

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**JANUARY – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FRI | 1  | 239 | 208 | 162 | 117 | 81  | 67  | 78  | 119 | 181 | 248 | 307 | 347 | 366 | 348 | 297 | 237 | 182 | 142 | 119 | 117 | 139 | 173 | 210 | 232 |     |
| SAT | 2  | 241 | 231 | 195 | 150 | 109 | 81  | 75  | 94  | 142 | 204 | 269 | 320 | 351 | 360 | 331 | 278 | 220 | 170 | 135 | 115 | 119 | 143 | 178 | 212 |     |
| SUN | 3  | 231 | 239 | 225 | 190 | 148 | 111 | 90  | 89  | 113 | 161 | 221 | 280 | 323 | 348 | 348 | 315 | 263 | 208 | 161 | 128 | 112 | 118 | 143 | 178 |     |
| MON | 4  | 210 | 230 | 239 | 226 | 195 | 156 | 123 | 105 | 106 | 129 | 173 | 229 | 282 | 319 | 340 | 335 | 303 | 253 | 200 | 154 | 121 | 105 | 111 | 137 |     |
| TUE | 5  | 174 | 207 | 233 | 246 | 238 | 211 | 175 | 143 | 124 | 121 | 138 | 175 | 225 | 273 | 308 | 328 | 324 | 296 | 248 | 194 | 147 | 111 | 94  | 99  |     |
| WED | 6  | ●   | 126 | 167 | 208 | 241 | 260 | 260 | 238 | 203 | 167 | 142 | 130 | 139 | 168 | 212 | 258 | 294 | 316 | 317 | 292 | 244 | 188 | 137 | 99  | 78  |
| THU | 7  |     | 84  | 114 | 163 | 213 | 255 | 284 | 291 | 272 | 233 | 191 | 156 | 133 | 132 | 152 | 193 | 239 | 279 | 305 | 310 | 289 | 240 | 180 | 126 | 83  |
| FRI | 8  |     | 62  | 69  | 106 | 164 | 224 | 277 | 313 | 326 | 306 | 260 | 209 | 162 | 130 | 119 | 133 | 173 | 222 | 267 | 297 | 305 | 284 | 232 | 169 | 111 |
| SAT | 9  |     | 67  | 48  | 60  | 105 | 172 | 242 | 303 | 345 | 359 | 334 | 279 | 218 | 161 | 121 | 104 | 116 | 157 | 210 | 259 | 290 | 299 | 275 | 220 | 155 |
| SUN | 10 |     | 94  | 52  | 38  | 57  | 113 | 188 | 266 | 331 | 375 | 385 | 349 | 286 | 216 | 153 | 109 | 89  | 105 | 149 | 206 | 255 | 284 | 292 | 263 | 204 |
| MON | 11 |     | 138 | 77  | 40  | 33  | 63  | 128 | 210 | 293 | 357 | 399 | 400 | 352 | 281 | 205 | 141 | 97  | 79  | 101 | 149 | 209 | 254 | 281 | 285 | 248 |
| TUE | 12 |     | 187 | 119 | 63  | 33  | 35  | 77  | 149 | 236 | 318 | 378 | 414 | 400 | 343 | 266 | 190 | 129 | 86  | 77  | 105 | 157 | 215 | 254 | 279 | 275 |
| WED | 13 | ●   | 232 | 169 | 103 | 55  | 33  | 45  | 98  | 174 | 262 | 337 | 392 | 416 | 388 | 324 | 246 | 175 | 118 | 81  | 81  | 115 | 170 | 221 | 255 | 276 |
| THU | 14 |     | 263 | 216 | 152 | 92  | 54  | 41  | 65  | 123 | 202 | 285 | 349 | 396 | 404 | 365 | 297 | 223 | 161 | 110 | 83  | 92  | 130 | 184 | 226 | 256 |
| FRI | 15 |     | 269 | 249 | 200 | 138 | 89  | 61  | 58  | 91  | 151 | 228 | 300 | 354 | 387 | 381 | 335 | 268 | 202 | 149 | 107 | 91  | 106 | 147 | 195 | 229 |
| SAT | 16 |     | 255 | 260 | 235 | 186 | 132 | 94  | 76  | 83  | 121 | 180 | 250 | 308 | 350 | 368 | 350 | 302 | 240 | 185 | 140 | 108 | 102 | 121 | 162 | 202 |
| SUN | 17 |     | 231 | 252 | 250 | 223 | 178 | 135 | 108 | 98  | 112 | 150 | 205 | 263 | 307 | 337 | 341 | 318 | 272 | 218 | 172 | 135 | 112 | 112 | 134 | 172 |
| MON | 18 |     | 205 | 232 | 247 | 243 | 218 | 180 | 148 | 127 | 124 | 140 | 173 | 219 | 264 | 297 | 316 | 313 | 289 | 248 | 204 | 164 | 132 | 116 | 118 | 141 |
| TUE | 19 |     | 174 | 206 | 232 | 246 | 243 | 223 | 194 | 168 | 151 | 148 | 160 | 186 | 222 | 255 | 280 | 293 | 289 | 268 | 233 | 195 | 159 | 130 | 116 | 119 |
| WED | 20 |     | 142 | 174 | 207 | 235 | 251 | 253 | 238 | 214 | 190 | 172 | 164 | 169 | 186 | 212 | 239 | 261 | 273 | 272 | 255 | 225 | 189 | 154 | 126 | 112 |
| THU | 21 | ●   | 116 | 140 | 174 | 211 | 243 | 265 | 271 | 260 | 236 | 208 | 184 | 169 | 166 | 176 | 197 | 223 | 246 | 261 | 262 | 248 | 220 | 183 | 145 | 116 |
| FRI | 22 |     | 104 | 111 | 139 | 179 | 222 | 261 | 287 | 294 | 281 | 251 | 216 | 184 | 163 | 154 | 161 | 183 | 212 | 239 | 257 | 259 | 244 | 212 | 172 | 131 |
| SAT | 23 |     | 103 | 94  | 108 | 145 | 192 | 243 | 286 | 313 | 317 | 294 | 256 | 212 | 174 | 148 | 138 | 149 | 176 | 210 | 241 | 258 | 259 | 237 | 200 | 155 |
| SUN | 24 |     | 113 | 89  | 87  | 112 | 159 | 214 | 271 | 315 | 338 | 331 | 296 | 247 | 196 | 156 | 131 | 125 | 145 | 179 | 218 | 248 | 261 | 255 | 224 | 180 |
| MON | 25 |     | 132 | 94  | 78  | 87  | 126 | 182 | 245 | 303 | 342 | 356 | 333 | 284 | 228 | 175 | 137 | 116 | 122 | 151 | 192 | 232 | 256 | 263 | 244 | 203 |
| TUE | 26 |     | 154 | 106 | 77  | 71  | 96  | 149 | 213 | 280 | 333 | 364 | 362 | 321 | 263 | 202 | 152 | 120 | 108 | 128 | 166 | 211 | 247 | 263 | 260 | 227 |
| WED | 27 |     | 177 | 125 | 83  | 64  | 72  | 114 | 179 | 249 | 314 | 359 | 379 | 356 | 300 | 235 | 174 | 132 | 107 | 110 | 142 | 187 | 232 | 259 | 267 | 251 |
| THU | 28 |     | 205 | 150 | 98  | 64  | 57  | 81  | 139 | 212 | 285 | 343 | 379 | 383 | 340 | 274 | 205 | 150 | 114 | 100 | 118 | 160 | 210 | 249 | 268 | 268 |
| FRI | 29 | ○   | 237 | 182 | 125 | 77  | 54  | 59  | 99  | 168 | 245 | 317 | 365 | 390 | 375 | 317 | 245 | 178 | 130 | 102 | 100 | 130 | 178 | 228 | 260 | 274 |
| SAT | 30 |     | 265 | 222 | 163 | 106 | 66  | 53  | 70  | 123 | 197 | 275 | 338 | 377 | 390 | 356 | 290 | 218 | 156 | 115 | 95  | 105 | 143 | 194 | 240 | 266 |
| SUN | 31 |     | 277 | 257 | 208 | 150 | 98  | 67  | 62  | 90  | 150 | 224 | 297 | 349 | 378 | 376 | 330 | 262 | 194 | 139 | 105 | 94  | 114 | 156 | 207 | 247 |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**FEBRUARY – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|       |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MON   | 1  | 270 | 276 | 250 | 200 | 146 | 102 | 79  | 81  | 116 | 175 | 244 | 307 | 347 | 367 | 351 | 301 | 236 | 174 | 128 | 100 | 97  | 122 | 165 | 214 |     |
