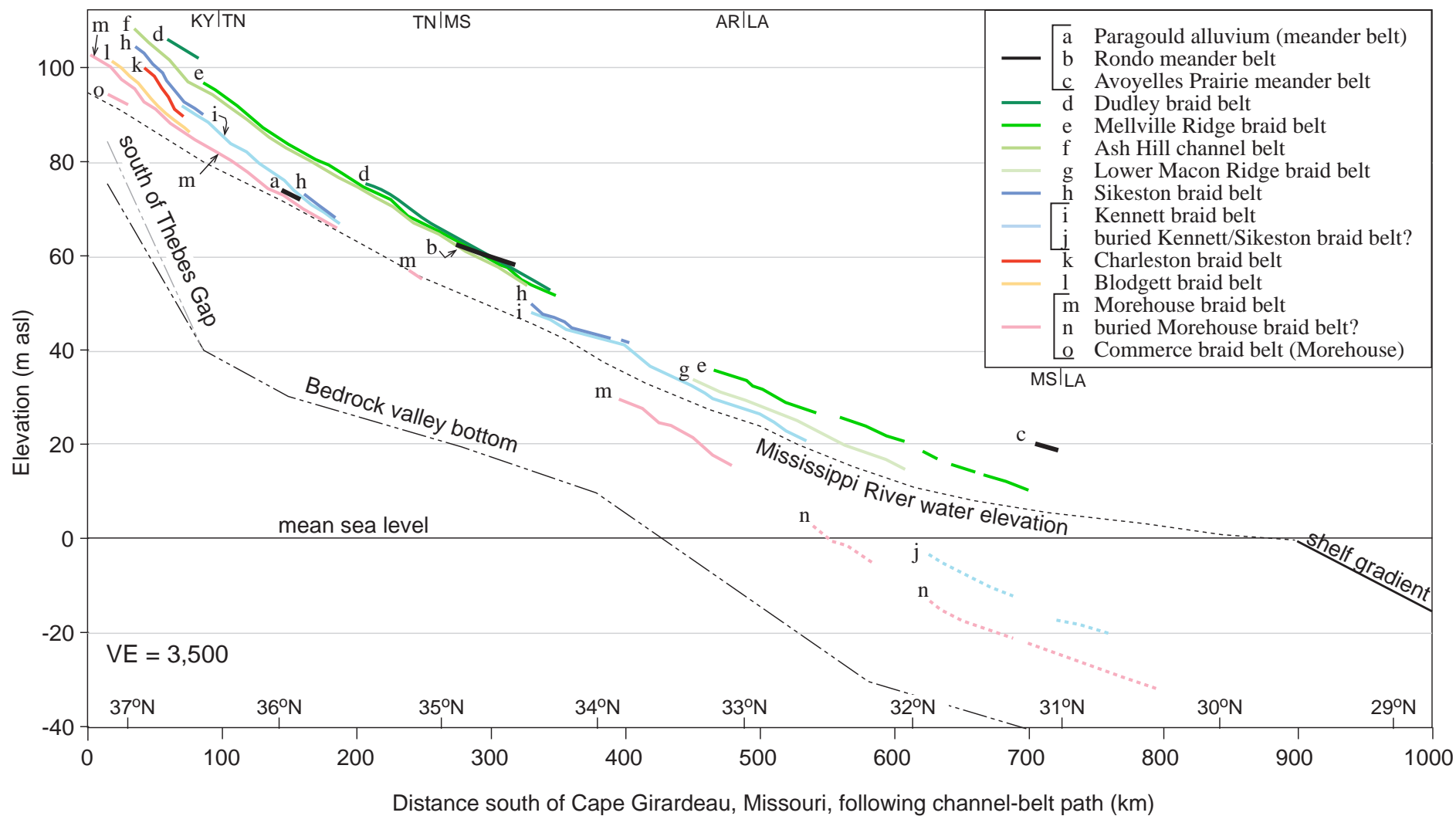


TABLE DR1. RADIOCARBON AGE CONSTRAINT ON ALLUVIAL DEPOSITS AND LANDFORMS IN THE LOWER MISSISSIPPI VALLEY.  
