

Table S1. List of PALSAR-2 quadruple data used in this study.

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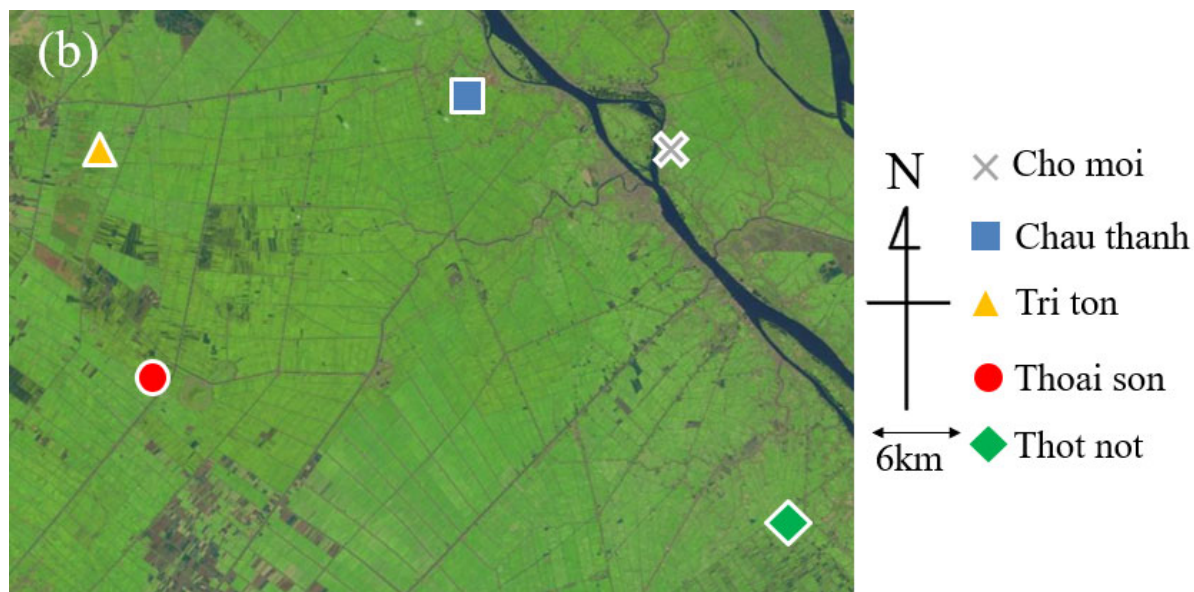
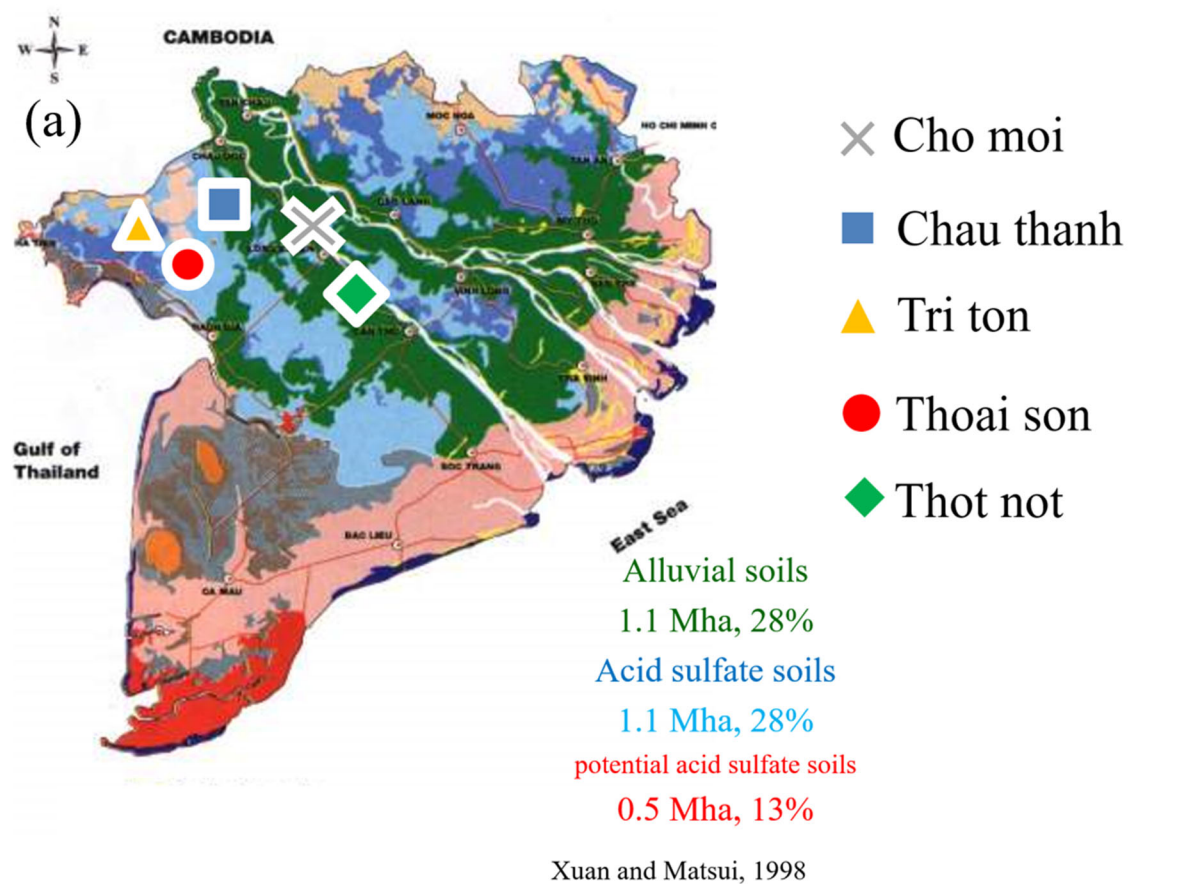


Figure S1. Site location in the Mekong delta (subfigure a) and Sentinel-2's multispectral images surrounding target sites observed on 6 February 2016 (subfigure b).