| TUE   | 2  | 249 | 271 | 274 | 247 | 202 | 153 | 117 | 99  | 105 | 139 | 192 | 253 | 303 | 334 | 344 | 323 | 275 | 216 | 161 | 121 | 98  | 100 | 126 | 169 |     |
| WED   | 3  | 215 | 250 | 273 | 276 | 255 | 216 | 173 | 141 | 124 | 128 | 153 | 196 | 246 | 286 | 312 | 318 | 299 | 258 | 205 | 155 | 119 | 99  | 100 | 123 |     |
| THU   | 4  | 165 | 211 | 249 | 277 | 286 | 274 | 242 | 203 | 170 | 148 | 142 | 155 | 185 | 225 | 260 | 284 | 293 | 283 | 250 | 203 | 157 | 120 | 97  | 94  |     |
| FRI   | 5  | ●   | 114 | 155 | 204 | 250 | 286 | 306 | 303 | 277 | 237 | 198 | 165 | 145 | 144 | 162 | 195 | 230 | 260 | 277 | 276 | 252 | 209 | 161 | 120 | 90  |
| SAT   | 6  |     | 83  | 100 | 142 | 198 | 254 | 301 | 332 | 338 | 313 | 267 | 217 | 171 | 138 | 124 | 134 | 166 | 206 | 244 | 270 | 277 | 258 | 215 | 164 | 115 |
| SUN   | 7  |     | 81  | 70  | 87  | 134 | 198 | 265 | 322 | 360 | 369 | 340 | 286 | 224 | 166 | 124 | 101 | 109 | 145 | 194 | 240 | 271 | 283 | 264 | 217 | 159 |
| MON   | 8  |     | 105 | 69  | 58  | 80  | 134 | 207 | 283 | 344 | 386 | 391 | 352 | 289 | 218 | 154 | 106 | 83  | 96  | 139 | 196 | 245 | 277 | 288 | 263 | 210 |
| TUE   | 9  |     | 146 | 90  | 56  | 51  | 82  | 145 | 226 | 306 | 366 | 404 | 398 | 348 | 276 | 200 | 136 | 90  | 74  | 97  | 149 | 210 | 255 | 286 | 290 | 255 |
| WED   | 10 |     | 194 | 127 | 75  | 47  | 52  | 95  | 166 | 253 | 329 | 384 | 412 | 390 | 329 | 251 | 177 | 118 | 78  | 77  | 111 | 170 | 228 | 267 | 293 | 285 |
| THU   | 11 |     | 238 | 172 | 107 | 63  | 44  | 63  | 118 | 196 | 281 | 348 | 396 | 407 | 368 | 298 | 221 | 154 | 102 | 76  | 90  | 135 | 196 | 245 | 279 | 295 |
| FRI   | 12 | ●   | 272 | 217 | 149 | 92  | 58  | 52  | 86  | 148 | 230 | 306 | 361 | 396 | 386 | 334 | 261 | 190 | 133 | 92  | 84  | 111 | 163 | 220 | 259 | 287 |
| SAT   | 13 |     | 289 | 253 | 193 | 130 | 85  | 63  | 73  | 117 | 184 | 261 | 322 | 365 | 381 | 353 | 294 | 223 | 163 | 118 | 92  | 100 | 136 | 190 | 238 | 269 |
| SUN   | 14 |     | 288 | 275 | 232 | 173 | 120 | 89  | 80  | 103 | 152 | 218 | 283 | 329 | 356 | 352 | 312 | 252 | 190 | 143 | 110 | 101 | 121 | 162 | 212 | 250 |
| MON   | 15 |     | 274 | 280 | 257 | 213 | 161 | 122 | 103 | 107 | 137 | 186 | 245 | 293 | 323 | 334 | 314 | 271 | 215 | 166 | 132 | 112 | 117 | 142 | 184 | 226 |
| TUE   | 16 |     | 255 | 273 | 269 | 242 | 202 | 161 | 136 | 126 | 138 | 169 | 211 | 256 | 288 | 305 | 302 | 276 | 235 | 190 | 154 | 130 | 122 | 133 | 160 | 197 |
| WED   | 17 |     | 231 | 255 | 266 | 258 | 235 | 203 | 174 | 157 | 153 | 165 | 189 | 221 | 251 | 270 | 277 | 268 | 244 | 211 | 178 | 153 | 136 | 133 | 145 | 170 |
| THU   | 18 |     | 201 | 229 | 251 | 261 | 256 | 239 | 216 | 195 | 180 | 175 | 181 | 195 | 215 | 233 | 245 | 249 | 242 | 225 | 202 | 179 | 158 | 144 | 141 | 150 |
| FRI   | 19 |     | 171 | 198 | 226 | 249 | 262 | 264 | 254 | 237 | 217 | 198 | 186 | 182 | 186 | 197 | 210 | 222 | 230 | 230 | 221 | 205 | 185 | 164 | 146 | 139 |
| SAT   | 20 | ●   | 146 | 165 | 193 | 225 | 254 | 275 | 283 | 277 | 257 | 231 | 204 | 182 | 170 | 167 | 175 | 190 | 209 | 224 | 231 | 227 | 212 | 189 | 162 | 139 |
| SUN   | 21 |     | 129 | 135 | 158 | 193 | 232 | 270 | 297 | 308 | 298 | 270 | 234 | 196 | 167 | 149 | 145 | 158 | 182 | 210 | 232 | 241 | 237 | 215 | 184 | 150 |
| MON   | 22 |     | 123 | 114 | 124 | 156 | 201 | 250 | 295 | 324 | 332 | 311 | 270 | 222 | 177 | 145 | 126 | 130 | 154 | 188 | 224 | 247 | 255 | 242 | 209 | 169 |
| TUE   | 23 |     | 128 | 102 | 97  | 119 | 165 | 220 | 279 | 325 | 351 | 348 | 310 | 257 | 200 | 153 | 121 | 110 | 128 | 164 | 208 | 245 | 264 | 265 | 238 | 193 |
| WED   | 24 |     | 144 | 102 | 81  | 87  | 124 | 184 | 250 | 312 | 355 | 372 | 351 | 296 | 232 | 172 | 128 | 102 | 104 | 138 | 186 | 234 | 266 | 279 | 266 | 223 |
| THU</ |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**MARCH – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MON | 1  | 316 | 281 | 216 | 148 | 92  | 62  | 62  | 101 | 170 | 250 | 320 | 364 | 384 | 362 | 298 | 220 | 149 | 98  | 73  | 80  | 123 | 184 | 246 | 289 |     |
| TUE | 2  | 315 | 313 | 271 | 209 | 147 | 101 | 79  | 86  | 128 | 193 | 264 | 318 | 350 | 357 | 324 | 260 | 190 | 130 | 91  | 77  | 95  | 141 | 200 | 256 |     |
| WED | 3  | 294 | 316 | 307 | 267 | 211 | 158 | 121 | 104 | 114 | 151 | 205 | 262 | 301 | 323 | 321 | 286 | 230 | 171 | 123 | 94  | 88  | 110 | 153 | 209 |     |
| THU | 4  | 258 | 293 | 312 | 304 | 272 | 225 | 180 | 148 | 131 | 135 | 161 | 201 | 244 | 273 | 289 | 285 | 258 | 214 | 166 | 128 | 105 | 101 | 118 | 156 |     |
| FRI | 5  | 205 | 251 | 288 | 310 | 310 | 289 | 251 | 211 | 177 | 153 | 145 | 155 | 181 | 213 | 239 | 257 | 260 | 247 | 216 | 177 | 142 | 117 | 108 | 117 |     |
| SAT | 6  | ●   | 146 | 191 | 239 | 281 | 312 | 325 | 316 | 284 | 243 | 201 | 165 | 142 | 136 | 150 | 178 | 208 | 235 | 251 | 252 | 231 | 196 | 158 | 126 | 106 |
| SUN | 7  |     | 106 | 129 | 173 | 226 | 278 | 322 | 347 | 346 | 316 | 268 | 215 | 164 | 127 | 110 | 118 | 148 | 188 | 227 | 256 | 267 | 252 | 215 | 169 | 126 |
| MON | 8  |     | 97  | 90  | 110 | 157 | 219 | 284 | 337 | 371 | 373 | 337 | 279 | 214 | 153 | 107 | 84  | 95  | 134 | 186 | 234 | 270 | 286 | 268 | 224 | 168 |
| TUE | 9  |     | 116 | 83  | 74  | 98  | 153 | 225 | 298 | 355 | 390 | 386 | 341 | 273 | 199 | 135 | 87  | 69  | 89  | 139 | 201 | 251 | 288 | 300 | 273 | 218 |
