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LAMPIRAN

Lampiran 1. Pasang Surut Air Laut Di Sungai Tallo Selama 39 Jam

| Pasang Surut | | | | | |
|--------------|----|-----|------------|-------------|-------|
| Tanggal | No | Jam | Batas Atas | Batas Bawah | H |
| 3/19/2022 | 1 | 11 | 201 | 196 | 198.5 |
| | 2 | 12 | 189 | 183 | 186 |
| | 3 | 13 | 182 | 176 | 179 |
| | 4 | 14 | 179 | 173 | 176 |
| | 5 | 15 | 173 | 169 | 171 |
| | 6 | 16 | 167 | 161 | 164 |
| | 7 | 17 | 154 | 151 | 152.5 |
| | 8 | 18 | 151 | 146 | 148.5 |
| | 9 | 19 | 145 | 138 | 141.5 |
| | 10 | 20 | 135 | 129 | 132 |
| | 11 | 21 | 130 | 126 | 128 |
| | 12 | 22 | 133 | 129 | 131 |
| | 13 | 23 | 142 | 139 | 140.5 |
| 3/20/2022 | 14 | 24 | 155 | 146 | 150.5 |
| | 15 | 1 | 166 | 164 | 165 |
| | 16 | 2 | 182 | 177 | 179.5 |
| | 17 | 3 | 194 | 189 | 191.5 |
| | 18 | 4 | 205 | 199 | 202 |
| | 19 | 5 | 218 | 215 | 216.5 |
| | 20 | 6 | 232 | 227 | 229.5 |
| | 21 | 7 | 238 | 234 | 236 |
| | 22 | 8 | 235 | 230 | 232.5 |
| | 23 | 9 | 224 | 220 | 222 |
| | 24 | 10 | 215 | 210 | 212.5 |
| | 25 | 11 | 210 | 204 | 207 |
| | 26 | 12 | 201 | 198 | 199.5 |
| | 27 | 13 | 192 | 188 | 190 |
| | 28 | 14 | 185 | 180 | 182.5 |
| | 29 | 15 | 179 | 173 | 176 |
| | 30 | 16 | 170 | 167 | 168.5 |
| | 31 | 17 | 163 | 159 | 161 |
| | 32 | 18 | 154 | 151 | 152.5 |
| | 33 | 19 | 145 | 141 | 143 |
| | 34 | 20 | 134 | 130 | 132 |
| | 35 | 21 | 125 | 122 | 123.5 |
| | 36 | 22 | 123 | 119 | 121 |
| | 37 | 23 | 127 | 123 | 125 |
| 3/21/2022 | 38 | 24 | 138 | 134 | 136 |
| | 39 | 1 | 149 | 145 | 147 |
| | 40 | 2 | 164 | 160 | 162 |

