## Supplementary Material: Automated Extraction and Mapping for Desert Wadis from Landsat Imagery in Arid West Asia

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**Figure S1.** (**a**–**d**) WI images of Study Area 2; (**e**–**h**) wadi extraction results of Study Area 2; (**i**–**l**) WI images of Block 3; (**m**–**p**) wadi extraction results of Block 1; (**q**–**t**) WI images of Block 4; (**u**–**x**) wadi extraction results of Block 4.



**Figure S2.** (**a**–**d**) WI images of Study Area 2; (**e**–**h**) wadi extraction results of Study Area 2; (**i**–**l**) WI images of Block 5; (**m**–**p**) wadi extraction results of Block 5; (**q**–**t**) WI images of Block 6; (**u**–**x**) wadi extraction results of Block 6.



**Figure S3.** (a) NWI image of Study Area 2; (b–d) the extraction results of Study Area 2; (e) NWI image of Block 3; (f–h) the extraction results of Block 3; (i) NWI image of Block 4; (j–l) the extraction results of Block 4.



**Figure S4.** (a) NWI image of Study Area 3; (b–d) the extraction results of Study Area 3; (e) NWI image of Block 5; (f–h) the extraction results of Block 5; (i) NWI image of Block 6; (j–l) the extraction results of Block 6.



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