| WED | 10 |     | 154 | 101 | 69  | 66  | 100 | 164 | 244 | 317 | 371 | 400 | 383 | 326 | 250 | 176 | 114 | 73  | 68  | 102 | 162 | 225 | 271 | 304 | 304 | 263 |
| THU | 11 |     | 198 | 132 | 84  | 60  | 70  | 117 | 189 | 271 | 336 | 383 | 397 | 362 | 294 | 217 | 148 | 95  | 68  | 81  | 129 | 196 | 251 | 291 | 314 | 295 |
| FRI | 12 |     | 241 | 172 | 111 | 72  | 61  | 87  | 146 | 224 | 298 | 352 | 387 | 379 | 327 | 254 | 180 | 122 | 81  | 75  | 107 | 165 | 230 | 275 | 307 | 313 |
| SAT | 13 | ●   | 276 | 213 | 145 | 95  | 69  | 74  | 116 | 182 | 258 | 319 | 360 | 376 | 346 | 283 | 210 | 147 | 101 | 78  | 93  | 139 | 202 | 258 | 294 | 315 |
| SUN | 14 |     | 300 | 251 | 185 | 126 | 90  | 78  | 100 | 151 | 219 | 285 | 329 | 356 | 349 | 302 | 236 | 170 | 121 | 90  | 88  | 121 | 175 | 235 | 278 | 306 |
| MON | 15 |     | 311 | 279 | 224 | 163 | 119 | 96  | 99  | 133 | 187 | 249 | 298 | 327 | 336 | 308 | 255 | 192 | 140 | 106 | 93  | 111 | 153 | 208 | 259 | 291 |
| TUE | 16 |     | 308 | 296 | 255 | 202 | 152 | 123 | 112 | 128 | 167 | 217 | 266 | 297 | 312 | 301 | 262 | 210 | 159 | 123 | 105 | 109 | 140 | 185 | 235 | 273 |
| WED | 17 |     | 296 | 300 | 276 | 234 | 189 | 154 | 136 | 136 | 159 | 194 | 235 | 267 | 283 | 283 | 260 | 220 | 177 | 141 | 121 | 117 | 134 | 168 | 210 | 250 |
| THU | 18 |     | 277 | 291 | 285 | 258 | 222 | 188 | 166 | 156 | 161 | 182 | 209 | 236 | 253 | 258 | 249 | 223 | 191 | 160 | 139 | 131 | 136 | 157 | 189 | 223 |
| FRI | 19 |     | 253 | 273 | 281 | 272 | 250 | 223 | 198 | 183 | 176 | 179 | 192 | 208 | 222 | 229 | 230 | 219 | 200 | 179 | 161 | 150 | 147 | 154 | 172 | 196 |
| SAT | 20 |     | 224 | 247 | 265 | 273 | 268 | 254 | 234 | 215 | 200 | 188 | 184 | 186 | 193 | 200 | 206 | 208 | 205 | 196 | 185 | 173 | 165 | 160 | 161 | 172 |
| SUN | 21 |     | 191 | 215 | 239 | 260 | 274 | 277 | 270 | 253 | 231 | 208 | 187 | 174 | 168 | 170 | 178 | 190 | 202 | 208 | 208 | 201 | 189 | 175 | 161 | 154 |
| MON | 22 | ○   | 160 | 177 | 204 | 235 | 265 | 289 | 298 | 293 | 271 | 239 | 204 | 173 | 152 | 143 | 148 | 166 | 189 | 212 | 226 | 229 | 219 | 197 | 172 | 148 |
| TUE | 23 |     | 135 | 140 | 162 | 199 | 241 | 283 | 313 | 325 | 314 | 279 | 234 | 188 | 150 | 126 | 120 | 137 | 168 | 204 | 235 | 251 | 250 | 229 | 194 | 156 |
| WED | 24 |     | 124 | 111 | 120 | 155 | 206 | 261 | 310 | 342 | 350 | 325 | 273 | 216 | 162 | 122 | 102 | 107 | 140 | 185 | 230 | 262 | 275 | 264 | 226 | 177 |
| THU | 25 |     | 130 | 97  | 89  | 109 | 161 | 226 | 290 | 341 | 369 | 365 | 321 | 254 | 187 | 132 | 96  | 84  | 107 | 157 | 213 | 261 | 288 | 294 | 267 | 211 |
| FRI | 26 |     | 151 | 101 | 73  | 74  | 111 | 179 | 255 | 323 | 368 | 388 | 367 | 302 | 224 | 153 | 101 | 74  | 77  | 120 | 183 | 246 | 290 | 312 | 307 | 259 |
| SAT | 27 |     | 190 | 124 | 76  | 56  | 70  | 125 | 205 | 286 | 350 | 387 | 394 | 351 | 271 | 188 | 119 | 75  | 58  | 82  | 142 | 215 | 278 | 316 | 332 | 310 |
| SUN | 28 |     | 245 | 169 | 103 | 61  | 50  | 78  | 146 | 232 | 312 | 366 | 394 | 384 | 321 | 234 | 152 | 89  | 55  | 54  | 97  | 168 | 245 | 304 | 337 | 346 |
| MON | 29 | ○   | 306 | 231 | 155 | 92  | 58  | 56  | 96  | 170 | 254 | 325 | 367 | 385 | 357 | 282 | 197 | 121 | 68  | 46  | 62  | 119 | 196 | 271 | 322 | 352 |
| TUE | 30 |     | 350 | 297 | 221 | 149 | 94  | 66  | 72  | 118 | 189 | 266 | 323 | 354 | 360 | 317 | 242 | 164 | 99  | 60  | 50  | 82  | 145 | 221 | 289 | 333 |
| WED | 31 |     | 359 | 344 | 288 | 217 | 153 | 107 | 85  | 95  | 139 | 201 | 264 | 306 | 328 | 322 | 275 | 207 | 141 | 91  | 64  | 67  | 106 | 168 | 239 | 297 |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**APRIL – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| THU | 1  | 336 | 355 | 335 | 283 | 221 | 167 | 128 | 108 | 117 | 151 | 201 | 248 | 278 | 293 | 282 | 241 | 186 | 133 | 96  | 80  | 90  | 127 | 183 | 245 |     |
| FRI | 2  | 295 | 331 | 345 | 328 | 287 | 235 | 189 | 152 | 131 | 131 | 151 | 187 | 221 | 245 | 258 | 251 | 223 | 182 | 142 | 114 | 101 | 109 | 138 | 184 |     |
| SAT | 3  | 238 | 283 | 319 | 336 | 330 | 301 | 258 | 214 | 175 | 145 | 132 | 138 | 162 | 189 | 214 | 232 | 237 | 225 | 196 | 164 | 137 | 120 | 118 | 135 |     |
| SUN | 4  | ●   | 172 | 219 | 266 | 306 | 333 | 340 | 322 | 284 | 237 | 189 | 147 | 120 | 115 | 131 | 159 | 192 | 222 | 242 | 243 | 223 | 192 | 158 | 130 | 116 |
| MON | 5  |     | 121 | 150 | 197 | 250 | 300 | 338 | 356 | 345 | 306 | 251 | 192 | 139 | 101 | 89  | 104 | 141 | 186 | 229 | 260 | 270 | 252 | 214 | 169 | 129 |
| TUE | 6  |     | 105 | 103 | 129 | 180 | 242 | 302 | 349 | 373 | 361 | 315 | 251 | 182 | 122 | 81  | 68  | 92  | 140 | 197 | 247 | 284 | 295 | 271 | 222 | 166 |
| WED | 7  |     | 119 | 91  | 88  | 119 | 177 | 248 | 312 | 360 | 382 | 363 | 306 | 234 | 162 | 103 | 64  | 62  | 98  | 157 | 220 | 271 | 306 | 309 | 273 | 214 |
| THU | 8  |     | 152 | 105 | 79  | 84  | 125 | 191 | 266 | 326 | 369 | 380 | 346 | 280 | 205 | 136 | 84  | 58  | 72  | 122 | 189 | 249 | 295 | 323 | 309 | 259 |
| FRI | 9  |     | 193 | 133 | 92  | 75  | 95  | 146 | 218 | 288 | 338 | 370 | 363 | 313 | 242 | 169 | 110 | 70  | 64  | 97  | 158 | 226 | 278 | 317 | 328 | 295 |
| SAT | 10 |     | 234 | 167 | 115 | 84  | 83  | 118 | 178 | 249 | 306 | 345 | 360 | 331 | 270 | 197 | 133 | 88  | 66  | 82  | 132 | 200 | 261 | 304 | 331 | 320 |
| SUN | 11 |     | 272 | 206 | 144 | 104 | 86  | 101 | 148 | 211 | 275 | 317 | 342 | 335 | 289 | 223 | 155 | 105 | 75  | 75  | 112 | 172 | 239 | 290 | 324 | 333 |