Lampiran 2. Tinggi Gelombang Di Sungai Tallo Sebanyak 51 Jali

| Tinggi Gelombang | | | | | | | | | | | | | | | |
|------------------|-----------------------------|--------|--------|--------|--------|--------|--------------------------|---|---|--------------------------|------|------|------------------------|-------|---------|
| No | 1 | | 2 | | 3 | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | Puncak | Lembah | Puncak | Lembah | Puncak | Lembah | Tinggi Gelombang | | | Tinggi Gelombang Berurut | | | tinggi signifikan H1/3 | | |
| 1 | 38 | 34 | 55 | 51 | 36 | 34 | 4 | 4 | 2 | 9 | 2 | 4 | 9 | 2 | 4 |
| 2 | 37 | 35 | 54 | 52 | 36 | 32 | 2 | 2 | 4 | 8 | 2 | 4 | 8 | 2 | 4 |
| 3 | 37 | 33 | 54 | 51 | 36 | 34 | 4 | 3 | 2 | 8 | 5 | 6 | 8 | 5 | 6 |
| 4 | 37 | 34 | 56 | 53 | 38 | 34 | 3 | 3 | 4 | 8 | 1 | 3 | 8 | 1 | 3 |
| 5 | 37 | 36 | 56 | 54 | 36 | 33 | 1 | 2 | 3 | 7 | 5 | 5 | 7 | 5 | 5 |
| 6 | 36 | 32 | 57 | 51 | 38 | 31 | 4 | 6 | 7 | 7 | 2 | 4 | 7 | 2 | 4 |
| 7 | 38 | 34 | 56 | 49 | 38 | 34 | 4 | 7 | 4 | 7 | 5 | 3 | 7 | 5 | 3 |
| 8 | 40 | 34 | 57 | 54 | 37 | 33 | 6 | 3 | 4 | 6 | 3 | 4 | 6 | 3 | 4 |
| 9 | 41 | 35 | 56 | 53 | 35 | 33 | 6 | 3 | 2 | 6 | 3 | 2 | 6 | 3 | 2 |
| 10 | 41 | 35 | 59 | 55 | 37 | 33 | 6 | 4 | 4 | 6 | 4 | 4 | 6 | 4 | 4 |
| 11 | 41 | 33 | 54 | 52 | 38 | 34 | 8 | 2 | 4 | 6 | 4 | 4 | 6 | 4 | 4 |
| 12 | 41 | 35 | 57 | 53 | 39 | 35 | 6 | 4 | 4 | 6 | 2 | 2 | 6 | 2 | 2 |
| 13 | 40 | 36 | 55 | 51 | 39 | 37 | 4 | 4 | 2 | 6 | 6 | 5 | 6 | 6 | 5 |
| 14 | 40 | 35 | 57 | 54 | 41 | 36 | 5 | 3 | 5 | 6 | 3 | 3 | 6 | 3 | 3 |
| 15 | 41 | 36 | 56 | 51 | 38 | 35 | 5 | 5 | 3 | 6 | 5 | 8 | 6 | 5 | 8 |
| 16 | 41 | 37 | 57 | 52 | 39 | 36 | 4 | 5 | 3 | 6 | 5 | 3 | 6 | 5 | 3 |
| 17 | 41 | 36 | 57 | 53 | 40 | 34 | 5 | 4 | 6 | 5 | 3 | 5 | 5 | 3 | 5 |
| 18 | 41 | 37 | 58 | 53 | 40 | 37 | 4 | 5 | 3 | 5 | 5 | 3 | | | |
| 19 | 40 | 38 | 57 | 53 | 38 | 36 | 2 | 4 | 2 | 5 | 4 | 6 | | | |
| 20 | 40 | 36 | 57 | 54 | 40 | 35 | 4 | 3 | 5 | 5 | 3 | 3 | | | |
| 21 | 41 | 36 | 55 | 52 | 39 | 36 | 5 | 3 | 3 | 5 | 3 | 5 | | | |
| 22 | 41 | 36 | 56 | 53 | 39 | 34 | 5 | 3 | 5 | 5 | 5 | 6 | | | |
| 23 | 39 | 36 | 57 | 54 | 38 | 36 | 3 | 3 | 2 | 5 | 3 | 4 | | | |
| 24 | 41 | 36 | 57 | 52 | 38 | 32 | 5 | 5 | 6 | 5 | 3 | 4 | | | |
| 25 | 40 | 35 | 56 | 53 | 39 | 35 | 5 | 3 | 4 | 5 | 1 | 4 | | | |
| 26 | 41 | 38 | 59 | 54 | 39 | 37 | 3 | 5 | 2 | 5 | 7 | 4 | | | |
| 27 | 41 | 38 | 57 | 53 | 39 | 38 | 3 | 4 | 1 | 5 | 4 | 4 | | | |
| 28 | 39 | 37 | 55 | 54 | 40 | 36 | 2 | 1 | 4 | 5 | 3 | 4 | | | |
| 29 | 41 | 36 | 56 | 53 | 36 | 32 | 5 | 3 | 4 | 4 | 4 | 2 | | | |
| 30 | 40 | 34 | 56 | 54 | 37 | 35 | 6 | 2 | 2 | 4 | 3 | 2 | | | |
| 31 | 41 | 37 | 56 | 54 | 38 | 36 | 4 | 2 | 2 | 4 | 6 | 7 | | | |
| 32 | 40 | 37 | 55 | 52 | 40 | 36 | 3 | 3 | 4 | 4 | 7 | 4 | | | |
| 33 | 42 | 36 | 59 | 53 | 40 | 35 | 6 | 6 | 5 | 4 | 4 | 2 | | | |
| 34 | 42 | 34 | 57 | 52 | 38 | 32 | 8 | 5 | 6 | 4 | 5 | 3 | | | |
| 35 | 42 | 36 | 56 | 53 | 39 | 36 | 6 | 3 | 3 | 4 | 5 | 3 | | | |
| 36 | 45 | 37 | 55 | 54 | 40 | 37 | 8 | 1 | 3 | 4 | 3 | 5 | | | |
| 37 | 46 | 37 | 56 | 54 | 41 | 37 | 9 | 2 | 4 | 4 | 2 | 2 | | | |
| 38 | 40 | 37 | 55 | 53 | 40 | 38 | 3 | 2 | 2 | 3 | 3 | 4 | | | |
| 39 | 41 | 36 | 56 | 55 | 41 | 37 | 5 | 1 | 4 | 3 | 3 | 2 | | | |
| 40 | 39 | 36 | 57 | 54 | 41 | 36 | 3 | 3 | 5 | 3 | 5 | 2 | | | |
| 41 | 42 | 35 | 58 | 53 | 38 | 33 | 7 | 5 | 5 | 3 | 4 | 1 | | | |
| 42 | 40 | 37 | 56 | 51 | 36 | 35 | 3 | 5 | 1 | 3 | 3 | 4 | | | |
| 43 | 40 | 35 | 58 | 51 | 39 | 35 | 5 | 7 | 4 | 3 | 2 | 2 | | | |
| 44 | 45 | 38 | 54 | 52 | 40 | 36 | 7 | 2 | 4 | 3 | 3 | 5 | | | |
| 45 | 42 | 37 | 57 | 53 | 39 | 35 | 5 | 4 | 4 | 3 | 5 | 1 | | | |
| 46 | 43 | 36 | 58 | 53 | 40 | 37 | 7 | 5 | 3 | 3 | 5 | 5 | | | |
| 47 | 42 | 36 | 56 | 51 | 40 | 32 | 6 | 5 | 8 | 2 | 2 | 4 | | | |
| 48 | 40 | 38 | 56 | 51 | 39 | 35 | 2 | 5 | 4 | 2 | 4 | 2 | | | |
| 49 | 43 | 38 | 55 | 52 | 41 | 37 | 5 | 3 | 4 | 2 | 1 | 4 | | | |
| 50 | 41 | 35 | 58 | 53 | 40 | 37 | 6 | 5 | 3 | 2 | 5 | 4 | | | |
| 51 | 40 | 37 | 58 | 53 | 41 | 36 | 3 | 5 | 5 | 1 | 2 | 3 | | | |
| aktu | 305 | | 261 | | 287 | | Total | | | 240 | 187 | 189 | 113 | 60 | 69 |
| | Tinggi Rata-rata (total/51) | | | | | | | | | | | | 4.706 | 3.667 | 3.70588 |
| Perio | 5.98 | | 5.12 | | 5.63 | | Tinggi Signifikan (H1/3) | | | 2.22 | 1.18 | 1.35 | | | |