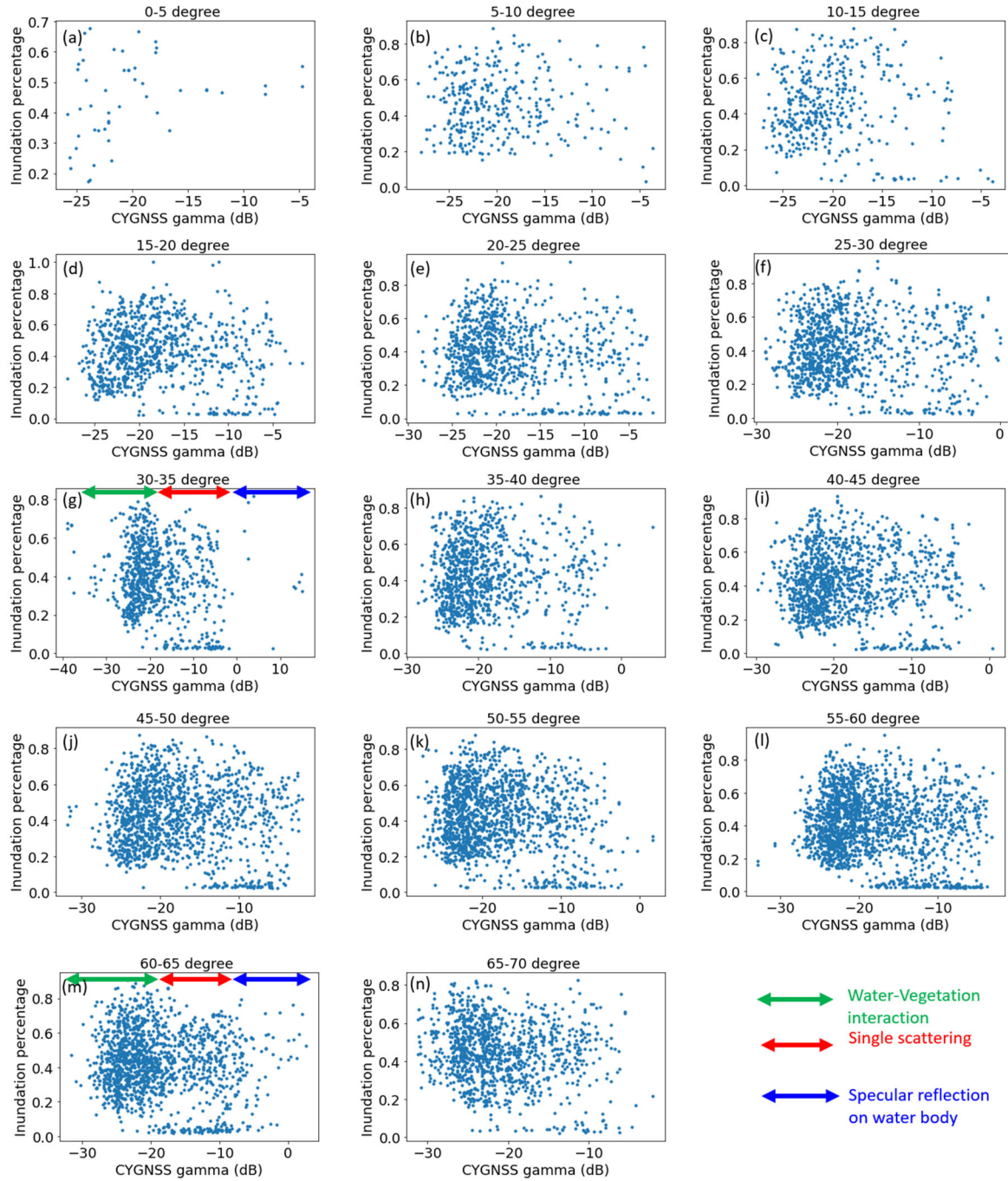


Figure S2. Two-dimensional scatterplots between the CyGNSS reflectivity Γ (dB) and spatial inundation percentage values at different specular point incidence angles. The statistical analysis results of these relationships are described in Tables S2 and S3.

