

**25—PLANETARY GEOLOGY FEATURES**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
25.1	Contact, planetary—Certain		<i>lineweight .15 mm</i>	
25.2	Contact, planetary—Approximate		<i>3.5 mm</i> <i>1.0 mm</i>	
25.3	Contact, planetary—Inferred		<i>1.5 mm</i> <i>1.0 mm</i>	
25.4	Contact, planetary—Concealed		<i>.5 mm</i> <i>.5 mm</i>	
25.5	Fault, planetary, sense of offset unspecified—Certain		<i>lineweight .375 mm</i>	
25.6	Fault, planetary, sense of offset unspecified—Approximate		<i>3.5 mm</i> <i>1.0 mm</i>	
25.7	Fault, planetary, sense of offset unspecified—Inferred		<i>1.5 mm</i> <i>1.0 mm</i>	
25.8	Fault, planetary, sense of offset unspecified—Concealed		<i>.5 mm</i> <i>.5 mm</i>	
25.9	Fault, planetary, normal offset—Certain		<i>1.0 mm</i> <i>.875 mm diameter</i> <i>lineweight .375 mm</i> <i>.15 mm</i>	Ball and bar on down-thrown block.
25.10	Fault, planetary, normal offset—Approximate		<i>3.5 mm</i> <i>1.0 mm</i>	
25.11	Fault, planetary, normal offset—Inferred		<i>1.5 mm</i> <i>1.0 mm</i>	
25.12	Fault, planetary, normal offset—Concealed		<i>.5 mm</i> <i>.5 mm</i>	
25.13	Fault, planetary, right-lateral offset—Certain		<i>lineweight .375 mm</i> <i>25°</i> <i>1.75 mm</i> <i>5.0 mm</i> <i>arrow lineweight .15 mm</i>	Arrows show direction of relative offset.
25.14	Fault, planetary, right-lateral offset—Approximate		<i>3.5 mm</i> <i>1.0 mm</i>	
25.15	Fault, planetary, right-lateral offset—Inferred		<i>1.5 mm</i> <i>1.0 mm</i>	
25.16	Fault, planetary, right-lateral offset—Concealed		<i>.5 mm</i> <i>.5 mm</i>	
25.17	Fault, planetary, left-lateral offset—Certain		<i>lineweight .375 mm</i> <i>1.75 mm</i> <i>25°</i> <i>5.0 mm</i> <i>arrow lineweight .15 mm</i>	Arrows show direction of relative offset.
25.18	Fault, planetary, left-lateral offset—Approximate		<i>3.5 mm</i> <i>1.0 mm</i>	
25.19	Fault, planetary, left-lateral offset—Inferred		<i>1.5 mm</i> <i>1.0 mm</i>	
25.20	Fault, planetary, left-lateral offset—Concealed		<i>.5 mm</i> <i>.5 mm</i>	

**25—PLANETARY GEOLOGY FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
25.21	Graben trace, planetary—Certain (shown as single line where bounding normal faults cannot be mapped separately)		lineweight .375 mm 	
25.22	Graben trace, planetary—Approximately located (shown as single line where bounding normal faults cannot be mapped separately)		3.5 mm 	
25.23	Graben trace, planetary—Inferred (shown as single line where bounding normal faults cannot be mapped separately)		1.5 mm 	
25.24	Graben trace, planetary—Concealed (shown as single line where bounding normal faults cannot be mapped separately)		.5 mm 	
25.25	Thrust fault, planetary—Certain		lineweight .375 mm 65° sawtooth height 1.5 mm; spacing 6.0 mm	Sawteeth on upper plate.
25.26	Thrust fault, planetary—Approximately located		5.0 mm 	
25.27	Thrust fault, planetary—Inferred		2.0 mm 	
25.28	Thrust fault, planetary—Concealed		.5 mm 	
25.29	Ridge crest, type 1, planetary		3.0 mm 65° lineweight .25 mm	Barbs point downslope.
25.30	Ridge crest, type 2, planetary		3.0 mm 65° all lineweights .25 mm	
25.31	Ridge crest, type 1, planetary—Arrowhead shows abrupt termination of ridge		65° 1.375 mm 	Line end without arrowhead indicates gradual termination of ridge.
25.32	Scarp base, planetary		all lineweights .25 mm 1.5 mm 65° 	Barbs point downslope.
25.33	Trough or narrow depression, planetary		lineweight .25 mm 65° 3.0 mm 65° 	
25.34	Furrow, planetary		lineweight .25 mm 1.75 mm 1.75 mm 	
25.35	Sharp groove, planetary		all lineweights .25 mm 1.5 mm .825 mm 	
25.36	Subdued groove, planetary		all lineweights .25 mm 1.5 mm 	
25.37	Scarp top, planetary		lineweight .25 mm 5.0 mm hachure lineweight .2 mm; height 1.0 mm 	Hachures point downslope.
25.38	Lobate scarp, planetary		all lineweights .25 mm 2.0 mm hachure height 1.0 mm 	
25.39	Basal scarp, planetary		all lineweights .25 mm 3.0 mm hachure height 1.25 mm 	
25.40	Dome or circular scarp, planetary		lineweight .25 mm hachure lineweight .2 mm; height 1.25 mm; spacing 1.25 mm 	
25.41	Depression, planetary		lineweight .25 mm hachure lineweight .2 mm; height .875 mm; spacing 3.5 mm 	