Lampiran 3. Kecepatan Arus Di Sungai Tallo

| Kecepatan Arus (m/s) | | | | |
|--------------------------------|---|-------|------|------|
| Stasiun | | 1 (s) | (s) | (s) |
| Ulangan | 1 | 40 | 91 | 63 |
| | 2 | 36 | 70 | 70 |
| | 3 | 39 | 79 | 60 |
| Kecepatan Arus (m/s) | | 0.25 | 0.11 | 0.16 |
| | | 0.28 | 0.14 | 0.14 |
| | | 0.26 | 0.13 | 0.17 |
| Rata-rata Kecepatan Arus (m/s) | | 0.26 | 0.13 | 0.16 |

Lampiran 4. Parameter Fisik Lingkungan Di Sungai Tallo

| Salinitas (ppt) | | | | |
|----------------------------------|---|--------|-----------|-----------|
| Stasiun | | 1 | 2 | 3 |
| Pengulangan | 1 | 31 | 33 | 33 |
| | 2 | 30 | 33 | 34 |
| | 3 | 31 | 33 | 33 |
| Rata-rata | | 30.67 | 33.00 | 33.33 |
| Tinggi Gelombang (cm) | | | | |
| Stasiun | | 1 | 2 | 3 |
| Total | | 240 | 187 | 189 |
| Tinggi Rata-rata (total/51) | | 4.71 | 3.67 | 3.71 |
| Total Tinggi Signifika (H1/3) | | 113 | 60 | 69 |
| Tinggi Signifikan (H1/3) | | 2.22 | 1.18 | 1.35 |
| Periode Gelombang (s) | | 5.98 | 5.12 | 5.63 |
| Kecepatan Arus (m/s) | | | | |
| Stasiun | | 1 (TL) | 2 (Barat) | 3 (Timur) |
| Pengulangan | 1 | 0.25 | 0.11 | 0.16 |
| | 2 | 0.28 | 0.14 | 0.14 |
| | 3 | 0.26 | 0.13 | 0.17 |
| Rata-rata | | 0.26 | 0.13 | 0.16 |
| Pasang Surut (cm) (diurnal tide) | | | | |
| MAX | | 236 | | |
| MIN | | 121 | | |
| MSL | | 170 | | |

Lampiran 5. Hasil Identifikasi Kerapatan dan Komposisi Jenis Mangrove Di Muara Sungai Tallo

| Jenis | Jumlah tegakan | | | Kerapatan (ind/ha) | | |
|---------------------|----------------|----|----|--------------------|------|------|
| | 1 | 2 | 3 | 1 | 2 | 3 |
| Stasiun 1 | | | | | | |
| <i>R. mucronata</i> | 23 | 26 | 18 | 2300 | 2600 | 1800 |
| <i>A. alba</i> | 2 | 3 | 5 | 200 | 300 | 500 |
| total | 25 | 29 | 23 | 2500 | 2900 | 2300 |
| Stasiun 2 | | | | | | |
| <i>A. marina</i> | 10 | 8 | 6 | 1000 | 800 | 600 |
| <i>R. mucronata</i> | 4 | 0 | 7 | 400 | 0 | 700 |
| <i>A. alba</i> | 0 | 5 | 0 | 0 | 500 | 0 |
| total | 14 | 13 | 13 | 1400 | 1300 | 1300 |
| Stasiun 3 | | | | | | |
| <i>R. mucronata</i> | 7 | 5 | 5 | 700 | 500 | 500 |
| <i>S. alba</i> | 3 | 3 | 2 | 300 | 300 | 200 |
| total | 10 | 8 | 7 | 1000 | 800 | 700 |

| NO | JENIS | Komposisi Jenis |
|----|---------------------|-----------------|
| 1 | <i>R. mucronata</i> | 87% |
| | <i>A. alba</i> | 13% |
| | <i>A. marina</i> | 0 |
| | <i>S. alba</i> | 0 |
| 2 | <i>R. mucronata</i> | 28% |
| | <i>A. alba</i> | 12% |
| | <i>A. marina</i> | 60% |
| | <i>S. alba</i> | 0 |
| 3 | <i>R. mucronata</i> | 68% |
| | <i>A. alba</i> | 0 |
| | <i>A. marina</i> | 0 |
| | <i>S. alba</i> | 32% |