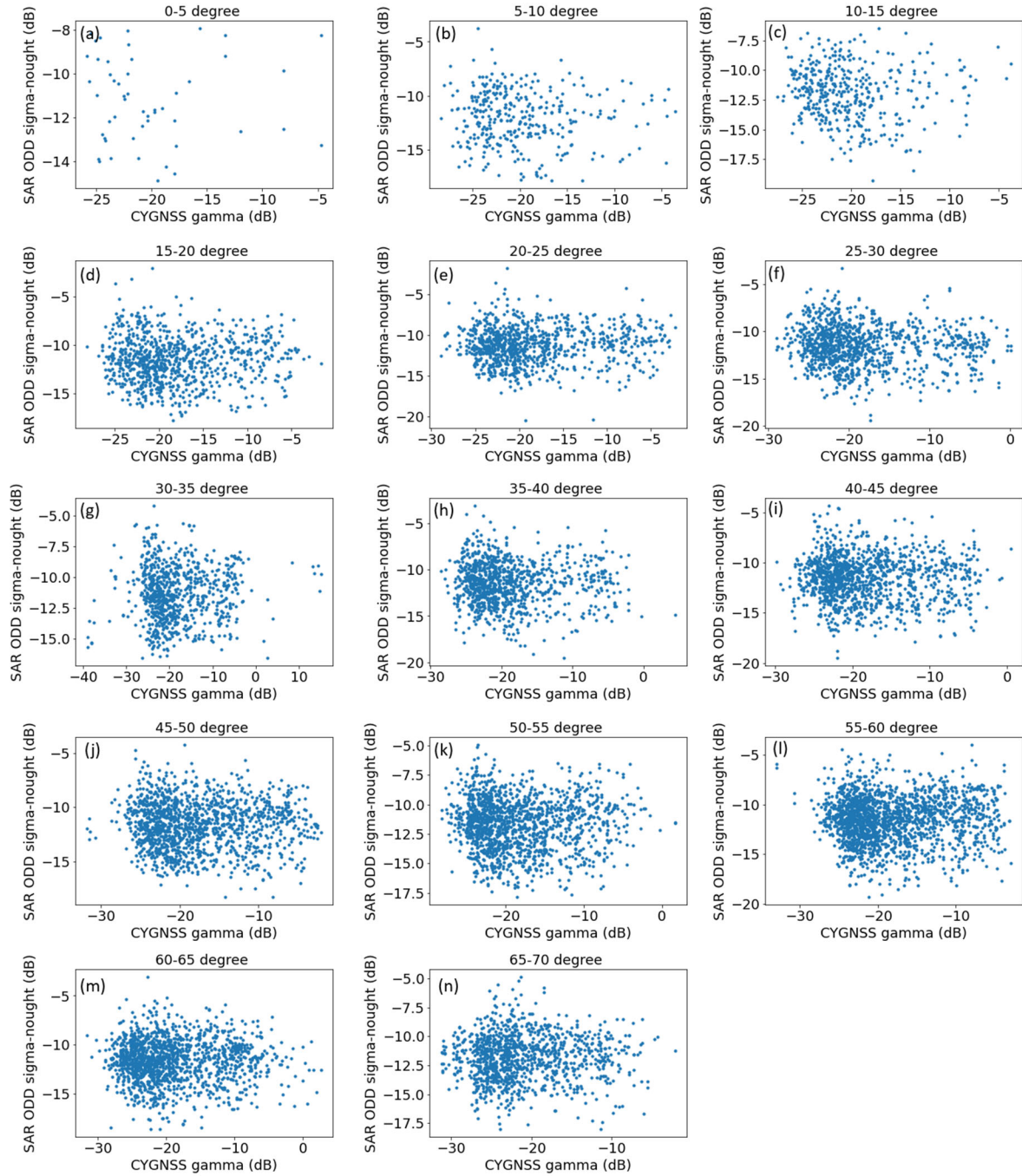


Figure S3. Two-dimensional scatterplots between the CyGNSS reflectivity Γ (dB) and PALSAR-2 odd scattering backscatters σ^0 (dB) at different specular point incidence angles (a: 0-5°, b: 5-10°, c: 10-15°, d: 15-20°, e: 20-25°, f: 25-30°, g: 30-35°, h: 35-40°, i: 40-45°, j: 45-50°, k: 50-55°, l: 55-60°, m: 60-65°, and n: 65-70°). The statistical analysis results representing these relationships are described in Tables S2 and S3.

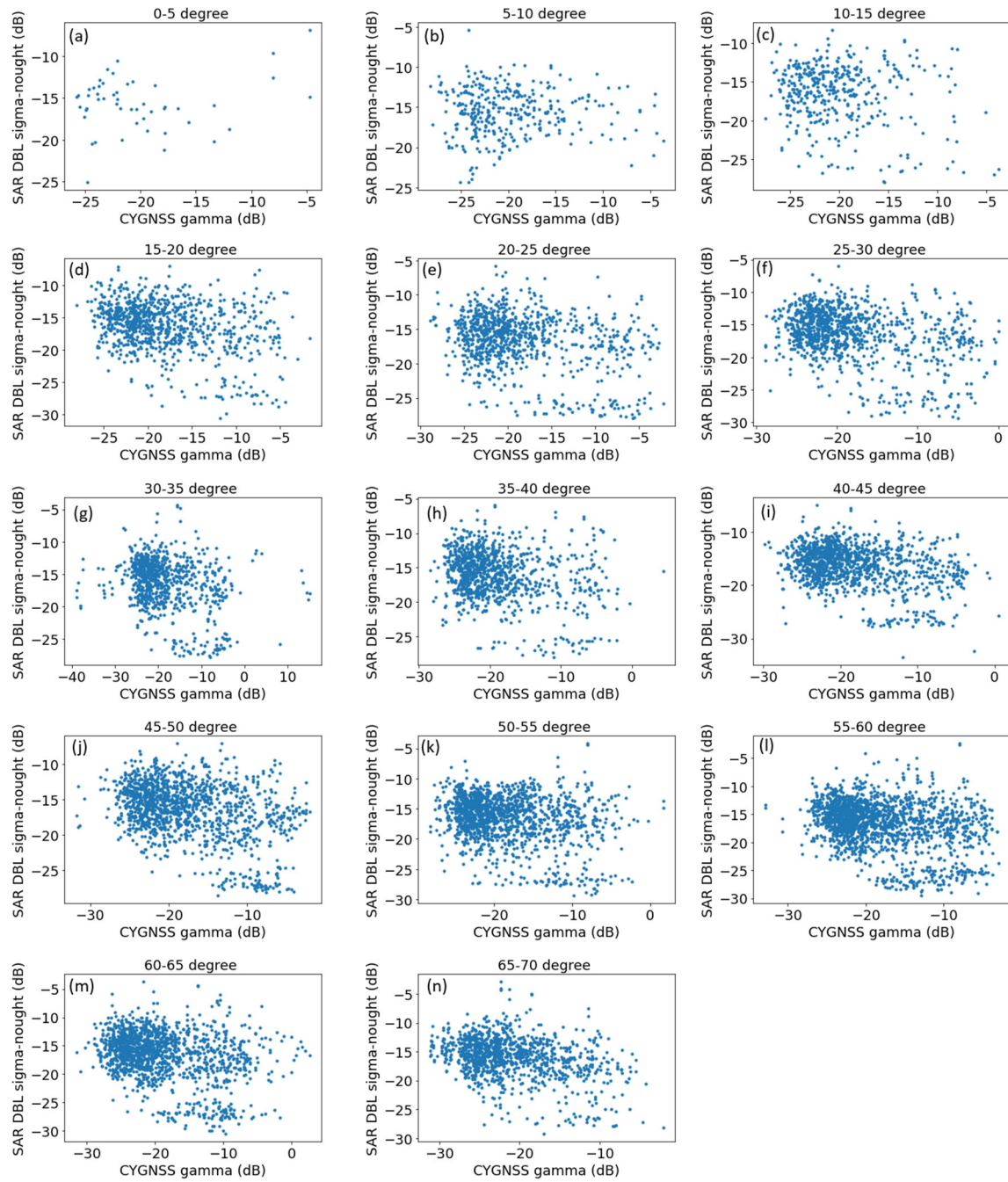


Figure S4. Two-dimensional scatterplots between the CyGNSS reflectivity Γ (dB) and PALSAR-2 double bounce backscatters σ^0 (dB) at different specular point incidence angles (a: 0-5°, b: 5-10°, c: 10-15°, d: 15-20°, e: 20-25°, f: 25-30°, g: 30-35°, h: 35-40°, i: 40-45°, j: 45-50°, k: 50-55°, l: 55-60°, m: 60-65°, and n: 65-70°). The statistical analysis results representing these relationships are described in Tables S2 and S3.

