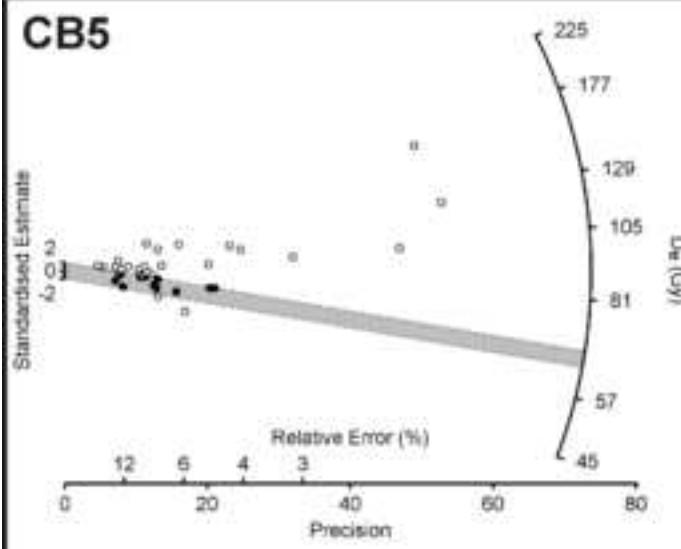
**CB3**



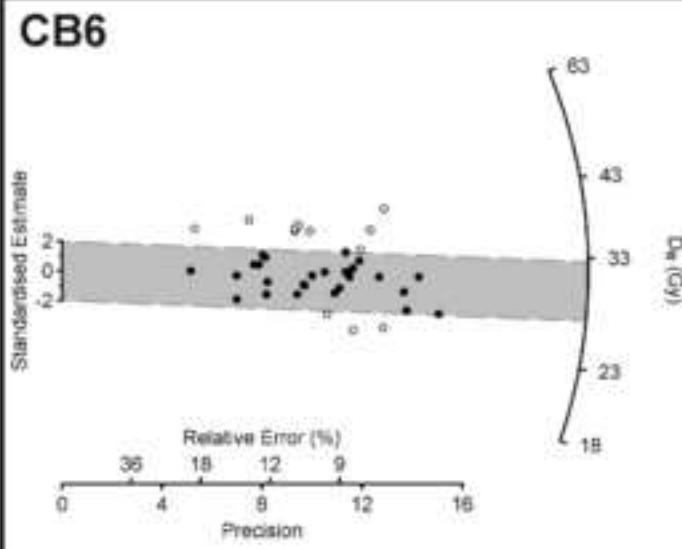
**CB4**



**CB5**



**CB6**



**Supplemental Material (Online Only)**  
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1   Supplementary Table 1: SED ages as calculated from alternative scaling systems using the Cronus Online Calculator (Balco et al., 2008): \* Lifton et al. (2005),  
 2   \*\* Lal (1991) and Stone (2000), \*\*\* Desilets and Zreda (2003) and Desilets et al. (2006), \*\*\*\* Dunai (2001)  
 3

Sample	Lifton et al. *		Lal and Stone **	Desilet and Zreda ***	Dunai ****	Lal and Stone timedependent		
			[ka]	[ka]	[ka]	[ka]	[ka]	
		[ka]		[ka]		[ka]		
HH11 ***	13.8	± 1.5	16.6	± 1.6	13.9	± 1.8	14.0	± 1.8
HH12 ***	11.2	± 1.2	13.5	± 1.3	11.2	± 1.4	11.3	± 1.4
HH13 ***	12.3	± 1.4	14.8	± 1.5	12.4	± 1.6	12.5	± 1.6
HH21 ***	13.9	± 1.5	16.7	± 1.6	14.0	± 1.7	14.1	± 1.7
HH22 ***	11.8	± 1.2	14.2	± 1.3	11.8	± 1.5	11.9	± 1.5
HH31 ***	10.3	± 1.1	12.4	± 1.2	10.4	± 1.3	10.4	± 1.3
HH32 ***	11.1	± 1.2	13.3	± 1.3	11.2	± 1.4	11.2	± 1.4
HH41 ***	12.0	± 1.3	14.2	± 1.4	12.0	± 1.5	12.1	± 1.5
HH43 ***	11.6	± 1.3	13.9	± 1.4	11.7	± 1.5	11.8	± 1.5
HH51 ***	17.8	± 1.9	21.7	± 2.1	18.0	± 2.2	18.4	± 2.3
HH52 ***	15.3	± 1.6	18.3	± 1.7	15.4	± 1.9	15.6	± 1.9
HL11	20.7	± 2.5	25.4	± 2.8	21.0	± 2.8	21.5	± 2.9
HL12	15.1	± 1.7	17.9	± 1.9	15.2	± 2.0	15.4	± 2.0
HL21	19.4	± 2.1	23.6	± 2.3	19.6	± 2.5	20.0	± 2.5
HL22	7.7	± 0.8	9.4	± 0.9	7.7	± 1.0	7.7	± 1.0
HL31	7.3	± 0.8	9.0	± 0.9	7.3	± 0.9	7.3	± 0.9
HL43	17.2	± 1.9	20.6	± 2.1	17.4	± 2.2	17.7	± 2.3
HL51	18.8	± 2.0	22.8	± 2.2	19.0	± 2.4	19.4	± 2.4
HL52	23.7	± 3.2	29.6	± 3.7	24.0	± 3.6	24.7	± 3.7
HL61	36.1	± 3.9	49.0	± 4.7	36.7	± 4.6	37.5	± 4.7
HL62	70.6	± 7.5	100.6	± 9.7	72.7	± 9.1	74.9	± 9.4
HL71	12.9	± 1.4	15.2	± 1.5	13.0	± 1.6	13.1	± 1.6
HL72	9.2	± 1.0	10.9	± 1.0	9.2	± 1.1	9.2	± 1.1
HL83	14.0	± 1.6	16.2	± 1.6	14.0	± 1.8	14.2	± 1.8

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