Lampiran 6. Hasil Identifikasi Tutupan Basal Mangrove Di Muara Sungai Tallo

| STASIUN (KATEGORI) | JENIS | PLOT | NOMOR | LINGKAR BATANG | r | Basal Area | Σ BA (cm ²) | Ci (m ²) |
|--------------------|---------------------|------|-------|----------------|---------|------------|-------------------------|----------------------|
| 1 (PADAT) | <i>R. mucronata</i> | 1 | 1 | 76 | 12.1019 | 459.8726 | 3763.3758 | 37.63375796 |
| | | | 2 | 50 | 7.9618 | 199.0446 | | |
| | | | 3 | 75 | 11.9427 | 447.8503 | | |
| | | | 4 | 50 | 7.9618 | 199.0446 | | |
| | | | 5 | 32 | 5.0955 | 81.5287 | | |
| | | | 6 | 18 | 2.8662 | 25.7962 | | |
| | | | 7 | 19 | 3.0255 | 28.7420 | | |
| | | | 8 | 53 | 8.4395 | 223.6465 | | |
| | | | 9 | 38 | 6.0510 | 114.9682 | | |
| | | | 10 | 34 | 5.4140 | 92.0382 | | |
| | | | 11 | 66 | 10.5096 | 346.8153 | | |
| | | | 12 | 49 | 7.8025 | 191.1624 | | |
| | | | 13 | 53 | 8.4395 | 223.6465 | | |
| | | | 14 | 22 | 3.5032 | 38.5350 | | |
| | | | 15 | 41 | 6.5287 | 133.8376 | | |
| | | | 16 | 23 | 3.6624 | 42.1178 | | |
| | | | 17 | 52 | 8.2803 | 215.2866 | | |
| | | | 18 | 38 | 6.0510 | 114.9682 | | |
| | | | 19 | 40 | 6.3694 | 127.3885 | | |
| | | | 20 | 46 | 7.3248 | 168.4713 | | |
| | | | 21 | 30 | 4.7771 | 71.6561 | | |
| | | | 22 | 31 | 4.9363 | 76.5127 | | |
| | | | 23 | 42 | 6.6879 | 140.4459 | | |

| | | | | | | | | | | | | |
|---------------------|---------------------|----------------|----|--------|---------|----------|-----------|-------------|-------------|---------|----------|------------|
| | <i>A. alba</i> | | 24 | 28 | 4.4586 | 62.4204 | 143.9490 | 1.439490446 | | | | |
| | | | 25 | 32 | 5.0955 | 81.5287 | | | | | | |
| | <i>R. mucronata</i> | 2 | | 1 | 42 | 6.6879 | 140.4459 | 3221.7357 | 32.21735669 | | | |
| | | | | 2 | 39 | 6.2102 | 121.0987 | | | | | |
| | | | | 3 | 36 | 5.7325 | 103.1847 | | | | | |
| | | | | 4 | 27 | 4.2994 | 58.0414 | | | | | |
| | | | | 5 | 70 | 11.1465 | 390.1274 | | | | | |
| | | | | 6 | 21 | 3.3439 | 35.1115 | | | | | |
| | | | | 7 | 20 | 3.1847 | 31.8471 | | | | | |
| | | | | 8 | 56 | 8.9172 | 249.6815 | | | | | |
| | | | | 9 | 38 | 6.0510 | 114.9682 | | | | | |
| | | | | 10 | 28 | 4.4586 | 62.4204 | | | | | |
| | | | | 11 | 45 | 7.1656 | 161.2261 | | | | | |
| | | | | 12 | 30 | 4.7771 | 71.6561 | | | | | |
| | | | | 13 | 37 | 5.8917 | 108.9968 | | | | | |
| | | | | 14 | 24 | 3.8217 | 45.8599 | | | | | |
| | | | | 15 | 18 | 2.8662 | 25.7962 | | | | | |
| | | | | 16 | 27 | 4.2994 | 58.0414 | | | | | |
| | | | | 17 | 50 | 7.9618 | 199.0446 | | | | | |
| | | | | 18 | 66 | 10.5096 | 346.8153 | | | | | |
| | | | | 19 | 27 | 4.2994 | 58.0414 | | | | | |
| | | | | 20 | 32 | 5.0955 | 81.5287 | | | | | |
| | | | | 21 | 41 | 6.5287 | 133.8376 | | | | | |
| | | | | 22 | 44 | 7.0064 | 154.1401 | | | | | |
| | | | | 23 | 52 | 8.2803 | 215.2866 | | | | | |
| | | | | 24 | 32 | 5.0955 | 81.5287 | | | | | |
| | | | | 25 | 27 | 4.2994 | 58.0414 | | | | | |
| | | | | 26 | 38 | 6.0510 | 114.9682 | | | | | |
| | | 27 | 21 | 3.3439 | 35.1115 | | | | | | | |
| <i>A. alba</i> | | | 28 | 32 | 5.0955 | 81.5287 | 300.0796 | 3.00079618 | | | | |
| | | | 29 | 48 | 7.6433 | 183.4395 | | | | | | |
| <i>R. mucronata</i> | 3 | | 1 | 20 | 3.1847 | 31.8471 | 1223.3280 | 12.23328025 | | | | |
| | | | 2 | 32 | 5.0955 | 81.5287 | | | | | | |
| | | | 3 | 39 | 6.2102 | 121.0987 | | | | | | |
| | | | 4 | 42 | 6.6879 | 140.4459 | | | | | | |
| | | | 5 | 37 | 5.8917 | 108.9968 | | | | | | |
| | | | 6 | 18 | 2.8662 | 25.7962 | | | | | | |
| | | | 7 | 27 | 4.2994 | 58.0414 | | | | | | |
| | | | 8 | 36 | 5.7325 | 103.1847 | | | | | | |
| | | | 9 | 27 | 4.2994 | 58.0414 | | | | | | |
| | | | 10 | 24 | 3.8217 | 45.8599 | | | | | | |
| | | | 11 | 29 | 4.6178 | 66.9586 | | | | | | |
| | | | 12 | 19 | 3.0255 | 28.7420 | | | | | | |
| | | | 13 | 25 | 3.9809 | 49.7611 | | | | | | |
| | | | 14 | 28 | 4.4586 | 62.4204 | | | | | | |
| | | | 15 | 17 | 2.7070 | 23.0096 | | | | | | |
| | | | 16 | 22 | 3.5032 | 38.5350 | | | | | | |
| | | | 17 | 35 | 5.5732 | 97.5318 | | | | | | |
| | | | 18 | 32 | 5.0955 | 81.5287 | | | | | | |
| | | | 19 | 18 | 2.8662 | 25.7962 | | | | | | |
| | | <i>A. alba</i> | | | 20 | 19 | | | 3.0255 | 28.7420 | 185.5892 | 1.85589172 |
| | | | | | 21 | 21 | | | 3.3439 | 35.1115 | | |
| | | | | | 22 | 26 | | | 4.1401 | 53.8217 | | |
| | | | | | 23 | 23 | | | 3.6624 | 42.1178 | | |
| 2 (SEDANG) | <i>A. marina</i> | 1 | 1 | 51 | 8.1210 | 207.0860 | 2119.3471 | 21.19347134 | | | | |
| | | | 2 | 45 | 7.1656 | 161.2261 | | | | | | |
| | | | 3 | 47 | 7.4841 | 175.8758 | | | | | | |
| | | | 4 | 29 | 4.6178 | 66.9586 | | | | | | |
| | | | 5 | 66 | 10.5096 | 346.8153 | | | | | | |
| | | | 6 | 61 | 9.7134 | 296.2580 | | | | | | |
| | | | 7 | 26 | 4.1401 | 53.8217 | | | | | | |
| | | | 8 | 29 | 4.6178 | 66.9586 | | | | | | |
| | | | 9 | 18 | 2.8662 | 25.7962 | | | | | | |
| | | | 10 | 95 | 15.1274 | 718.5510 | | | | | | |
| | <i>R. mucronata</i> | | | 11 | 21 | 3.3439 | 35.1115 | 301.5127 | 3.015127389 | | | |
| | | | | 12 | 33 | 5.2548 | 86.7038 | | | | | |
| | | | | 13 | 24 | 3.8217 | 45.8599 | | | | | |
| | | | | 14 | 41 | 6.5287 | 133.8376 | | | | | |