| MON | 12 | ●   | 302 | 244 | 180 | 129 | 101 | 98  | 128 | 180 | 240 | 289 | 317 | 325 | 297 | 241 | 177 | 122 | 87  | 76  | 99  | 149 | 213 | 272 | 311 | 333 |
| TUE | 13 |     | 322 | 276 | 217 | 161 | 124 | 109 | 120 | 158 | 208 | 258 | 290 | 304 | 293 | 251 | 195 | 141 | 102 | 84  | 93  | 133 | 189 | 248 | 295 | 323 |
| WED | 14 |     | 329 | 299 | 249 | 195 | 152 | 128 | 124 | 147 | 185 | 228 | 262 | 279 | 279 | 252 | 206 | 158 | 118 | 97  | 96  | 123 | 171 | 225 | 274 | 307 |
| THU | 15 |     | 324 | 312 | 273 | 225 | 181 | 152 | 139 | 145 | 171 | 204 | 236 | 254 | 259 | 246 | 211 | 170 | 134 | 111 | 106 | 120 | 157 | 204 | 251 | 288 |
| FRI | 16 |     | 309 | 313 | 290 | 250 | 210 | 177 | 160 | 154 | 164 | 187 | 211 | 230 | 237 | 234 | 213 | 181 | 150 | 127 | 119 | 124 | 147 | 185 | 226 | 264 |
| SAT | 17 |     | 289 | 302 | 297 | 271 | 238 | 206 | 183 | 171 | 167 | 175 | 190 | 206 | 215 | 217 | 210 | 191 | 168 | 148 | 135 | 135 | 145 | 168 | 200 | 234 |
| SUN | 18 |     | 263 | 282 | 292 | 285 | 265 | 239 | 214 | 194 | 179 | 171 | 173 | 181 | 191 | 197 | 200 | 197 | 186 | 173 | 160 | 152 | 152 | 158 | 174 | 199 |
| MON | 19 |     | 227 | 253 | 274 | 286 | 285 | 273 | 251 | 226 | 202 | 180 | 164 | 159 | 162 | 172 | 183 | 194 | 201 | 199 | 191 | 180 | 168 | 160 | 157 | 165 |
| TUE | 20 | ○   | 185 | 213 | 243 | 271 | 292 | 299 | 291 | 269 | 236 | 201 | 169 | 145 | 136 | 140 | 157 | 179 | 202 | 219 | 224 | 216 | 198 | 176 | 156 | 142 |
| WED | 21 |     | 145 | 165 | 199 | 240 | 279 | 309 | 322 | 314 | 283 | 236 | 189 | 147 | 119 | 110 | 122 | 153 | 189 | 224 | 247 | 253 | 239 | 207 | 172 | 139 |
| THU | 22 |     | 120 | 122 | 147 | 195 | 248 | 298 | 334 | 346 | 331 | 284 | 224 | 166 | 119 | 92  | 89  | 116 | 162 | 212 | 254 | 278 | 280 | 253 | 205 | 157 |
| FRI | 23 |     | 116 | 96  | 102 | 140 | 202 | 267 | 322 | 357 | 364 | 335 | 270 | 199 | 135 | 89  | 68  | 78  | 124 | 185 | 244 | 287 | 308 | 301 | 256 | 193 |
| SAT | 24 |     | 136 | 93  | 77  | 93  | 145 | 219 | 290 | 345 | 373 | 370 | 321 | 242 | 165 | 101 | 61  | 51  | 80  | 144 | 216 | 279 | 318 | 335 | 313 | 249 |
| SUN |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**MAY – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SAT | 1  | 322 | 359 | 368 | 343 | 294 | 237 | 187 | 144 | 116 | 112 | 132 | 167 | 199 | 224 | 239 | 232 | 205 | 164 | 128 | 105 | 97  | 112 | 149 | 203 |     |
| SUN | 2  | 260 | 307 | 342 | 354 | 340 | 301 | 251 | 202 | 156 | 121 | 107 | 118 | 145 | 176 | 205 | 226 | 232 | 217 | 186 | 154 | 129 | 116 | 121 | 146 |     |
| MON | 3  | 190 | 241 | 289 | 327 | 347 | 343 | 312 | 266 | 213 | 160 | 117 | 95  | 99  | 124 | 159 | 197 | 229 | 246 | 240 | 214 | 181 | 148 | 125 | 118 |     |
| TUE | 4  | ●   | 133 | 171 | 221 | 273 | 318 | 347 | 350 | 323 | 274 | 214 | 154 | 105 | 78  | 81  | 111 | 155 | 203 | 244 | 269 | 268 | 241 | 199 | 157 | 124 |
| WED | 5  |     | 109 | 119 | 155 | 209 | 267 | 317 | 350 | 356 | 327 | 271 | 204 | 139 | 89  | 63  | 71  | 110 | 165 | 221 | 267 | 294 | 291 | 256 | 206 | 155 |
| THU | 6  |     | 117 | 99  | 109 | 150 | 209 | 271 | 321 | 353 | 354 | 316 | 252 | 182 | 119 | 73  | 55  | 75  | 125 | 188 | 247 | 292 | 316 | 302 | 257 | 199 |
| FRI | 7  |     | 145 | 108 | 93  | 111 | 158 | 221 | 282 | 326 | 351 | 340 | 290 | 221 | 152 | 96  | 60  | 57  | 93  | 153 | 221 | 275 | 315 | 328 | 300 | 244 |
| SAT | 8  |     | 182 | 132 | 101 | 95  | 124 | 178 | 241 | 293 | 328 | 340 | 311 | 253 | 183 | 121 | 76  | 56  | 73  | 124 | 191 | 256 | 303 | 334 | 329 | 285 |
| SUN | 9  |     | 223 | 163 | 120 | 98  | 106 | 145 | 202 | 260 | 300 | 323 | 317 | 273 | 210 | 144 | 93  | 64  | 64  | 101 | 162 | 232 | 288 | 328 | 343 | 317 |
| MON | 10 |     | 262 | 198 | 145 | 113 | 102 | 124 | 170 | 225 | 272 | 299 | 308 | 283 | 230 | 168 | 111 | 76  | 63  | 85  | 137 | 203 | 268 | 315 | 344 | 339 |
| TUE | 11 |     | 296 | 236 | 176 | 134 | 111 | 114 | 146 | 192 | 241 | 274 | 290 | 282 | 242 | 188 | 132 | 90  | 70  | 77  | 118 | 177 | 243 | 298 | 334 | 347 |
| WED | 12 | ●   | 321 | 269 | 210 | 160 | 128 | 117 | 132 | 168 | 210 | 248 | 267 | 271 | 246 | 201 | 151 | 107 | 81  | 78  | 105 | 157 | 217 | 276 | 318 | 343 |
| THU | 13 |     | 335 | 294 | 240 | 188 | 150 | 129 | 129 | 152 | 186 | 221 | 245 | 254 | 244 | 208 | 165 | 124 | 94  | 85  | 98  | 140 | 196 | 252 | 299 | 329 |
| FRI | 14 |     | 338 | 312 | 265 | 215 | 173 | 147 | 135 | 144 | 169 | 198 | 225 | 237 | 236 | 214 | 176 | 140 | 109 | 95  | 99  | 126 | 175 | 228 | 276 | 311 |
| SAT | 15 |     | 329 | 323 | 287 | 241 | 198 | 166 | 149 | 144 | 158 | 180 | 203 | 220 | 224 | 216 | 189 | 156 | 127 | 108 | 105 | 119 | 154 | 201 | 248 | 288 |
| SUN | 16 |     | 312 | 321 | 304 | 267 | 227 | 190 | 166 | 152 | 151 | 163 | 182 | 200 | 211 | 212 | 201 | 177 | 150 | 128 | 117 | 120 | 138 | 173 | 215 | 256 |
| MON | 17 |     | 288 | 307 | 310 | 291 | 259 | 223 | 191 | 168 | 153 | 150 | 159 | 175 | 191 | 201 | 205 | 197 | 179 | 158 | 140 | 131 | 134 | 149 | 178 | 215 |
| TUE | 18 |     | 253 | 282 | 302 | 306 | 291 | 263 | 228 | 195 | 168 | 148 | 140 | 146 | 162 | 180 | 196 | 207 | 206 | 194 | 175 | 157 | 144 | 140 | 148 | 171 |
| WED | 19 |     | 206 | 244 | 277 | 301 | 311 | 301 | 274 | 236 | 195 | 160 | 132 | 121 | 127 | 147 | 174 | 200 | 220 | 227 | 219 | 198 | 172 | 150 | 136 | 137 |
| THU | 20 | ●   | 156 | 192 | 236 | 277 | 308 | 324 | 316 | 286 | 238 | 187 | 142 | 109 | 97  | 107 | 138 | 177 | 215 | 245 | 256 | 248 | 219 | 181 | 148 | 125 |