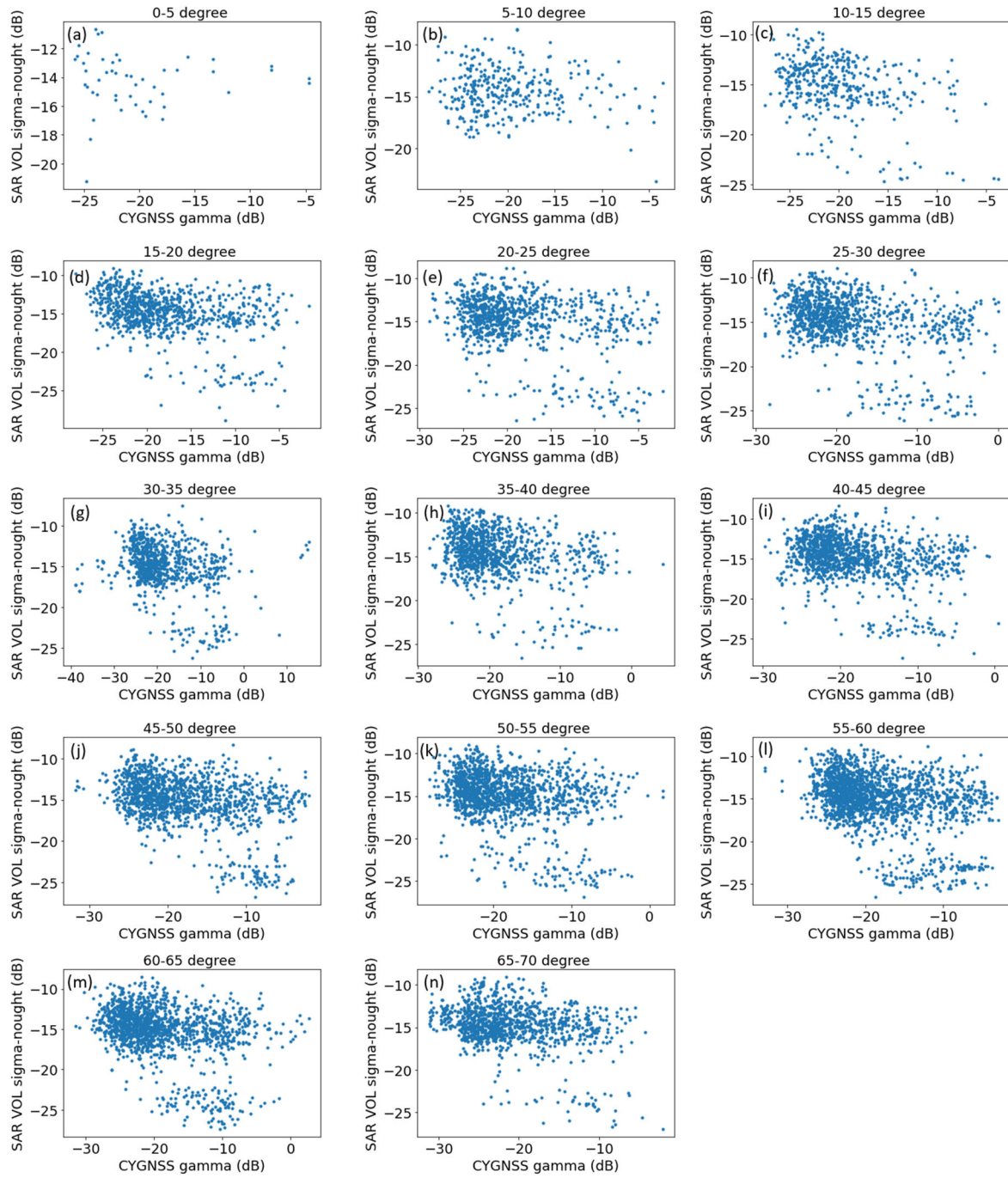


Figure S5. Two-dimensional scatterplots between the CyGNSS reflectivity Γ (dB) and PALSAR-2 volume diffusion backscatters σ^0 (dB) at different specular point incidence angles (a: 0-5°, b: 5-10°, c: 10-15°, d: 15-20°, e: 20-25°, f: 25-30°, g: 30-35°, h: 35-40°, i: 40-45°, j: 45-50°, k: 50-55°, l: 55-60°, m: 60-65°, and n: 65-70°). The statistical analysis results representing these relationships are described in Tables S2 and S3.

