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Systematic processing of Mars Express HRSC image mosaic quadrangles

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Mars Express HRSC image strips show varying brightnesses caused by differing illumination and atmospheric conditions. Lambert correction improves the situation, but not sufficiently for a visually consistent mosaic. In the absence of a systematically applicable correction for atmospheric effects, we demonstrate a technique to provide image equalisation using a brightness reference map, and show the first processed MC-30 quadrangles from a programme to produce a global HRSC image mosaic.