| FRI | 21 |     | 120 | 139 | 180 | 233 | 283 | 321 | 339 | 330 | 290 | 230 | 169 | 117 | 82  | 73  | 93  | 138 | 192 | 240 | 275 | 289 | 275 | 234 | 183 | 140 |
| SAT | 22 |     | 110 | 103 | 125 | 175 | 237 | 293 | 334 | 349 | 334 | 281 | 209 | 142 | 88  | 57  | 56  | 90  | 151 | 216 | 272 | 308 | 320 | 297 | 240 | 179 |
| SUN | 23 |     | 128 | 95  | 90  | 117 | 177 | 245 | 304 | 341 | 350 | 325 | 259 | 180 | 111 | 59  | 37  | 48  | 99  | 174 | 248 | 306 | 341 | 348 | 309 | 240 |
| MON | 24 |     | 172 | 115 | 83  | 82  | 116 | 182 | 253 | 309 | 339 | 342 | 304 | 228 | 148 | 81  | 36  | 25  | 52  | 119 | 203 | 282 | 339 | 372 | 369 | 314 |
| TUE | 25 |     | 236 | 163 | 106 | 76  | 78  | 119 | 187 | 256 | 306 | 329 | 326 | 275 | 196 | 119 | 56  | 22  | 22  | 65  | 144 | 233 | 312 | 367 | 397 | 380 |
| WED | 26 | ○   | 313 | 232 | 157 | 102 | 73  | 78  | 123 | 188 | 252 | 293 | 313 | 302 | 245 | 169 | 97  | 43  | 18  | 30  | 86  | 169 | 259 | 335 | 386 | 410 |
| THU | 27 |     | 380 | 308 | 227 | 155 | 102 | 74  | 82  | 125 | 185 | 241 | 276 | 293 | 276 | 219 | 150 | 85  | 41  | 25  | 47  | 109 | 192 | 278 | 347 | 395 |
| FRI | 28 |     | 410 | 371 | 301 | 224 | 158 | 107 | 79  | 87  | 125 | 179 | 226 | 256 | 272 | 252 | 202 | 140 | 85  | 51  | 42  | 70  | 131 | 209 | 288 | 349 |
| SAT | 29 |     | 392 | 397 | 358 | 293 | 223 | 163 | 114 | 87  | 92  | 123 | 170 | 209 | 238 | 252 | 235 | 193 | 140 | 95  | 69  | 65  | 93  | 147 | 219 | 287 |
| SUN | 30 |     | 341 | 377 | 378 | 344 | 286 | 224 | 169 | 121 | 93  | 93  | 120 | 160 | 195 | 224 | 239 | 229 | 195 | 150 | 114 | 91  | 88  | 111 | 157 | 220 |
| MON | 31 |     | 278 | 327 | 358 | 360 | 333 | 282 | 227 | 173 | 125 | 95  | 90  | 114 | 149 | 185 | 217 | 236 | 234 | 207 | 169 | 136 | 113 | 107 | 121 | 159 |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**JUNE – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| TUE | 1  | 212 | 264 | 310 | 340 | 347 | 325 | 281 | 228 | 173 | 124 | 90  | 84  | 105 | 141 | 181 | 218 | 243 | 248 | 226 | 193 | 158 | 131 | 118 | 124 |     |
| WED | 2  | ●   | 154 | 200 | 250 | 295 | 327 | 338 | 320 | 279 | 224 | 166 | 115 | 81  | 75  | 98  | 139 | 185 | 228 | 259 | 267 | 249 | 214 | 175 | 142 | 122 |
| THU | 3  |     | 122 | 147 | 190 | 240 | 286 | 319 | 331 | 315 | 271 | 212 | 152 | 101 | 70  | 68  | 97  | 145 | 199 | 246 | 280 | 289 | 269 | 229 | 183 | 145 |
| FRI | 4  |     | 121 | 118 | 141 | 185 | 237 | 283 | 314 | 324 | 303 | 254 | 192 | 132 | 85  | 61  | 67  | 106 | 162 | 221 | 270 | 302 | 308 | 280 | 232 | 182 |
| SAT | 5  |     | 141 | 117 | 115 | 142 | 189 | 241 | 284 | 310 | 313 | 283 | 227 | 164 | 108 | 70  | 56  | 77  | 126 | 189 | 250 | 296 | 324 | 318 | 280 | 225 |
| SUN | 6  |     | 172 | 133 | 112 | 116 | 150 | 198 | 248 | 284 | 302 | 295 | 254 | 195 | 134 | 86  | 59  | 60  | 97  | 155 | 222 | 280 | 321 | 339 | 318 | 269 |
| MON | 7  |     | 210 | 158 | 124 | 109 | 123 | 162 | 211 | 255 | 281 | 290 | 268 | 220 | 161 | 106 | 70  | 57  | 76  | 126 | 191 | 258 | 309 | 342 | 343 | 306 |
| TUE | 8  |     | 250 | 190 | 144 | 116 | 111 | 135 | 176 | 223 | 257 | 274 | 270 | 236 | 185 | 129 | 85  | 63  | 66  | 103 | 162 | 229 | 290 | 333 | 353 | 333 |
| WED | 9  |     | 284 | 225 | 170 | 132 | 112 | 119 | 149 | 191 | 231 | 254 | 261 | 243 | 202 | 153 | 104 | 73  | 65  | 87  | 138 | 199 | 265 | 316 | 348 | 349 |
| THU | 10 | ●   | 312 | 257 | 199 | 153 | 124 | 115 | 133 | 165 | 204 | 234 | 247 | 243 | 213 | 170 | 125 | 87  | 71  | 79  | 117 | 174 | 237 | 294 | 334 | 352 |
| FRI | 11 |     | 332 | 284 | 228 | 176 | 141 | 121 | 124 | 148 | 180 | 214 | 233 | 238 | 221 | 184 | 143 | 104 | 79  | 77  | 101 | 151 | 210 | 268 | 315 | 343 |
| SAT | 12 |     | 344 | 308 | 255 | 202 | 159 | 133 | 123 | 135 | 162 | 193 | 219 | 230 | 226 | 199 | 161 | 123 | 92  | 81  | 90  | 127 | 182 | 239 | 291 | 327 |
| SUN | 13 |     | 343 | 327 | 283 | 231 | 183 | 149 | 130 | 128 | 146 | 172 | 201 | 219 | 225 | 214 | 182 | 145 | 112 | 90  | 89  | 108 | 152 | 206 | 261 | 304 |
| MON | 14 |     | 331 | 336 | 308 | 262 | 213 | 171 | 144 | 128 | 132 | 151 | 178 | 203 | 217 | 220 | 204 | 173 | 139 | 111 | 97  | 100 | 125 | 171 | 223 | 273 |
| TUE | 15 |     | 309 | 329 | 325 | 294 | 249 | 203 | 165 | 139 | 126 | 131 | 151 | 178 | 201 | 215 | 218 | 203 | 175 | 143 | 118 | 107 | 113 | 138 | 181 | 230 |
| WED | 16 |     | 276 | 308 | 324 | 317 | 287 | 244 | 198 | 160 | 132 | 118 | 123 | 144 | 173 | 199 | 217 | 223 | 212 | 187 | 156 | 132 | 119 | 122 | 143 | 181 |
| THU | 17 |     | 229 | 272 | 304 | 320 | 315 | 287 | 243 | 194 | 152 | 120 | 104 | 109 | 133 | 167 | 199 | 225 | 237 | 231 | 208 | 176 | 147 | 129 | 125 | 140 |
| FRI | 18 | ●   | 174 | 221 | 266 | 300 | 319 | 317 | 289 | 241 | 187 | 138 | 103 | 85  | 91  | 121 | 164 | 207 | 241 | 261 | 260 | 236 | 198 | 161 | 134 | 122 |
| SAT | 19 |     | 131 | 162 | 209 | 258 | 297 | 319 | 318 | 289 | 236 | 174 | 121 | 81  | 64  | 75  | 113 | 169 | 222 | 265 | 291 | 292 | 265 | 218 | 171 | 134 |
| SUN | 20 |     | 114 | 118 | 147 | 198 | 251 | 294 | 318 | 316 | 284 | 222 | 155 | 99  | 59  | 46  | 64  | 115 | 181 | 244 | 294 | 324 | 325 | 289 | 231 | 175 |
| MON | 21 |     | 129 | 104 | 104 | 134 | 189 | 245 | 290 | 313 | 309 | 271 | 203 | 134 | 77  | 40  | 34  | 62  | 125 | 201 | 272 | 326 | 357 | 353 | 305 | 238 |
| TUE | 22 |     | 173 | 121 | 92  | 91  | 125 | 182 | 241 | 284 | 304 | 298 | 252 | 181 | 112 | 56  | 26  | 28  | 69  | 143 | 226 | 302 | 356 | 386 | 372 | 312 |