| | | | | | | | | |
|---------------------|---------------------|----|----|---------|----------|-----------|-------------|-------------|
| | <i>A. marlna</i> | 2 | 1 | 45 | 7.1656 | 161.2261 | 1305.4140 | 13.05414013 |
| | | | 2 | 35 | 5.5732 | 97.5318 | | |
| | | | 3 | 34 | 5.4140 | 92.0382 | | |
| | | | 4 | 42 | 6.6879 | 140.4459 | | |
| | | | 5 | 37 | 5.8917 | 108.9968 | | |
| | | | 6 | 37 | 5.8917 | 108.9968 | | |
| | <i>A. alba</i> | 2 | 7 | 72 | 11.4650 | 412.7389 | 1530.5732 | 15.30573248 |
| | | | 8 | 48 | 7.6433 | 183.4395 | | |
| | | | 9 | 54 | 8.5987 | 232.1656 | | |
| | | | 10 | 70 | 11.1465 | 390.1274 | | |
| | | | 11 | 80 | 12.7389 | 509.5541 | | |
| | | | 12 | 48 | 7.6433 | 183.4395 | | |
| | | | 13 | 52 | 8.2803 | 215.2866 | | |
| <i>R. mucronata</i> | 3 | 1 | 42 | 6.6879 | 140.4459 | 492.2771 | 4.922770701 | |
| | | 2 | 17 | 2.7070 | 23.0096 | | | |
| | | 3 | 33 | 5.2548 | 86.7038 | | | |
| | | 4 | 24 | 3.8217 | 45.8599 | | | |
| | | 5 | 41 | 6.5287 | 133.8376 | | | |
| | | 6 | 28 | 4.4586 | 62.4204 | | | |
| <i>A. marlna</i> | 3 | 7 | 95 | 15.1274 | 718.5510 | 1417.2771 | 14.1727707 | |
| | | 8 | 29 | 4.6178 | 66.9586 | | | |
| | | 9 | 26 | 4.1401 | 53.8217 | | | |
| | | 10 | 49 | 7.8025 | 191.1624 | | | |
| | | 11 | 51 | 8.1210 | 207.0860 | | | |
| | | 12 | 41 | 6.5287 | 133.8376 | | | |
| | | 13 | 24 | 3.8217 | 45.8599 | | | |
| 3 (JARANG) | <i>S. alba</i> | 1 | 1 | 116 | 18.4713 | 1071.3376 | 2986.1465 | 29.86146497 |
| | | | 2 | 97 | 15.4459 | 749.1242 | | |
| | | | 3 | 121 | 19.2675 | 1165.6847 | | |
| | <i>R. mucronata</i> | 1 | 4 | 86 | 13.6943 | 588.8535 | 1088.5350 | 10.88535032 |
| | | | 5 | 30 | 4.7771 | 71.6561 | | |
| | | | 6 | 25 | 3.9809 | 49.7611 | | |
| | | | 7 | 23 | 3.6624 | 42.1178 | | |
| | | | 8 | 42 | 6.6879 | 140.4459 | | |
| | | | 9 | 33 | 5.2548 | 86.7038 | | |
| | | | 10 | 37 | 5.8917 | 108.9968 | | |
| | <i>S. alba</i> | 2 | 1 | 86 | 13.6943 | 588.8535 | 1548.4873 | 15.48487261 |
| | | | 2 | 82 | 13.0573 | 535.3503 | | |
| | | | 3 | 73 | 11.6242 | 424.2834 | | |
| | | | 4 | 25 | 3.9809 | 49.7611 | | |
| | <i>R. mucronata</i> | 2 | 5 | 23 | 3.6624 | 42.1178 | 223.8854 | 2.238853503 |
| | | | 6 | 27 | 4.2994 | 58.0414 | | |
| | | | 7 | 23 | 3.6624 | 42.1178 | | |
| | | | 8 | 20 | 3.1847 | 31.8471 | | |
| | <i>S. alba</i> | 3 | 1 | 42 | 6.6879 | 140.4459 | 237.9777 | 2.37977707 |
| | | | 2 | 35 | 5.5732 | 97.5318 | | |
| | | | 3 | 24 | 3.8217 | 45.8599 | | |
| <i>R. mucronata</i> | 3 | 4 | 30 | 4.7771 | 71.6561 | 234.5541 | 2.345541401 | |
| | | 5 | 19 | 3.0255 | 28.7420 | | | |
| | | 6 | 22 | 3.5032 | 38.5350 | | | |
| | | 7 | 25 | 3.9809 | 49.7611 | | | |