**25—PLANETARY GEOLOGY FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
25.42	Lineament, planetary		lineweight .3 mm 	
25.43	Shallow or linear depression, valley, or channel, planetary		lineweight .25 mm line color 100% cyan long dash 4.0 mm; short dash .375 mm; space .375 mm	
25.44	Joint or fracture pattern, planetary		 pattern 430-K	
25.45	Area of reticulate grooves, planetary—Showing trend		 pattern 327-K	
25.46	Crest of crater rim, planetary		lineweight .25 mm hachure lineweight .2 mm; height .75 mm; spacing may vary from 3.0 to 6.25 mm	Hachures point into crater.
25.47	Crest of buried crater rim, planetary		lineweight .25 mm long dash 3.0 mm; short dash .375 mm; space .375 mm	
25.48	Crater, planetary—Showing central peak		all lineweights .2 mm ellipse width 1.875 mm; height 2.625 mm	Hachures point down-slope.
25.49	Crater, planetary—Showing central peak (shown as 'plus' when too small to outline at map scale)		all lineweights .2 mm 2.375 mm	
25.50	Crater floor, planetary—Showing pit		lineweight .2 mm	
25.51	Crater floor, planetary—Showing pit (shown as 'dot' when too small to outline at map scale)		dot diameter .875 mm	
25.52	Impact crater, planetary—Having a raised rim and a visible ejecta blanket		lineweight .15 mm	Hachures point into crater.
25.53	Complex impact crater, planetary—Peak at center, surrounded by floor, rim crest, and rough rim or continuous ejecta or field of secondary craters		lineweight .15 mm	
25.54	Palimpsest ring, planetary		dot diameter .875 mm; spacing .375 mm	
25.55	Dark-colored ejecta, planetary		pattern 428-K	May be shown in red or other colors.
25.56	Light-colored ejecta, planetary		pattern 429-K	
25.57	Terrace deposits, planetary		pattern 427-K	May be shown in red or other colors.
25.58	Dark-colored mantling material, planetary		pattern 214-K (@ 45°)	
25.59	Secondary crater field, planetary		pattern 102-R	May be shown in black or other colors.
25.60	Diffuse highland-lowland boundary scarp, planetary		pattern 134-R	

**25—PLANETARY GEOLOGY FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
25.61	Chain craters or collapsed lava tube, planetary		lineweight .2 mm 	Hachures point into crater.
25.62	Caldera, planetary		lineweight .25 mm hachure lineweight .2 mm; height .625 mm; spacing .875 mm 	
25.63	Volcano, planetary, without summit crater—Queried if origin is conjectural		lineweight .15 mm 	
25.64	Volcano, planetary, with summit crater		lineweight .15 mm 	
25.65	Flow front, planetary—Arrow indicates flow direction		lineweight .25 mm 1.375 mm 1.125 mm 40° arrow lineweight .25 mm 	
25.66	Mountain (rugged), planetary—Origin uncertain		lineweight .2 mm (screened to retain 50%) 	
25.67	Channel bars, planetary—May be erosional or depositional		lineweight .2 mm (screened to retain 30%) 	
25.68	Slide or slump material, planetary—Arrow indicates direction of movement		lineweight .25 mm arrow lineweight .2 mm 2.5 mm 1.75 mm 60° 	
25.69	Layering in canyon wall, planetary		lineweight .2 mm  lengths and spacing will vary	