| WED | 23 |     | 238 | 167 | 112 | 81  | 81  | 120 | 178 | 237 | 276 | 294 | 283 | 231 | 160 | 93  | 40  | 18  | 29  | 83  | 163 | 251 | 328 | 382 | 407 | 380 |
| THU | 24 |     | 311 | 232 | 159 | 103 | 72  | 76  | 117 | 175 | 232 | 267 | 284 | 268 | 212 | 144 | 78  | 33  | 16  | 38  | 100 | 184 | 275 | 348 | 400 | 416 |
| FRI | 25 | ○   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**JULY – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| THU | 1  | 188 | 233 | 274 | 304 | 315 | 303 | 267 | 219 | 169 | 123 | 92  | 82  | 99  | 135 | 178 | 218 | 247 | 260 | 249 | 220 | 185 | 156 | 137 | 134 |     |
| FRI | 2  | ●   | 150 | 183 | 222 | 259 | 287 | 298 | 288 | 255 | 208 | 157 | 114 | 84  | 78  | 98  | 138 | 185 | 229 | 262 | 277 | 268 | 240 | 203 | 169 | 145 |
| SAT | 3  |     | 136 | 146 | 174 | 211 | 247 | 274 | 285 | 276 | 242 | 194 | 143 | 101 | 76  | 74  | 101 | 146 | 198 | 247 | 282 | 298 | 287 | 254 | 211 | 172 |
| SUN | 4  |     | 144 | 130 | 138 | 166 | 203 | 241 | 267 | 276 | 263 | 226 | 176 | 125 | 86  | 68  | 75  | 110 | 162 | 220 | 271 | 306 | 318 | 299 | 258 | 209 |
| MON | 5  |     | 165 | 135 | 121 | 131 | 162 | 202 | 240 | 262 | 268 | 248 | 206 | 154 | 105 | 74  | 63  | 82  | 128 | 187 | 248 | 297 | 329 | 331 | 300 | 250 |
| TUE | 6  |     | 196 | 152 | 122 | 113 | 130 | 165 | 208 | 241 | 258 | 257 | 228 | 183 | 130 | 87  | 65  | 66  | 99  | 153 | 217 | 279 | 323 | 345 | 332 | 289 |
| WED | 7  |     | 232 | 176 | 136 | 111 | 110 | 136 | 175 | 216 | 242 | 253 | 241 | 204 | 157 | 107 | 73  | 62  | 78  | 124 | 184 | 251 | 307 | 343 | 351 | 320 |
| THU | 8  |     | 267 | 207 | 156 | 121 | 105 | 116 | 147 | 189 | 224 | 242 | 244 | 220 | 178 | 130 | 87  | 65  | 67  | 100 | 155 | 219 | 284 | 330 | 355 | 343 |
| FRI | 9  |     | 297 | 239 | 180 | 138 | 110 | 106 | 129 | 164 | 205 | 231 | 241 | 231 | 196 | 151 | 105 | 72  | 62  | 79  | 127 | 188 | 255 | 311 | 348 | 356 |
| SAT | 10 | ●   | 325 | 269 | 209 | 157 | 123 | 105 | 115 | 145 | 183 | 218 | 235 | 237 | 214 | 172 | 126 | 85  | 64  | 66  | 99  | 157 | 222 | 286 | 332 | 357 |
| SUN | 11 |     | 347 | 300 | 240 | 182 | 139 | 112 | 106 | 127 | 161 | 200 | 227 | 238 | 230 | 196 | 151 | 106 | 73  | 63  | 78  | 124 | 187 | 253 | 309 | 345 |
| MON | 12 |     | 357 | 329 | 274 | 214 | 160 | 125 | 106 | 111 | 139 | 176 | 212 | 232 | 238 | 221 | 181 | 135 | 94  | 70  | 69  | 96  | 150 | 214 | 277 | 323 |
| TUE | 13 |     | 350 | 347 | 307 | 249 | 191 | 145 | 115 | 103 | 117 | 148 | 187 | 218 | 235 | 237 | 212 | 171 | 127 | 92  | 76  | 83  | 118 | 173 | 236 | 292 |
| WED | 14 |     | 328 | 346 | 330 | 285 | 228 | 173 | 132 | 107 | 102 | 121 | 155 | 193 | 221 | 237 | 235 | 209 | 169 | 128 | 99  | 89  | 101 | 137 | 191 | 249 |
| THU | 15 |     | 296 | 325 | 334 | 312 | 266 | 210 | 160 | 122 | 100 | 99  | 120 | 157 | 195 | 223 | 241 | 239 | 215 | 178 | 140 | 115 | 106 | 117 | 150 | 198 |
| FRI | 16 |     | 251 | 291 | 315 | 319 | 296 | 252 | 198 | 149 | 112 | 91  | 92  | 115 | 154 | 195 | 227 | 249 | 251 | 232 | 198 | 162 | 135 | 122 | 127 | 152 |
| SAT | 17 | ●   | 194 | 240 | 277 | 300 | 304 | 284 | 243 | 190 | 140 | 102 | 81  | 81  | 106 | 148 | 195 | 235 | 263 | 273 | 260 | 228 | 188 | 155 | 134 | 129 |
| SUN | 18 |     | 144 | 178 | 220 | 258 | 283 | 292 | 277 | 239 | 185 | 133 | 92  | 68  | 68  | 94  | 142 | 198 | 247 | 284 | 302 | 294 | 260 | 213 | 171 | 137 |
| MON | 19 |     | 121 | 127 | 154 | 197 | 238 | 269 | 283 | 273 | 236 | 180 | 125 | 80  | 54  | 55  | 85  | 141 | 205 | 265 | 311 | 335 | 329 | 288 | 232 | 178 |
| TUE | 20 |     | 133 | 108 | 106 | 132 | 177 | 223 | 260 | 277 | 270 | 231 | 173 | 115 | 67  | 41  | 45  | 81  | 146 | 219 | 287 | 339 | 367 | 356 | 306 | 241 |
| WED | 21 |     | 176 | 123 | 92  | 86  | 115 | 164 | 216 | 255 | 274 | 267 | 224 | 163 | 102 | 52  | 30  | 38  | 84  | 157 | 238 | 312 | 366 | 392 | 372 | 312 |
| THU | 22 |     | 238 | 166 | 110 | 75  | 73  | 106 | 160 | 216 | 254 | 273 | 262 | 214 | 150 | 87  | 40  | 22  | 39  | 94  | 173 | 261 | 335 | 388 | 407 | 374 |
| FRI | 23 |     | 305 | 226 | 152 | 96  | 62  | 67  | 107 | 166 | 221 | 256 | 274 | 256 | 203 | 136 | 73  | 32  | 19  | 46  | 110 | 195 | 284 | 354 | 402 | 410 |
| SAT | 24 | ○   | 364 | 289 | 208 | 138 | 83  | 56  | 70  | 115 | 177 | 226 | 259 | 273 | 247 | 190 | 122 | 64  | 29  | 24  | 62  | 131 | 218 | 302 | 365 | 406 |
| SUN | 25 |     | 398 | 344 | 266 | 189 | 124 | 74  | 58  | 80  | 130 | 188 | 230 | 262 | 269 | 236 | 176 | 111 | 62  | 34  | 40  | 84  | 156 | 241 | 314 | 369 |
| MON | 26 |     | 396 | 374 | 315 | 239 | 170 | 112 | 72  | 66  | 94  | 146 | 198 | 235 | 263 | 261 | 224 | 164 | 107 | 67  | 49  | 64  | 112 | 183 | 259 | 318 |
| TUE | 27 |     | 362 | 373 | 342 | 281 | 212 | 153 | 104 | 75  | 79  | 111 | 162 | 205 | 239 | 260 | 251 | 212 | 157 | 111 | 81  | 73  | 94  | 141 | 206 | 268 |
| WED | 28 |     | 314 | 343 | 341 | 306 | 248 | 189 | 140 | 100 | 83  | 92  | 127 | 173 | 210 | 241 | 255 | 243 | 206 | 160 | 124 | 103 | 102 | 124 | 166 | 220 |
| THU | 29 |     | 267 | 301 | 317 | 306 | 272 | 221 | 173 | 131 | 101 | 90  | 103 | 138 | 178 | 214 | 241 | 251 | 240 | 209 | 173 | 144 | 128 | 129 | 146 | 180 |
| FRI | 30 |     | 221 | 255 | 279 | 287 | 276 | 245 | 203 | 162 | 126 | 102 | 96  | 110 | 143 | 180 | 216 | 242 | 253 | 246 | 222 | 193 | 168 | 151 | 147 | 157 |