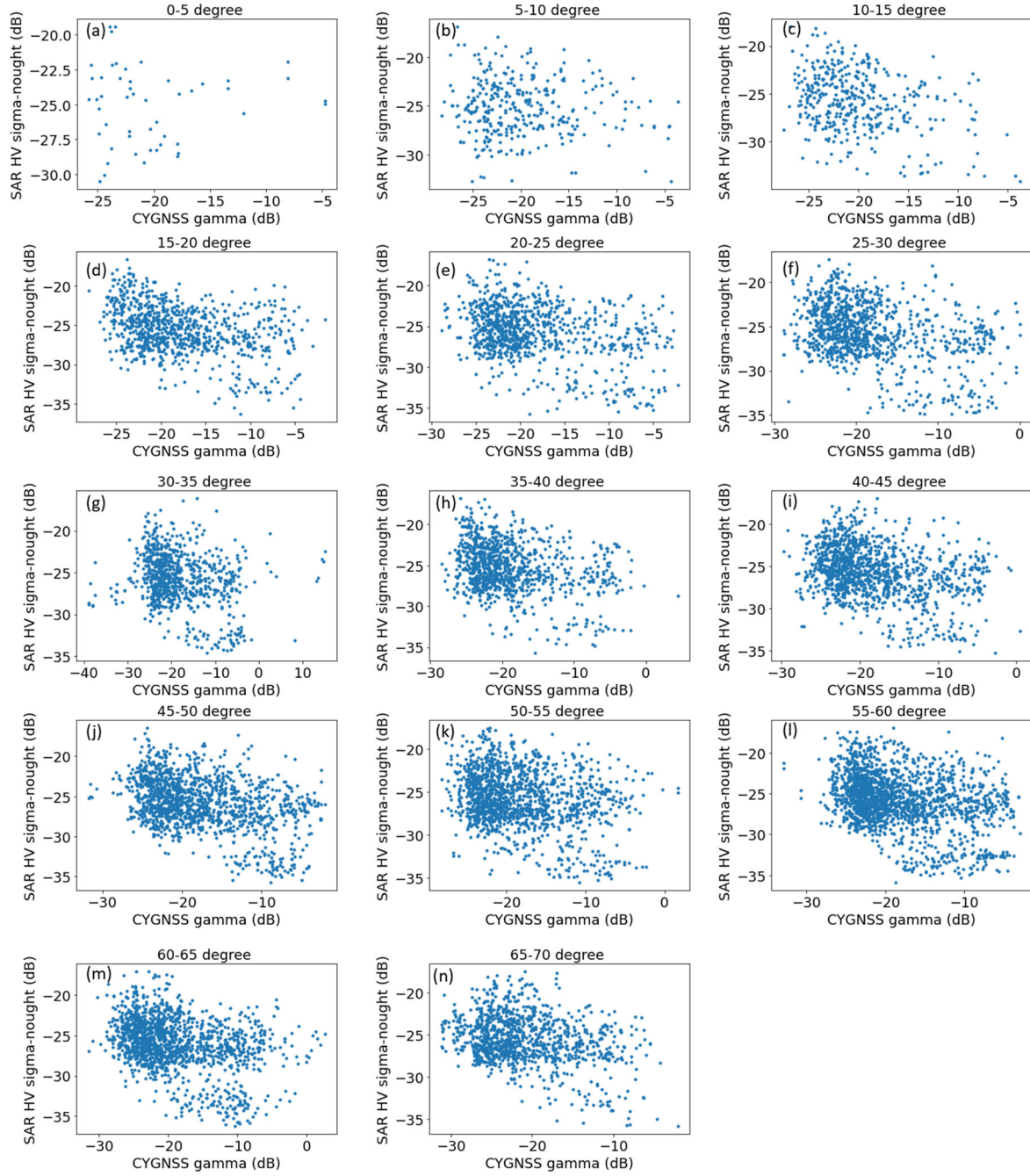


Figure S6. Two-dimensional scatterplots between the CyGNSS reflectivity Γ (dB) and PALSAR-2 backscatters HV σ^0 (dB) at different specular point incidence angles (a: 0-5°, b: 5-10°, c: 10-15°, d: 15-20°, e: 20-25°, f: 25-30°, g: 30-35°, h: 35-40°, i: 40-45°, j: 45-50°, k: 50-55°, l: 55-60°, m: 60-65°, and n: 65-70°). The statistical analysis results representing these relationships are described in Tables S2 and S3.

Table S2. Pearson correlation coefficients between the CyGNSS Γ (dB) and PALSAR-2 backscatter σ^0 (dB) values grouped by specular points' characteristics (5° incidence angle intervals and 6-km squared root effective scattering area intervals). The italicized, underscored red font indicates significantly positive correlations ($p < 0.05$). Bold blue font with grey highlights indicates significantly negative correlations ($p < 0.05$). The correlations marked with *, **, and *** denote significance at the 10 %, 5 %, and 1 % levels, respectively.

| Incidence angle (degree) | Square root of the effective scattering-area (km) | n | Pearson correlation coefficients between Γ (dB) and SAR backscatters σ^0 (dB) | | | | | | |
|--------------------------|---|-----|---|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| | | | Odd | Double | Volume | Inundation (%) | HH | HV | VV |
| 0-5 | 0-6 | 4 | 0.57 | <u>0.97**</u> | <u>0.94*</u> | -0.91* | <u>0.97**</u> | <u>0.94*</u> | <u>0.97**</u> |
| | 6-12 | 8 | <u>0.72**</u> | <u>0.72**</u> | 0.12 | 0.42 | 0.39 | -0.32 | 0.49 |
| | 12-18 | 38 | -0.08 | <u>0.37**</u> | -0.00 | 0.25 | 0.02 | 0.07 | -0.02 |
| 5-10 | 0-6 | 68 | -0.14 | -0.39*** | 0.085 | 0.01 | -0.31** | 0.03 | -0.18 |
| | 6-12 | 60 | 0.13 | 0.25* | <u>0.41***</u> | -0.33** | <u>0.36***</u> | <u>0.40***</u> | <u>0.27**</u> |
| | 12-18 | 207 | -0.12* | 0.07 | -0.22*** | 0.09 | -0.10 | -0.15** | -0.07 |
| 10-15 | 0-6 | 76 | -0.47*** | 0.19* | -0.14 | <u>0.50***</u> | -0.39*** | -0.22* | -0.36*** |
| | 6-12 | 33 | -0.27 | 0.13 | -0.14 | <u>0.46***</u> | -0.22 | -0.05 | -0.37** |
| | 12-18 | 294 | -0.06 | -0.18*** | -0.39*** | -0.04 | -0.09 | -0.35*** | -0.02 |
| 15-20 | 0-6 | 116 | -0.27*** | -0.26*** | -0.31*** | <u>0.33***</u> | -0.35*** | -0.20** | -0.23** |
| | 6-12 | 121 | -0.12 | -0.12 | -0.30*** | <u>0.20**</u> | -0.13 | -0.23** | -0.16* |
| | 12-18 | 629 | 0.00 | -0.25*** | -0.34*** | -0.05 | -0.17*** | -0.36*** | -0.04 |
| 20-25 | 0-6 | 100 | -0.21** | -0.22** | <u>0.20**</u> | 0.14 | -0.21** | <u>0.19**</u> | -0.06 |
| | 6-12 | 135 | -0.34*** | -0.12 | -0.04 | 0.12 | -0.05 | 0.05 | -0.00 |
| | 12-18 | 675 | 0.06 | -0.26*** | -0.33*** | -0.09** | -0.13*** | -0.34*** | 0.03 |
| 25-30 | 0-6 | 65 | -0.55*** | -0.14 | -0.35*** | <u>0.36***</u> | -0.37*** | -0.30** | -0.26** |
| | 6-12 | 211 | -0.19*** | 0.05 | -0.08 | <u>0.20***</u> | -0.06 | -0.03 | -0.08 |
| | 12-18 | 738 | -0.10*** | -0.31*** | -0.36*** | -0.03 | -0.26*** | -0.37*** | -0.11*** |
| | 18-24 | 23 | -0.37* | -0.32 | -0.51** | 0.33 | -0.38* | -0.48** | -0.28 |
| | 0-6 | 60 | 0.17 | <u>0.33***</u> | 0.12 | -0.10 | <u>0.52***</u> | <u>0.38***</u> | <u>0.37***</u> |