SITE NUMBERS REFER TO SAMPLE LOCALITIES ON FIGURES 2, 3, AND 8.

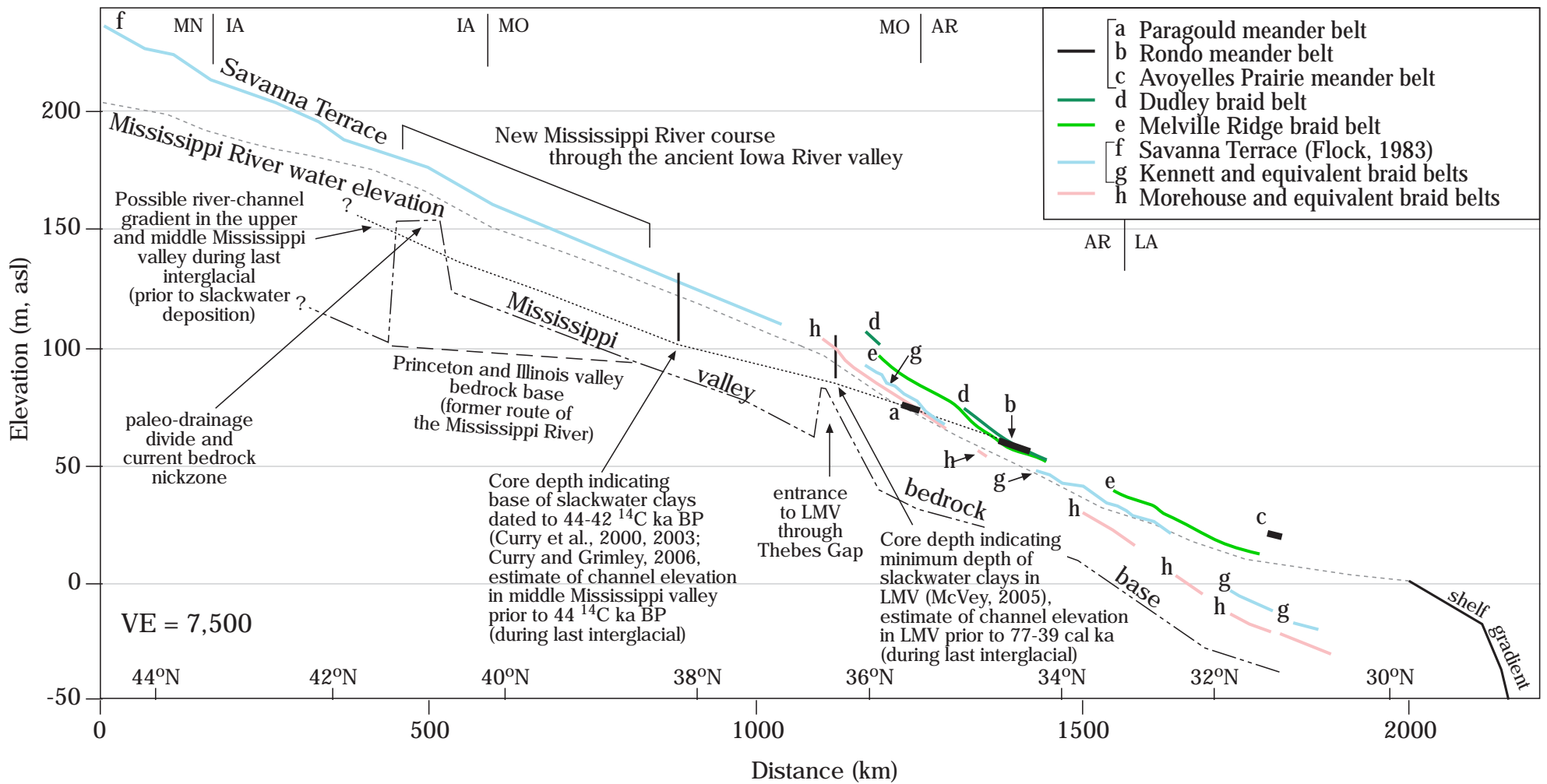
Site No.	Lab number	Reference	Location	Saucier (1994) map unit	Channel-belt name (this study)	Depositional context	Material sampled	<sup>14</sup> C age yr. B.P.	cal. ka <sup>†</sup>	Interpretation (this paper)
Braid belts in the Eastern and Western Lowlands (Fig. 3)										
HL	Beta-22658	Delcourt et al., 1997	Hood Lake Poinsett Co. Arkansas	Pve 2	Melville Ridge	Base of lacustrine deposition	Bulk lake sediment	10,080 ± 230	<b>11.8 ± 0.9</b>	Minimum age for Melville Ridge braid belt
PFS	Beta-15321	Royall et al., 1991	Powers Fort Swale, Butler Co., Missouri	Pve 2	Ash Hill	Lower braid channel-fill sand	Bulk sediment	17,370 ± 170	<b>20.6 ± 0.5</b>	Minimum age for the Ash Hill braid belt
MT	Beta-77068	Blum et al., 2000	Mariana core transect, Arkansas	Pve 3	minor flow through Marianna Gap	Stratified silt	Wood	20,240 ± 310	<b>24.4 ± 0.9</b>	Age of last flow through Marianna Gap
SE	Beta-106258	Blum et al., 2000	near Jonesboro, Arkansas	Pve 4	Sikeston (Jonesboro seg.)	Channel-belt sand under loess	Plant material	16,570 ± 60	<b>19.7 ± 0.2</b>	Age of the Sikeston braid belt
LC	I-10,197	Grissinger et al., 1982	Lick Creek, Phillips Co. Arkansas	Pvl 2	Sikeston (Oneida segment)	Alluvial fill of Lick Creek	<i>Fagus</i> sp. wood	9,510 ± 140	<b>10.8 ± 0.4</b>	Minimum age for Oneida(Sikeston) braid belt
MD	Beta-41984	Wesnousky and Leffler, 1992	Ditch near Manila, Arkansas	Pvl 2	Kennett	Lower braid channel-fill muds	Bark-covered wood	11,100 ± 100	<b>13.0 ± 0.2</b>	Minimum age for the Kennett braid belt
PL	NZA-1000	Wesnousky and Leffler, 1992	Ditch south of Kennett, Missouri	Pvl 2	Kennett	Upper braid channel-belt sands	Amino acids from paleollama	10,890 ± 130	<b>12.9 ± 0.2</b>	Minimum age for the Kennett braid belt
CF	Beta-39454	Porter and Guccione, 1994	near Charleston, Missouri	Pvl 1	Charleston	Base of back-swamp mud over fan	Whole soil	10,590 ± 200	<b>12.4 ± 0.5</b>	Minimum age for the Charleston braid belt