| SAT | 31 | ●   | 180 | 209 | 235 | 255 | 261 | 253 | 229 | 194 | 157 | 124 | 102 | 97  | 112 | 144 | 182 | 219 | 248 | 263 | 261 | 242 | 215 | 187 | 165 | 154 |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**AUGUST – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00 | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SUN | 1  |    | 154 | 168 | 191 | 215 | 235 | 244 | 240 | 221 | 190 | 154 | 120 | 99  | 94  | 110 | 144 | 186 | 228 | 262 | 281 | 282 | 263 | 231 | 196 | 167 |
| MON | 2  |    | 148 | 141 | 151 | 173 | 200 | 224 | 237 | 236 | 218 | 185 | 147 | 112 | 91  | 89  | 109 | 149 | 196 | 245 | 283 | 304 | 302 | 276 | 236 | 192 |
| TUE | 3  |    | 157 | 132 | 124 | 136 | 163 | 196 | 223 | 237 | 236 | 214 | 177 | 134 | 99  | 81  | 84  | 113 | 161 | 216 | 269 | 307 | 325 | 313 | 276 | 227 |
| WED | 4  |    | 177 | 139 | 114 | 110 | 131 | 165 | 203 | 229 | 241 | 234 | 204 | 161 | 115 | 83  | 72  | 85  | 126 | 181 | 243 | 296 | 331 | 339 | 312 | 264 |
| THU | 5  |    | 206 | 156 | 119 | 99  | 107 | 137 | 178 | 216 | 237 | 243 | 225 | 186 | 138 | 94  | 69  | 67  | 95  | 147 | 210 | 275 | 323 | 349 | 341 | 298 |
| FRI | 6  |    | 240 | 180 | 133 | 102 | 94  | 115 | 153 | 198 | 230 | 245 | 240 | 208 | 161 | 111 | 73  | 58  | 70  | 115 | 176 | 245 | 305 | 345 | 358 | 330 |
| SAT | 7  |    | 274 | 210 | 153 | 113 | 91  | 99  | 132 | 177 | 219 | 242 | 249 | 229 | 185 | 133 | 85  | 57  | 54  | 83  | 141 | 211 | 280 | 332 | 362 | 356 |
| SUN | 8  | ●  | 309 | 244 | 178 | 129 | 97  | 88  | 112 | 154 | 202 | 236 | 252 | 248 | 213 | 160 | 106 | 65  | 48  | 58  | 104 | 173 | 246 | 310 | 352 | 369 |
| MON | 9  |    | 342 | 281 | 211 | 150 | 108 | 86  | 92  | 128 | 176 | 222 | 248 | 258 | 242 | 195 | 138 | 86  | 54  | 48  | 73  | 132 | 205 | 277 | 331 | 363 |
| TUE | 10 |    | 363 | 317 | 249 | 181 | 126 | 93  | 81  | 102 | 145 | 196 | 236 | 256 | 260 | 231 | 178 | 122 | 76  | 54  | 58  | 96  | 161 | 234 | 299 | 341 |
| WED | 11 |    | 362 | 343 | 287 | 218 | 154 | 108 | 83  | 83  | 115 | 162 | 211 | 244 | 262 | 258 | 220 | 167 | 115 | 78  | 65  | 78  | 124 | 188 | 256 | 309 |
| THU | 12 |    | 339 | 346 | 314 | 254 | 189 | 133 | 95  | 79  | 91  | 127 | 176 | 221 | 250 | 265 | 254 | 214 | 165 | 120 | 91  | 84  | 103 | 148 | 207 | 265 |
| FRI | 13 |    | 304 | 325 | 320 | 282 | 225 | 166 | 118 | 89  | 80  | 98  | 136 | 184 | 225 | 254 | 267 | 254 | 219 | 175 | 136 | 112 | 107 | 124 | 162 | 211 |
| SAT | 14 |    | 258 | 287 | 301 | 291 | 255 | 204 | 152 | 112 | 87  | 82  | 101 | 138 | 185 | 226 | 257 | 272 | 264 | 236 | 197 | 162 | 137 | 127 | 135 | 161 |
| SUN | 15 |    | 199 | 236 | 262 | 274 | 267 | 240 | 196 | 150 | 112 | 87  | 81  | 96  | 132 | 179 | 224 | 260 | 282 | 285 | 265 | 229 | 191 | 159 | 138 | 133 |
| MON | 16 | ●  | 145 | 173 | 206 | 233 | 251 | 254 | 237 | 200 | 156 | 116 | 87  | 75  | 85  | 119 | 169 | 221 | 267 | 301 | 314 | 300 | 264 | 218 | 174 | 138 |
| TUE | 17 |    | 119 | 119 | 140 | 175 | 210 | 238 | 251 | 243 | 211 | 164 | 119 | 82  | 64  | 70  | 104 | 160 | 222 | 280 | 324 | 345 | 334 | 291 | 235 | 177 |
| WED | 18 |    | 129 | 98  | 90  | 112 | 153 | 199 | 236 | 256 | 253 | 220 | 169 | 116 | 72  | 50  | 56  | 94  | 157 | 230 | 298 | 349 | 374 | 358 | 306 | 238 |
| THU | 19 |    | 170 | 113 | 76  | 68  | 96  | 145 | 200 | 241 | 265 | 262 | 223 | 166 | 105 | 58  | 38  | 47  | 93  | 165 | 247 | 319 | 371 | 393 | 366 | 304 |
| FRI | 20 |    | 228 | 154 | 95  | 59  | 58  | 95  | 153 | 212 | 252 | 275 | 264 | 217 | 153 | 89  | 45  | 28  | 47  | 104 | 183 | 270 | 340 | 388 | 399 | 358 |
| SAT | 21 |    | 287 | 206 | 133 | 78  | 49  | 62  | 108 | 173 | 227 | 264 | 282 | 259 | 203 | 133 | 72  | 35  | 27  | 59  | 124 | 210 | 294 | 356 | 396 | 390 |
| SUN | 22 | ○  | 336 | 258 | 179 | 113 | 64  | 50  | 76  | 132 | 196 | 242 | 276 | 282 | 247 | 183 | 114 | 61  | 32  | 36  | 81  | 153 | 239 | 312 | 365 | 391 |
| MON | 23 |    | 366 | 302 | 224 | 152 | 94  | 58  | 61  | 98  | 159 | 216 | 255 | 283 | 275 | 229 | 163 | 100 | 58  | 39  | 58  | 111 | 186 | 264 | 323 | 364 |
| TUE | 24 |    | 371 | 330 | 262 | 189 | 128 | 82  | 62  | 79  | 125 | 185 | 231 | 266 | 282 | 261 | 210 | 147 | 96  | 65  | 59  | 89  | 145 | 216 | 280 | 324 |
| WED | 25 |    | 349 | 336 | 287 | 221 | 158 | 1   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**SEPTEMBER – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WED | 1  | 143 | 124 | 122 | 137 | 162 | 190 | 211 | 220 | 215 | 194 | 163 | 129 | 106 | 100 | 114 | 149 | 194 | 243 | 285 | 310 | 312 | 288 | 246 | 196 |     |
| THU | 2  | 152 | 120 | 103 | 109 | 135 | 171 | 206 | 227 | 234 | 221 | 188 | 147 | 109 | 87  | 87  | 112 | 158 | 213 | 270 | 312 | 333 | 323 | 283 | 229 |     |
| FRI | 3  | 172 | 127 | 97  | 90  | 110 | 148 | 193 | 227 | 245 | 243 | 214 | 170 | 122 | 85  | 69  | 80  | 120 | 179 | 243 | 301 | 338 | 348 | 320 | 265 |     |
| SAT | 4  | 201 | 144 | 103 | 81  | 90  | 125 | 174 | 220 | 247 | 258 | 241 | 197 | 143 | 93  | 62  | 57  | 84  | 141 | 210 | 279 | 330 | 358 | 352 | 303 |     |
| SUN | 5  | 236 | 169 | 116 | 83  | 75  | 102 | 150 | 204 | 244 | 265 | 264 | 228 | 172 | 113 | 67  | 47  | 55  | 100 | 171 | 246 | 312 | 353 | 369 | 340 |     |
| MON | 6  | 274 | 201 | 136 | 91  | 68  | 78  | 122 | 179 | 233 | 264 | 278 | 261 | 209 | 146 | 87  | 50  | 41  | 65  | 126 | 204 | 280 | 336 | 367 | 366 |     |
| TUE | 7  | ●   | 315 | 240 | 165 | 106 | 71  | 62  | 91  | 146 | 207 | 255 | 280 | 286 | 252 | 190 | 125 | 71  | 44  | 46  | 85  | 156 | 235 | 305 | 348 | 368 |
