**Supplementary Material**



**Figure S1.** Example of topographic wind speed damage observed in Yabucoa, Puerto Rico after Hurricane Maria

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| Map  Description automatically generated | Diagram  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| A close-up of the earth  Description automatically generated with low confidence | Shape  Description automatically generated |
| (c) DEM in meters | (d) Slope in degrees |
| A picture containing diagram  Description automatically generated | Shape  Description automatically generated |
| (e) Curvature in degrees | (f) Rugosity |
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**Figure S2.** Aibonito region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity

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| Map  Description automatically generated with medium confidence | Diagram  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| Diagram  Description automatically generated | A picture containing diagram  Description automatically generated |
| (c) DEM in meters | (d) Slope in degrees |
| Diagram  Description automatically generated | Diagram  Description automatically generated |
| (e) Curvature in degrees | (f) Rugosity |

**Figure S3.** Culebra region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity

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| Map  Description automatically generated | Diagram, map  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| Diagram  Description automatically generated | A picture containing diagram  Description automatically generated |
| (c) DEM in meters | (d) Slope in degrees |
| Diagram  Description automatically generated | Chart, pie chart  Description automatically generated |
| (e) Curvature in degrees | (f) Rugosity |
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**Figure S4.** Humacao region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity

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| Diagram  Description automatically generated with medium confidence | Diagram  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| Diagram, shape, circle  Description automatically generated with medium confidence | Chart  Description automatically generated with medium confidence |
| (c) DEM in meters | (d) Slope in degrees |
| Diagram  Description automatically generated with medium confidence | A picture containing diagram  Description automatically generated |
| (e) Curvature in degrees | (f) Rugosity |

**Figure S5.** Utuado region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity

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|  | Diagram  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| Diagram  Description automatically generated | Shape  Description automatically generated |
| (c) DEM in meters | (d) Slope in degrees |
| Diagram  Description automatically generated | Shape  Description automatically generated |
| (e) Curvature in degrees | (f) Rugosity |

**Figure S6.** Vieques region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity

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| Diagram  Description automatically generated with medium confidence | Diagram  Description automatically generated |
| (a) Aerial Photo | (b) Urban Areas |
| Diagram  Description automatically generated | A picture containing map  Description automatically generated |
| (c) DEM in meters | (d) Slope in degrees |
| Diagram  Description automatically generated | Chart  Description automatically generated with low confidence |
| (e) Curvature in degrees | (f) Rugosity |

**Figure S7.** Yabucoa region images: (a) aerial photo, (b) urban areas, (c) elevation, (d) slope, (e) curvature, and (f) rugosity