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|-------|-------|------|----------|----------|----------|----------|----------|----------|----------|
| 30-35 | 6-12 | 142 | -0.12 | -0.10 | -0.21** | -0.01 | -0.04 | -0.01 | 0.01 |
| | 12-18 | 472 | 0.08* | -0.31*** | -0.28*** | -0.22 | -0.04 | -0.27 | 0.10 |
| | 18-24 | 132 | -0.24*** | -0.16* | -0.12 | 0.18** | -0.17** | -0.09 | -0.15 |
| 35-40 | 0-6 | 30 | -0.11 | -0.51*** | -0.18 | -0.14 | -0.25 | -0.24 | -0.12 |
| | 6-12 | 141 | -0.20** | -0.11 | -0.01 | 0.19** | -0.28*** | -0.09 | -0.26*** |
| | 12-18 | 434 | -0.01 | -0.25*** | -0.31*** | -0.05 | -0.14*** | -0.29*** | -0.03 |
| | 18-24 | 397 | -0.10** | -0.19*** | -0.31*** | 0.08 | -0.21*** | -0.30*** | -0.15*** |
| 40-45 | 0-6 | 80 | -0.02 | -0.17 | -0.11 | 0.08 | -0.13 | -0.19* | -0.09 |
| | 6-12 | 101 | -0.22** | -0.00 | -0.16 | 0.28*** | -0.29*** | -0.15 | -0.26** |
| | 12-18 | 186 | 0.07 | -0.01 | 0.16** | 0.01 | -0.01 | 0.11 | 0.04 |
| | 18-24 | 845 | -0.09*** | -0.31*** | -0.34*** | -0.01 | -0.24*** | -0.34*** | -0.12*** |
| 45-50 | 0-6 | 68 | -0.00 | 0.10 | 0.04 | 0.16 | -0.01 | 0.00 | -0.13 |
| | 6-12 | 38 | -0.46*** | -0.59*** | -0.62*** | 0.42*** | -0.68*** | -0.62*** | -0.62*** |
| | 12-18 | 209 | -0.03 | -0.13* | 0.01 | 0.09 | -0.11 | -0.05 | -0.15** |
| | 18-24 | 900 | -0.04 | -0.36*** | -0.39*** | -0.12*** | -0.21*** | -0.39*** | -0.04 |
| | 24-30 | 137 | -0.11 | -0.27*** | -0.24*** | 0.28*** | -0.29*** | -0.29*** | -0.20** |
| 50-55 | 0-6 | 60 | -0.03 | 0.00 | 0.14 | -0.09 | 0.05 | 0.14 | 0.03 |
| | 6-12 | 10 | -0.64** | -0.30 | -0.05 | -0.42 | -0.01 | 0.21 | 0.28 |
| | 12-18 | 138 | 0.02 | -0.24*** | -0.01 | -0.22** | -0.08 | -0.04 | -0.00 |
| | 18-24 | 596 | -0.03 | -0.37*** | -0.39*** | -0.21*** | -0.11*** | -0.35*** | 0.04 |
| | 24-30 | 639 | -0.05 | -0.03 | -0.19*** | 0.03 | -0.10** | -0.17*** | -0.04 |
| 55-60 | 0-6 | 57 | -0.20 | -0.01 | -0.25* | 0.11 | -0.04 | -0.23* | -0.06 |
| | 6-12 | 6 | -0.06 | -0.73* | -0.45 | -0.77* | -0.63 | -0.44 | -0.04 |
| | 12-18 | 73 | -0.29** | -0.27** | -0.08 | 0.36*** | -0.31*** | -0.15 | -0.33*** |
| | 18-24 | 59 | 0.20 | 0.33* | 0.41*** | -0.15 | 0.20 | 0.33*** | 0.22* |
| | 24-30 | 1291 | 0.06** | -0.30*** | -0.34*** | -0.16*** | -0.10*** | -0.34*** | 0.04 |
| | 30-36 | 318 | -0.22*** | -0.08 | -0.20 | 0.32*** | -0.29*** | -0.22*** | -0.31*** |
| 60-65 | 0-6 | 16 | 0.46* | -0.52** | -0.61** | -0.84*** | 0.47* | -0.57** | 0.71*** |
| | 6-12 | 26 | -0.12 | -0.00 | -0.04 | 0.20 | -0.22 | -0.06 | -0.22 |
| | 18-24 | 65 | -0.21 | -0.34** | -0.19 | 0.20 | -0.43*** | -0.24** | -0.34*** |

| | | | | | | | | | |
|-------|-------|-----|-------|----------|----------|----------------|----------|----------|---------|
| | 24-30 | 324 | 0.00 | -0.39*** | -0.35*** | -0.30*** | -0.07 | -0.33*** | 0.07 |
| | 30-36 | 796 | -0.01 | -0.23*** | -0.33*** | -0.08** | -0.17*** | -0.34*** | -0.04 |
| | 36-42 | 215 | 0.05 | 0.01 | -0.09 | <u>0.18***</u> | -0.13** | -0.15** | -0.10 |
| 65-70 | 0-6 | 17 | 0.05 | -0.02 | 0.01 | 0.05 | -0.51** | -0.35 | -0.41** |
| | 18-24 | 28 | -0.05 | -0.20 | 0.06 | 0.15 | -0.30 | -0.09 | -0.22 |
| | 24-30 | 11 | -0.38 | -0.50 | -0.07 | -0.60** | -0.03 | 0.18 | 0.22 |
| | 36-42 | 370 | 0.06 | -0.42*** | -0.37*** | -0.24*** | -0.20*** | -0.37*** | -0.03 |
| | 30-36 | 474 | 0.03 | -0.29*** | -0.28*** | -0.20*** | -0.08* | -0.24*** | 0.07 |
| | 42-48 | 202 | 0.02 | -0.19*** | -0.09 | -0.05** | -0.13* | -0.14** | -0.02 |