BL	Beta-17028	Guccione et al., 1988	Big Lake near Manila, Arkansas	Pvl 1	Morehouse	Base of back-swamp mud over fluvial sand	Bulk sediment	9050 ± 150	<b>10.1 ± 0.4</b>	Minimum age for the Morehouse braid belt
OF	ISGS-326	King and Allen, 1977	Old Field site Advance, Missouri	Pvl 1	Morehouse	Base of peat over fluvial sand	Peat	8810 ± 90	<b>9.9 ± 0.3</b>	Minimum age for the Morehouse braid belt
TG	AA-4805	Gramley and Funk, 1991	6m above river, Thebes Gap, Illinois	Thebes Gap	Thebes Gap	Pre-Dalton horizon in archeologic site	charcoal	9975 ± 125	<b>11.6 ± 0.4</b>	Minimum age for the erosion of Thebes Gap
TG	Beta-32366, ETH-5671	Gramley and Funk, 1991	6m above river, Thebes Gap, Illinois	Thebes Gap	Thebes Gap	Dalton horizon in archeologic site	charcoal (AMS)	9115 ± 100	<b>10.3 ± 0.3</b>	Minimum age for the erosion of Thebes Gap
Cache Valley of the Ohio River (Fig. 3)										
-	ISGS 1269	Esling et al., 1989	Cache Valley	Ptb	Brownfield terrace in Cache valley	Organics near top of outwash	organic material	25,343 ± 450	<b>NA</b>	Maximum age of Brownfield terrace
-	ISGS 1265	Graham, 1985	Cache Valley	Hal	Holocene Alluvium	Holocene alluvium from Cache River	disseminated organics	8160 ± 180	<b>9.1 ± 0.5</b>	Minimum age for abandonment of Cache Valley
Braid belts on Macon Ridge (Fig. 8)										
FP1	G-110	Saucier, 1968	Franklin Parish, Louisiana	Pve 3	Lower Macon Ridge	Shell-rich sediment over fluvial sand, under loess	Fresh-water snails	31,200 ± 2400	<b>NA</b>	Minimum age of Lower Macon Ridge braid belt
FP2	GXO-844	Saucier, 1968	Franklin Parish, Louisiana	Pve 3	Lower Macon Ridge	Shell-rich sediment over fluvial sand, under loess	Fresh-water snails	29,100 ± 1200	<b>NA</b>	Minimum age of Lower Macon Ridge braid belt

Evidence for initiation of meandering (Fig. 3)										
BL	Beta-17028	Guccione et al., 1988	Big Lake near Manila, Arkansas	Pvl 1	Morehouse	Base of backswamp mud over fluvial sand	Bulk sediment	9050 ± 150	<b>10.1 ± 0.4</b>	Minimum age for the initiation of meandering
