



Fig. 7. (a) Locations of the six regions of dark terrain ("A"-"F") for which poles of furrow concentricity were calculated. Regions "A" and "B" form area 1; "C" and "D" form area 2; "E" forms area 3; and "F" forms area 4. Base material is USGS global airbrush map. (b) Areas of dark terrain for which furrow poles were calculated, shown in bracketed numerals: 1, Galileo Regio; 2, northern Marius Regio plus extreme northwestern central Marius Regio; 3, central Marius Regio; and 4, southern Marius Regio. Lineaments defining the boundaries of possibly laterally offset blocks and the zone of distributed shear are shown in dashed lines labeled with Roman numerals. The young dark terrain troughs in Galileo Regio and central Marius Regio are shown as heavy dotted lines. "A" and "B" are the locations of left-laterally offset structures, and "C" and "D" are the locations of right-laterally offset structures. Major occurrences of reticulate terrain are marked "r." Base material is USGS global airbrush map. (c) System I arcuate furrows, furrow poles, and uncertainties in their determination. Ellipses around the average poles for each area enclose 63% of the poles of small circles defined by pairs of furrow segments and approximate 1.4-sigma uncertainties. The star is the center of arcuate furrow curvature suggested by *Schenk and McKinnon* [1987].

TABLE 1. Poles of Concentricity of System I and III Arcuate Furrows

Study	Area		Constituent Regions	Pole Position
	Number	Assigned Name		
<i>Zuber and Parmentier</i> [1984a]	1	Galileo Regio	A,B	39°S,175°W
		Northern Marius Regio	C	25°N,177°W
		Central and Southern Marius Regio	D,E,F	2°S,183°W
<i>Schenk and McKinnon</i> [1987]	1	Galileo Regio (overall)	A,B	32°S,189°W
		Galileo Regio (<75° from center)	A,B	27°S,183°W
	4	Central Marius Regio	D,E	25°S,170°W
		Southern Marius Regio	F	20°S,183°W
	system I	Overall		21°S,179°W
	system III	Perrine Regio		56°N,46°W
This study	1	Galileo Regio	A,B	22°S,183°W
		Eastern Galileo Regio	A	22°S,179°W
		Western Galileo Regio	B	22°S,187°W
	2	Northern Marius Regio	C,D	1°N,187°W
		3	Central Marius Regio (east, west portions weighted equally)	E
	Central Marius Regio (east, west portions weighted by number of furrows in each)		E	15°S,176°W
	4	W Central Marius Regio	E, west of 170°W	15°S,178°W
Southern Marius Regio		F	15°S,200°W	