Table S3. Determination coefficients (R^2 values) of quadratic polynomial fittings [$a \times \Gamma^2 + b \times \Gamma + c$] based on the use of CyGNSS Γ (dB) to estimate PALSAR-2 backscatters σ^0 (dB) grouped by specular points' characteristics. The italicised, underscored red font with grey highlighting indicates downwardly convex nonlinear relationships (i.e., $0 < a$). The other plain texts indicate upwardly convex nonlinear relationships (i.e., $0 > a$).

| Incidence angle (degree) | Square root of the effective scattering-area (km) | n | Determination coefficients (R^2) of quadratic polynomial fittings [$a \times \Gamma^2 + b \times \Gamma + c$] | | | | | | |
|--------------------------|---|-----|---|-------------|-------------|----------------|-------------|-------------|-------------|
| | | | Odd | Double | Volume | Inundation (%) | HH | HV | VV |
| 0-5 | 0-6 | 4 | <u>0.65</u> | 0.96 | 0.99 | <u>1.00</u> | 0.98 | 0.98 | 0.99 |
| | 6-12 | 8 | <u>0.70</u> | 0.68 | <u>0.33</u> | 0.35 | <u>0.16</u> | <u>0.21</u> | <u>0.50</u> |
| | 12-18 | 38 | <u>0.07</u> | <u>0.29</u> | <u>0.04</u> | 0.12 | <u>0.14</u> | <u>0.09</u> | <u>0.08</u> |
| 5-10 | 0-6 | 68 | 0.09 | <u>0.18</u> | 0.03 | <u>0.05</u> | 0.09 | <u>0.00</u> | 0.05 |
| | 6-12 | 60 | 0.08 | 0.11 | 0.19 | <u>0.11</u> | 0.16 | 0.16 | 0.10 |
| | 12-18 | 207 | <u>0.03</u> | 0.02 | 0.05 | 0.04 | <u>0.02</u> | 0.02 | <u>0.01</u> |
| 10-15 | 0-6 | 76 | <u>0.23</u> | 0.04 | 0.02 | <u>0.26</u> | 0.20 | 0.11 | 0.18 |
| | 6-12 | 33 | 0.10 | <u>0.07</u> | 0.03 | 0.29 | <u>0.09</u> | 0.01 | <u>0.22</u> |
| | 12-18 | 294 | <u>0.03</u> | 0.04 | 0.15 | 0.04 | <u>0.02</u> | 0.12 | <u>0.02</u> |

| | | | | | | | | | |
|-------|-------|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 15-20 | 0-6 | 116 | <u>0.08</u> | 0.08 | 0.10 | <u>0.11</u> | 0.13 | 0.05 | 0.07 |
| | 6-12 | 121 | 0.01 | <u>0.04</u> | <u>0.09</u> | 0.04 | <u>0.04</u> | <u>0.06</u> | <u>0.03</u> |
| | 12-18 | 629 | <u>0.01</u> | 0.06 | <u>0.12</u> | 0.04 | <u>0.06</u> | <u>0.15</u> | <u>0.04</u> |
| 20-25 | 0-6 | 100 | <u>0.05</u> | <u>0.05</u> | <u>0.05</u> | <u>0.02</u> | <u>0.07</u> | <u>0.05</u> | <u>0.01</u> |
| | 6-12 | 135 | <u>0.12</u> | 0.02 | <u>0.01</u> | 0.04 | <u>0.01</u> | <u>0.02</u> | <u>0.01</u> |
| | 12-18 | 675 | <u>0.00</u> | 0.07 | 0.11 | 0.02 | <u>0.02</u> | <u>0.12</u> | <u>0.00</u> |
| 25-30 | 0-6 | 65 | <u>0.33</u> | <u>0.03</u> | <u>0.16</u> | 0.14 | <u>0.15</u> | <u>0.14</u> | <u>0.07</u> |
| | 6-12 | 211 | 0.04 | 0.04 | 0.02 | 0.04 | 0.02 | 0.01 | 0.03 |
| | 12-18 | 738 | <u>0.01</u> | <u>0.10</u> | <u>0.13</u> | <u>0.00</u> | <u>0.07</u> | <u>0.14</u> | 0.01 |
| | 18-24 | 23 | <u>0.14</u> | <u>0.11</u> | 0.27 | <u>0.12</u> | <u>0.15</u> | 0.24 | <u>0.08</u> |
| 30-35 | 0-6 | 60 | 0.27 | <u>0.12</u> | 0.17 | <u>0.23</u> | 0.28 | 0.16 | 0.24 |
| | 6-12 | 142 | <u>0.05</u> | 0.13 | 0.12 | 0.06 | 0.00 | 0.07 | <u>0.01</u> |
| | 12-18 | 472 | <u>0.02</u> | <u>0.10</u> | <u>0.09</u> | 0.05 | <u>0.01</u> | <u>0.08</u> | <u>0.01</u> |
| | 18-24 | 132 | <u>0.11</u> | <u>0.15</u> | <u>0.06</u> | 0.03 | <u>0.08</u> | <u>0.04</u> | <u>0.05</u> |
| 35-40 | 0-6 | 30 | 0.13 | <u>0.29</u> | 0.07 | <u>0.06</u> | 0.08 | 0.07 | 0.06 |
| | 6-12 | 141 | <u>0.04</u> | 0.01 | 0.00 | <u>0.04</u> | <u>0.08</u> | 0.01 | <u>0.07</u> |
| | 12-18 | 434 | <u>0.00</u> | <u>0.07</u> | 0.10 | 0.00 | <u>0.04</u> | <u>0.09</u> | <u>0.01</u> |
| | 18-24 | 397 | <u>0.02</u> | 0.04 | <u>0.10</u> | 0.03 | <u>0.05</u> | <u>0.09</u> | <u>0.03</u> |
| 40-45 | 0-6 | 80 | <u>0.00</u> | <u>0.05</u> | 0.01 | 0.01 | <u>0.02</u> | 0.04 | <u>0.01</u> |
| | 6-12 | 101 | 0.06 | 0.04 | 0.13 | <u>0.08</u> | 0.09 | 0.05 | 0.07 |
| | 12-18 | 186 | 0.02 | 0.00 | 0.04 | <u>0.01</u> | 0.00 | 0.02 | 0.01 |
| | 18-24 | 845 | <u>0.01</u> | 0.10 | <u>0.12</u> | 0.01 | <u>0.06</u> | <u>0.13</u> | <u>0.02</u> |
| 45-50 | 0-6 | 68 | 0.02 | <u>0.01</u> | 0.02 | <u>0.03</u> | 0.00 | 0.00 | 0.02 |
| | 6-12 | 38 | <u>0.22</u> | 0.36 | 0.39 | 0.17 | 0.46 | 0.41 | 0.39 |
| | 12-18 | 209 | <u>0.01</u> | 0.04 | <u>0.00</u> | 0.02 | <u>0.01</u> | 0.00 | <u>0.02</u> |
| | 18-24 | 900 | <u>0.01</u> | 0.13 | <u>0.15</u> | 0.02 | <u>0.05</u> | <u>0.15</u> | <u>0.01</u> |
| | 24-30 | 137 | 0.02 | 0.08 | 0.07 | <u>0.09</u> | 0.08 | 0.09 | 0.04 |
| | 0-6 | 60 | 0.00 | 0.04 | 0.08 | 0.11 | 0.00 | 0.06 | <u>0.01</u> |
| | 6-12 | 10 | <u>0.41</u> | <u>0.15</u> | 0.03 | <u>0.23</u> | <u>0.00</u> | 0.05 | <u>0.08</u> |