| Jenis | Penutupan Jenis (Ci) cm ² /m ² | | |
|---------------------|--|------------|-------------|
| | 1 | 2 | 3 |
| Stasiun 1 | | | |
| <i>R. mucronata</i> | 37.6338 | 32.2174 | 12.2333 |
| <i>A. alba</i> | 1.4395 | 3.0008 | 1.8559 |
| total | 39.07324841 | 35.2181529 | 14.0892 |
| Stasiun 2 | | | |
| <i>A. marlna</i> | 21.1935 | 13.0541 | 14.1728 |
| <i>R. mucronata</i> | 3.0151 | 0.0000 | 4.9228 |
| <i>A. alba</i> | 0.0000 | 15.3057 | 0.0000 |
| total | 24.20859873 | 28.3598726 | 19.0955414 |
| Stasiun 3 | | | |
| <i>R. mucronata</i> | 10.8854 | 2.2389 | 2.3455 |
| <i>S. alba</i> | 29.8615 | 15.4849 | 2.3798 |
| total | 40.74681529 | 17.7237261 | 4.725318471 |

Lampiran 7. Hasil Analisis Laju Sedimentasi

| Data Sedimen | | | | | | | | |
|--------------|----------------|------------------|-------------------|--------------------------|---------------------------|------------------|-------------------------------|--------------------------------------|
| stasiun | pengulangan | berat kering (g) | berat kering (mg) | waktu penempatan 30 Juni | waktu pengambilan 04 Juli | range penempatan | LS (mg/cm ² /hari) | Rata-rata Laju Sedimentasi / Stasiun |
| Stasiun 1 | 1.1 | 11.989 | 11,989 | 13:17 | 13:18 | 4.004583333 | 94.6746 | 93.8244 |
| | 1.2 | 11.766 | 11,766 | | | | 92.9136 | |
| | 1.3 | 11.889 | 11,889 | | | | 93.8849 | |
| Stasiun 2 | 2.1 | 8.638 | 8,638 | 12:44 | 12:47 | 4.002083333 | 68.1883 | 67.4989 |
| | 2.2 | 8.394 | 8,394 | | | | 66.2622 | |
| | 2.3 | 8.620 | 8,620 | | | | 68.0462 | |
| Stasiun 3 | 3.1 | 7.473 | 7,473 | 12:29 | 12:36 | 4.000666667 | 58.9550 | 59.8359 |
| | 3.2 | 7.426 | 7,426 | | | | 58.5842 | |
| | 3.3 | 7.855 | 7,855 | | | | 61.9686 | |
| r | r ² | konstanta | | | | | | |
| 3.175 | 10.080625 | 3.14 | | | | | | |

Lampiran 8. Hasil uji statistic one-way ANOVA

Mangrove (Kerapatan dan Penutupan)

Case Processing Summary

| | Cases | | | | | |
|-----------|-------|---------|---------|---------|-------|---------|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| KERAPATAN | 9 | 100.0% | 0 | 0.0% | 9 | 100.0% |
| PENUTUPAN | 9 | 100.0% | 0 | 0.0% | 9 | 100.0% |

Descriptives

| | | Statistic | Std. Error | |
|-----------|----------------------------------|-------------|------------|--|
| KERAPATAN | Mean | 1577.78 | 263.933 | |
| | 95% Confidence Interval for Mean | Lower Bound | 969.15 | |
| | | Upper Bound | 2186.41 | |
| | 5% Trimmed Mean | 1553.09 | | |
| | Median | 1300.00 | | |
| | Variance | 626944.444 | | |
| | Std. Deviation | 791.798 | | |
| | Minimum | 700 | | |
| | Maximum | 2900 | | |
| | Range | 2200 | | |
| | Interquartile Range | 1500 | | |
| | Skewness | .675 | .717 | |
| Kurtosis | -1.072 | 1.400 | | |
| PENUTUPAN | Mean | 24.8056 | 4.04791 | |
| | 95% Confidence Interval for Mean | Lower Bound | 15.4711 | |
| | | Upper Bound | 34.1400 | |
| | 5% Trimmed Mean | 25.0351 | | |
| | Median | 24.2100 | | |
| | Variance | 147.470 | | |
| | Std. Deviation | 12.14372 | | |
| | Minimum | 4.73 | | |
| | Maximum | 40.75 | | |
| | Range | 36.02 | | |
| | Interquartile Range | 21.24 | | |
| | Skewness | -.155 | .717 | |
| Kurtosis | -.911 | 1.400 | | |

Tests of Normality

| | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|-----------|---------------------------------|----|-------|--------------|----|------|
| | Statistic | df | Sig. | Statistic | df | Sig. |
| KERAPATAN | .255 | 9 | .093 | .891 | 9 | .202 |
| PENUTUPAN | .138 | 9 | .200* | .960 | 9 | .798 |

