



Building Mars

A COMMUNITY-BUILT LEGOSCAPE · EAPS · FALL 2026

Document List

Every file in the project and what to call it. The names here are the names to use everywhere else, so that a sheet asked for in an email is the same sheet that comes off the printer. Phase 1 items are needed from September, Phase 2 items from November, and the Baseplate Template serves both.

PRINT

NAME	SIZE	PAGES	WHAT IT IS	PRINTING
Instruction Sheet - Phase 1	Letter	1 page	How it works, the three bands, plates to elevation, and the stack diagram. Lives on the table beside the board from September.	print on good paper
Instruction Sheet - Phase 2	Letter	1 page	The ten geological units, with the same five steps. Replaces Phase 1 on the table in November.	print on good paper
Mapping Sheets - Phase 1	Letter	18 pages	One page per baseplate, I to XVIII. Stack height printed in every square. No colour, so a black and white printer is fine.	print and laminate all 18
Mapping Sheets - Phase 2	Letter	18 pages	One page per baseplate. Unit number in every square over an approximation of the brick colour. Needs colour.	hold back until November
Global Reference Poster - Phase 1	36 × 20 in	1 page	The whole board coloured by stack height, with the baseplate numerals over the top. Goes on the wall.	large format, colour
Global Reference Poster - Phase 2	36 × 20 in	1 page	The same board coloured by geological unit. Replaces Phase 1 on the wall in November.	large format, colour
Baseplate Template	62.0 × 34.2 in	1 page	Full size, 1:1. The eighteen baseplates mount onto it and the grid labels stay visible in the margin. There is only one, and it serves both phases.	print at 100%, no fit-to-page
Bin Labels	Letter	3 pages	Three band labels (DG, LG, W) and ten unit labels, six to a page.	cut, laminate, tape to lids
Cards - Builder	Letter	1 page	Eight business cards carrying the build rule. For pockets and for leaving on the table.	card stock
Cards - Off the Chart	Letter	1 page	Eight business cards explaining the three squares that rise above the printed colour scale.	card stock
Cards - Mission Accomplished	Letter	2 pages	One card per baseplate, I to XVIII. Goes on top of a baseplate once it is finished, so nobody hunts for work that is already done.	card stock, cut 18
Document List	Letter	1 page	This page.	

BRAND

NAME	SIZE	PAGES	WHAT IT IS	PRINTING
logo_mark	SVG, PNG	–	The mark on its own: four ridges inside a circle of night sky. Used in every header.	vector
logo_mark_mono	SVG	–	Single colour, for laser printing and stamps.	vector
logo_lockup	PNG	–	Mark plus wordmark, for slides and the website.	
logo_badge	SVG, PNG	–	The circular sticker, with the name curved around the top and the strapline around the bottom. Font embedded.	cuts at 50 or 38 mm

SOURCE

NAME	SIZE	PAGES	WHAT IT IS	PRINTING
units.csv	CSV	10 rows	The ten geological units: name, LEGO colour, element ID, brick RGB and cell count. Everything downstream reads from here.	
bands.csv	CSV	3 rows	DG, LG and W, with colours, element IDs and counts.	
legoscape.py	Python	–	Board geometry, the elevation conversion, the band cycle and the inverse map projection.	
count_plates.py	Python	–	Plate counts by height, by band, by unit and by baseplate.	
make_print_pack.py	Python	–	Instruction sheets, mapping sheets, bin labels, cards, this list.	
make_base_sheet.py	Python	–	Baseplate Template and both Global Reference Posters.	
make_logo.py	Python	–	Builds the mark and the badge.	
make_cpt.py	Python	–	Regenerates mars_geo.cpt from units.csv in brick colours.	

WHERE THEY LIVE

Printable files in **print/**, logos in **brand/**, everything that generates them in **scripts/**, and the two reference tables in **input_data/**. Re-run the three make_ scripts to rebuild the lot.

QUESTIONS OR COMMENTS?

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SUPPORTED BY