PB	Beta-17030	Guccione, 1987	Pemscott Bayou, Arkansas	Hps	Small meander belt that cross-cuts Morehouse	natural levee and crevasse splay	Bulk sediment	8530 ± 300	<b>9.5 ± 0.8</b>	Minimum age for the initiation of meandering
PM	ISGS NO A-0093	Holbrook et al., 2006	Portageville meander, Missouri	Hpm 1	Portageville meander	channel-fill mud in abandoned channel loop	single seed	5414 ± 60	<b>6.2 ± 0.2</b>	Minimum age for the initiation of meandering
Buried channel belts near Natchez, Mississippi (Fig. 8)										
F1	CAMS 7194	Aslan and Autin, 1999	near Ferriday Mississippi	Hb over substratum	backswamp mud over channel belt	base of mud over channel-belt sand	Bulk sediment	16,600 ± 140	<b>19.7 ± 0.3</b>	Maximum age for buried channel belt
Buried channel belts in the Achafalaya Basin west of Baton Rouge (Fig. 2)										
A1	O-277	McFarlan, 1961	east of Opelousas, Louisiana	Hb over substratum	backswamp mud over Kennett/Sikeston	base of mud over channel-belt sand	wood fragment (-18 m asl)	9600 ± 200	<b>10.9 ± 0.7</b>	Minimum age for upper buried surface (Kennett/Sikeston)
A2	O-264	McFarlan, 1961	I-10 east of Achafalaya River, Louisiana	Hb over substratum	backswamp mud over Morehouse	base of mud over channel-belt sand	wood fragment (-32 m asl)	9950 ± 200	<b>11.5 ± 0.7</b>	Minimum age for lower buried surface (Morehouse)
A3	O-276	McFarlan, 1961	I-10 east of Achafalaya River, Louisiana	Hb over substratum	backswamp mud over Morehouse	base of mud over channel-belt sand	wood fragment (-29 m asl)	9700 ± 200	<b>11.1 ± 0.7</b>	Minimum age for lower buried surface (Morehouse)
A4	O-278	McFarlan, 1961	I-10 east of Achafalaya River, Louisiana	Hb over substratum	backswamp mud over Morehouse	base of mud over channel-belt sand	wood fragment (-30 m asl)	9650 ± 200	<b>11.1 ± 0.6</b>	Minimum age for lower buried surface (Morehouse)

<sup>†</sup> Radiocarbon ages converted to calendar years by CALIB 5.0 (Stuiver and Reimer, 1993) using IntCal04 (Reimer et al., 2004) and reported as the midpoint of the two sigma range. Samples older than 21.4 <sup>14</sup>C ka BP shown in radiocarbon years.



Rittenour Fig. DR1



Rittenour, Fig. DR2