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum | |
|-----------|-----------|------|----------------|------------|----------------------------------|-------------|---------|---------|-------|
| | | | | | Lower Bound | Upper Bound | | | |
| KERAPATAN | STASIUN 1 | 3 | 2566.67 | 305.505 | 176.383 | 1807.75 | 3325.58 | 2300 | 2900 |
| | STASIUN 2 | 3 | 1333.33 | 57.735 | 33.333 | 1189.91 | 1476.76 | 1300 | 1400 |
| | STASIUN 3 | 3 | 833.33 | 152.753 | 88.192 | 453.88 | 1212.79 | 700 | 1000 |
| | Total | 9 | 1577.78 | 791.798 | 263.933 | 969.15 | 2186.41 | 700 | 2900 |
| PENUTUPAN | STASIUN 1 | 3 | 29.4600 | 13.44929 | 7.76495 | -3.9499 | 62.8699 | 14.09 | 39.07 |
| | STASIUN 2 | 3 | 23.8900 | 4.63829 | 2.67792 | 12.3679 | 35.4121 | 19.10 | 28.36 |
| | STASIUN 3 | 3 | 21.0667 | 18.24172 | 10.53186 | -24.2483 | 66.3816 | 4.73 | 40.75 |
| | Total | 9 | 24.8056 | 12.14372 | 4.04791 | 15.4711 | 34.1400 | 4.73 | 40.75 |

Test of Homogeneity of Variances

| | Levene Statistic | df1 | df2 | Sig. |
|-----------|------------------|-----|-----|------|
| KERAPATAN | 2.970 | 2 | 6 | .127 |
| PENUTUPAN | 2.257 | 2 | 6 | .186 |

ANOVA

| | | Sum of Squares | df | Mean Square | F | Sig. |
|-----------|----------------|----------------|----|-------------|--------|------|
| KERAPATAN | Between Groups | 4775555.556 | 2 | 2387777.778 | 59.694 | .000 |
| | Within Groups | 240000.000 | 6 | 40000.000 | | |
| | Total | 5015555.556 | 8 | | | |
| PENUTUPAN | Between Groups | 109.444 | 2 | 54.722 | .307 | .747 |
| | Within Groups | 1070.314 | 6 | 178.386 | | |
| | Total | 1179.759 | 8 | | | |

Post Hoc Tests

Multiple Comparisons

Tukey HSD

| Dependent Variable | (I) stasiun | (J) stasiun | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|--------------------|-------------|-------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | | Lower Bound | Upper Bound |
| KERAPATAN | STASIUN 1 | STASIUN 2 | 1233.333* | 163.299 | .001 | 732.29 | 1734.38 |
| | | STASIUN 3 | 1733.333* | 163.299 | .000 | 1232.29 | 2234.38 |
| | STASIUN 2 | STASIUN 1 | -1233.333* | 163.299 | .001 | -1734.38 | -732.29 |
| | | STASIUN 3 | 500.000 | 163.299 | .050 | -1.05 | 1001.05 |
| | STASIUN 3 | STASIUN 1 | -1733.333* | 163.299 | .000 | -2234.38 | -1232.29 |
| | | STASIUN 2 | -500.000 | 163.299 | .050 | -1001.05 | 1.05 |
| PENUTUPAN | STASIUN 1 | STASIUN 2 | 5.57000 | 10.90522 | .869 | -27.8902 | 39.0302 |
| | | STASIUN 3 | 8.39333 | 10.90522 | .734 | -25.0669 | 41.8535 |
| | STASIUN 2 | STASIUN 1 | -5.57000 | 10.90522 | .869 | -39.0302 | 27.8902 |
| | | STASIUN 3 | 2.82333 | 10.90522 | .964 | -30.6369 | 36.2835 |
| | STASIUN 3 | STASIUN 1 | -8.39333 | 10.90522 | .734 | -41.8535 | 25.0669 |
| | | STASIUN 2 | -2.82333 | 10.90522 | .964 | -36.2835 | 30.6369 |

*. The mean difference is significant at the 0.05 level.

KERAPATAN

Tukey HSD^a

| stasiun | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| STASIUN 3 | 3 | 833.33 | |
| STASIUN 2 | 3 | 1333.33 | |
| STASIUN 1 | 3 | | 2566.67 |
| Sig. | | .050 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

PENUTUPAN

Tukey HSD^a

| stasiun | N | Subset for alpha = 0.05 |
|-----------|---|-------------------------|
| | | 1 |
| STASIUN 3 | 3 | 21.0667 |
| STASIUN 2 | 3 | 23.8900 |
| STASIUN 1 | 3 | 29.4600 |
| Sig. | | .734 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 9. Laju Sedimensi

Descriptives

LajuSedimentasi

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-----------|---|---------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| | | | | | Stasiun 1 | 3 | | |
| Stasiun 2 | 3 | 67.4980 | 1.07449 | .62036 | 64.8288 | 70.1672 | 66.26 | 68.19 |
| Stasiun 3 | 3 | 59.8357 | 1.85595 | 1.07153 | 55.2252 | 64.4461 | 58.58 | 61.97 |
| Total | 9 | 73.7182 | 15.48128 | 5.16043 | 61.8183 | 85.6182 | 58.58 | 94.67 |

Test of Homogeneity of Variances

LajuSedimentasi

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 2.082 | 2 | 6 | .206 |

ANOVA

LajuSedimentasi

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|---------|------|
| Between Groups | 1906.615 | 2 | 953.307 | 532.233 | .000 |
| Within Groups | 10.747 | 6 | 1.791 | | |
| Total | 1917.361 | 8 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: LajuSedimentasi