| | | | | | | | | | |
|-------|-------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 50-55 | 12-18 | 138 | <u>0.06</u> | <u>0.10</u> | <u>0.04</u> | 0.05 | <u>0.06</u> | <u>0.05</u> | <u>0.04</u> |
| | 18-24 | 596 | <u>0.04</u> | 0.15 | 0.16 | 0.07 | <u>0.02</u> | 0.13 | <u>0.02</u> |
| | 24-30 | 639 | <u>0.03</u> | <u>0.00</u> | <u>0.05</u> | 0.03 | <u>0.03</u> | <u>0.03</u> | <u>0.02</u> |
| 55-60 | 0-6 | 57 | <u>0.05</u> | <u>0.08</u> | <u>0.07</u> | 0.02 | <u>0.08</u> | <u>0.06</u> | <u>0.04</u> |
| | 6-12 | 6 | <u>0.04</u> | <u>0.70</u> | <u>0.33</u> | 0.61 | <u>0.80</u> | <u>0.31</u> | <u>0.72</u> |
| | 12-18 | 73 | <u>0.19</u> | 0.08 | <u>0.01</u> | 0.19 | <u>0.11</u> | <u>0.02</u> | <u>0.16</u> |
| | 18-24 | 59 | <u>0.05</u> | 0.16 | <u>0.17</u> | 0.02 | 0.08 | 0.13 | 0.06 |
| | 24-30 | 1291 | <u>0.01</u> | <u>0.09</u> | <u>0.12</u> | 0.03 | <u>0.01</u> | <u>0.12</u> | <u>0.00</u> |
| | 30-36 | 318 | <u>0.07</u> | <u>0.01</u> | <u>0.05</u> | 0.11 | <u>0.09</u> | <u>0.05</u> | <u>0.10</u> |
| 60-65 | 0-6 | 16 | 0.33 | 0.36 | 0.52 | <u>0.72</u> | 0.50 | 0.46 | 0.59 |
| | 6-12 | 26 | 0.11 | <u>0.01</u> | 0.01 | <u>0.20</u> | 0.12 | 0.02 | 0.17 |
| | 18-24 | 65 | 0.10 | 0.13 | 0.14 | <u>0.08</u> | 0.24 | 0.12 | 0.17 |
| | 24-30 | 324 | <u>0.01</u> | <u>0.15</u> | <u>0.13</u> | 0.09 | <u>0.01</u> | <u>0.12</u> | <u>0.01</u> |
| | 30-36 | 796 | <u>0.00</u> | <u>0.05</u> | <u>0.11</u> | 0.01 | <u>0.03</u> | <u>0.12</u> | <u>0.00</u> |
| | 36-42 | 215 | 0.04 | 0.01 | <u>0.01</u> | <u>0.04</u> | 0.03 | <u>0.02</u> | 0.04 |
| 65-70 | 0-6 | 17 | 0.15 | <u>0.01</u> | <u>0.02</u> | <u>0.08</u> | <u>0.33</u> | <u>0.12</u> | 0.26 |
| | 18-24 | 28 | 0.01 | 0.09 | 0.02 | 0.04 | 0.09 | 0.02 | <u>0.05</u> |
| | 24-30 | 11 | 0.24 | 0.27 | 0.04 | 0.37 | 0.00 | 0.07 | 0.06 |
| | 36-42 | 370 | 0.01 | 0.18 | 0.14 | <u>0.06</u> | <u>0.04</u> | 0.14 | <u>0.00</u> |
| | 30-36 | 474 | 0.00 | 0.10 | 0.09 | <u>0.04</u> | 0.01 | 0.08 | 0.01 |
| | 42-48 | 202 | 0.01 | 0.04 | 0.02 | <u>0.03</u> | 0.03 | 0.05 | 0.02 |