Tukey HSD

| (I) Stasiun | (J) Stasiun | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------|-------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Stasiun 1 | Stasiun 2 | 26.32300* | 1.09275 | .000 | 22.9701 | 29.6759 |
| | Stasiun 3 | 33.98533* | 1.09275 | .000 | 30.6325 | 37.3382 |
| Stasiun 2 | Stasiun 1 | -26.32300* | 1.09275 | .000 | -29.6759 | -22.9701 |
| | Stasiun 3 | 7.66233* | 1.09275 | .001 | 4.3095 | 11.0152 |
| Stasiun 3 | Stasiun 1 | -33.98533* | 1.09275 | .000 | -37.3382 | -30.6325 |
| | Stasiun 2 | -7.66233* | 1.09275 | .001 | -11.0152 | -4.3095 |

*. The mean difference is significant at the 0.05 level.

LajuSedimentasi

Tukey HSD^a

| Stasiun | N | Subset for alpha = 0.05 | | |
|-----------|---|-------------------------|---------|---------|
| | | 1 | 2 | 3 |
| Stasiun 3 | 3 | 59.8357 | | |
| Stasiun 2 | 3 | | 67.4980 | |
| Stasiun 1 | 3 | | | 93.8210 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 10. Hasil Analisis Regresi Linier Sederhana

Descriptive Statistics

| | Mean | Std. Deviation | N |
|-------------------|----------|----------------|---|
| LajuSedimentasi | 106,0122 | 21,03579 | 9 |
| KerapatanMangrove | 1577,78 | 791,798 | 9 |

Correlations

| | | LajuSedimentasi | KerapatanMangrove |
|---------------------|-------------------|-----------------|-------------------|
| Pearson Correlation | LajuSedimentasi | 1,000 | ,979 |
| | KerapatanMangrove | ,979 | 1,000 |
| Sig. (1-tailed) | LajuSedimentasi | . | ,000 |
| | KerapatanMangrove | ,000 | . |
| N | LajuSedimentasi | 9 | 9 |
| | KerapatanMangrove | 9 | 9 |

Variables Entered/Removed^a

| Model | Variables Entered | Variables Removed | Method |
|-------|--------------------------------|-------------------|--------|
| 1 | KerapatanMangrove ^b | . | Enter |

a. Dependent Variable: LajuSedimentasi

b. All requested variables entered.

Model Summary^b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics | | | Sig. F Change | |
|-------|-------------------|----------|-------------------|----------------------------|-------------------|----------|-----|---------------|------|
| | | | | | R Square Change | F Change | df1 | | df2 |
| 1 | ,979 ^a | ,959 | ,953 | 4,54715 | ,959 | 164,210 | 1 | 7 | ,000 |

a. Predictors: (Constant), KerapatanMangrove

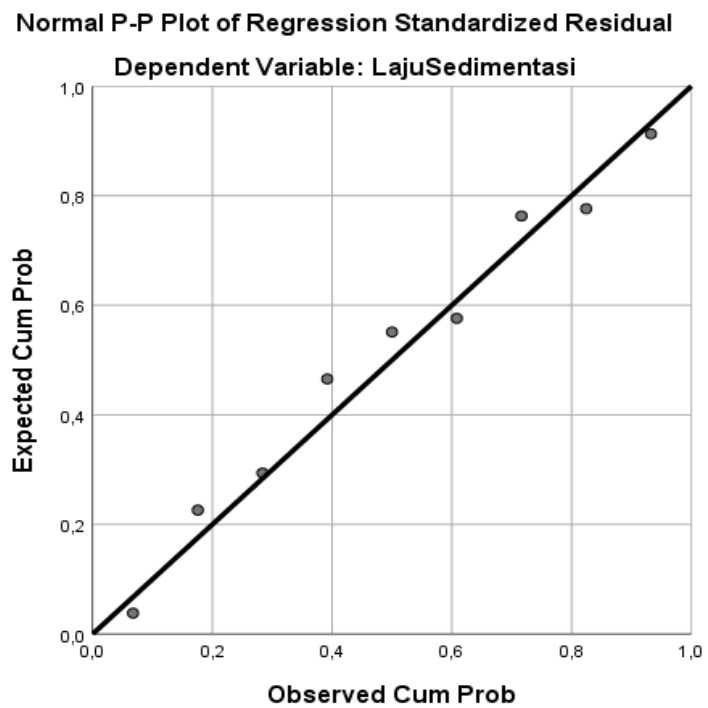
b. Dependent Variable: LajuSedimentasi

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|---------|-------------------|
| 1 | Regression | 3395,301 | 1 | 3395,301 | 164,210 | ,000 ^b |
| | Residual | 144,736 | 7 | 20,677 | | |
| | Total | 3540,037 | 8 | | | |

a. Dependent Variable: LajuSedimentasi

b. Predictors: (Constant), KerapatanMangrove



Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized | t | Sig. |
|-------|-------------------|-----------------------------|------------|--------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 64,961 | 3,544 | | 18,330 | ,000 |
| | KerapatanMangrove | ,026 | ,002 | ,979 | 12,814 | ,000 |

a. Dependent Variable: LajuSedimentasi

Lampiran 11. Dokumentasi Penelitian



Gambar 11. Pengambilan data mangrove



Gambar 12. Pemasangan *sediment trap* dan pengukuran kecepatan arus



Gambar 13. Analisis salinitas perairan Sungai Tallo, di Laboratorium



Gambar 14. Proses pengendapan sedimen di Laboratorium



Gambar 15. Analisis Laju Sedimentasi di Laboratorium