| WED | 8  |     | 346 | 280 | 203 | 133 | 83  | 59  | 66  | 109 | 170 | 231 | 270 | 292 | 286 | 240 | 174 | 113 | 68  | 50  | 63  | 112 | 184 | 258 | 315 | 346 |
| THU | 9  |     | 352 | 312 | 241 | 168 | 107 | 69  | 56  | 79  | 131 | 193 | 248 | 281 | 298 | 281 | 228 | 166 | 112 | 77  | 67  | 87  | 139 | 205 | 269 | 309 |
| FRI | 10 |     | 330 | 321 | 272 | 204 | 139 | 91  | 64  | 64  | 97  | 151 | 211 | 258 | 287 | 299 | 274 | 224 | 168 | 123 | 96  | 90  | 113 | 159 | 214 | 263 |
| SAT | 11 |     | 291 | 302 | 283 | 234 | 176 | 122 | 86  | 69  | 78  | 114 | 165 | 220 | 261 | 289 | 296 | 272 | 229 | 182 | 144 | 120 | 113 | 130 | 164 | 207 |
| SUN | 12 |     | 242 | 262 | 268 | 249 | 210 | 162 | 120 | 91  | 80  | 91  | 122 | 169 | 218 | 258 | 287 | 295 | 280 | 247 | 207 | 171 | 143 | 129 | 133 | 153 |
| MON | 13 |     | 183 | 210 | 230 | 238 | 229 | 204 | 167 | 131 | 104 | 91  | 95  | 119 | 159 | 207 | 250 | 284 | 302 | 300 | 276 | 238 | 198 | 161 | 133 | 122 |
| TUE | 14 | ○   | 128 | 150 | 177 | 203 | 221 | 227 | 214 | 185 | 150 | 118 | 95  | 89  | 104 | 140 | 190 | 241 | 286 | 318 | 327 | 309 | 269 | 219 | 168 | 125 |
| WED | 15 |     | 99  | 96  | 116 | 150 | 188 | 221 | 239 | 236 | 209 | 168 | 126 | 91  | 75  | 84  | 119 | 175 | 237 | 295 | 338 | 355 | 337 | 289 | 227 | 163 |
| THU | 16 |     | 109 | 74  | 67  | 92  | 138 | 190 | 232 | 259 | 259 | 227 | 177 | 123 | 79  | 58  | 65  | 106 | 170 | 244 | 310 | 358 | 377 | 352 | 294 | 220 |
| FRI | 17 |     | 147 | 89  | 52  | 51  | 87  | 145 | 205 | 250 | 279 | 274 | 233 | 172 | 110 | 64  | 44  | 56  | 106 | 180 | 261 | 328 | 374 | 385 | 348 | 279 |
| SAT | 18 |     | 199 | 126 | 70  | 40  | 52  | 100 | 167 | 227 | 270 | 294 | 276 | 223 | 155 | 92  | 51  | 38  | 62  | 122 | 203 | 283 | 343 | 382 | 377 | 326 |
| SUN | 19 |     | 249 | 170 | 103 | 55  | 41  | 69  | 128 | 197 | 250 | 288 | 299 | 266 | 202 | 132 | 76  | 43  | 43  | 82  | 150 | 233 | 303 | 353 | 377 | 353 |
| MON | 20 |     | 289 | 211 | 138 | 81  | 48  | 55  | 98  | 164 | 227 | 271 | 300 | 293 | 246 | 177 | 112 | 66  | 46  | 61  | 112 | 184 | 261 | 316 | 354 | 358 |
| TUE | 21 | ○   | 315 | 245 | 170 | 109 | 66  | 52  | 78  | 132 | 199 | 251 | 287 | 304 | 279 | 222 | 154 | 100 | 66  | 60  | 90  | 146 | 217 | 279 | 320 | 342 |
| WED | 22 |     | 323 | 268 | 199 | 135 | 88  | 61  | 68  | 108 | 168 | 228 | 269 | 297 | 297 | 258 | 198 | 139 | 98  | 77  | 84  | 123 | 179 | 240 | 284 | 311 |
| THU | 23 |     | 314 | 278 | 221 | 158 | 109 | 78  | 70  | 94  | 142 | 200 | 248 | 280 | 297 | 280 | 236 | 181 | 134 | 106 | 97  | 115 | 155 | 205 | 250 | 276 |
| FRI | 24 |     | 288 | 273 | 231 | 179 | 129 | 97  | 82  | 91  | 125 | 173 | 224 | 260 | 284 | 287 | 260 | 217 | 172 | 139 | 122 | 122 | 144 | 178 | 216 | 244 |
| SAT | 25 |     | 257 | 255 | 230 | 191 | 149 | 116 | 99  | 97  | 118 | 154 | 197 | 237 | 264 | 279 | 271 | 243 | 207 | 174 | 152 | 142 | 146 | 164 | 188 | 212 |
| SUN | 26 |     | 225 | 230 | 219 | 195 | 165 | 137 | 119 | 112 | 119 | 142 | 174 | 209 | 239 | 260 | 268 | 257 | 235 | 208 | 185 | 169 | 159 | 161 | 170 | 183 |
| MON | 27 |     | 195 | 201 | 201 | 192 | 176 | 158 | 142 | 133 | 130 | 138 | 156 | 181 | 209 | 233 | 251 | 259 | 253 | 239 | 220 | 201 | 183 | 169 | 162 | 161 |
| TUE | 28 |     | 165 | 172 | 178 | 182 | 181 | 175 | 167 | 157 | 149 | 143 | 145 | 157 | 176 | 200 | 225 | 246 | 260 | 262 | 254 | 237 | 214 | 188 | 165 | 149 |
| WED | 29 | ●   | 142 | 143 | 152 | 166 | 179 | 188 | 190 | 184 | 173 | 158 | 144 | 138 | 145 | 162 | 190 | 221 | 252 | 273 | 281 | 274 | 250 | 217 | 181 | 149 |
| THU | 30 |     | 127 | 118 | 125 | 144 | 169 | 193 | 208 | 211 | 201 | 180 | 154 | 130 | 120 | 126 | 150 | 187 | 230 | 270 | 297 | 305 | 290 | 254 | 208 | 161 |
|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**OCTOBER – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FRI | 1  | 124 | 102 | 99  | 119 | 151 | 189 | 218 | 233 | 231 | 208 | 173 | 136 | 107 | 98  | 110 | 147 | 198 | 251 | 297 | 323 | 325 | 295 | 243 | 185 |     |
| SAT | 2  | 133 | 97  | 81  | 92  | 128 | 173 | 218 | 246 | 256 | 240 | 201 | 154 | 109 | 82  | 79  | 105 | 158 | 221 | 281 | 326 | 346 | 333 | 283 | 218 |     |
| SUN | 3  | 154 | 103 | 73  | 69  | 100 | 151 | 205 | 248 | 271 | 271 | 236 | 182 | 126 | 82  | 61  | 70  | 114 | 182 | 252 | 313 | 349 | 358 | 325 | 257 |     |
| MON | 4  | 184 | 120 | 76  | 56  | 71  | 121 | 182 | 239 | 276 | 292 | 275 | 222 | 157 | 99  | 60  | 50  | 74  | 135 | 212 | 285 | 337 | 363 | 355 | 299 |     |
| TUE | 5  | 220 | 146 | 87  | 53  | 49  | 85  | 149 | 217 | 270 | 300 | 306 | 270 | 203 | 134 | 78  | 49  | 50  | 89  | 162 | 241 | 309 | 349 | 363 | 335 |     |
| WED | 6  | ●   | 263 | 181 | 109 | 60  | 39  | 54  | 108 | 181 | 249 | 295 | 319 | 313 | 260 | 186 | 118 | 69  | 48  | 60  | 111 | 187 | 263 | 318 | 347 | 348 |
| THU | 7  |     | 301 | 222 | 143 | 80  | 43  | 36  | 69  | 136 | 211 | 274 | 314 | 333 | 312 | 248 | 176 | 113 | 71  | 58  | 78  | 134 | 205 | 270 | 312 | 331 |
| FRI | 8  |     | 318 | 259 | 183 | 114 | 62  | 38  | 46  | 93  | 163 | 235 | 291 | 326 | 338 | 304 | 240 | 173 | 118 | 84  | 75  | 99  | 150 | 211 | 263 | 292 |
| SAT | 9  |     | 303 | 279 | 220 | 153 | 96  | 58  | 46  | 66  | 118 | 185 | 251 | 299 | 330 | 334 | 296 | 238 | 179 | 133 | 103 | 95  | 116 | 156 | 205 | 243 |
| SUN | 10 |     | 263 | 268 | 241 | 192 | 138 | 93  | 67  | 63  | 89  | 137 | 198 | 256 | 298 | 326 | 325 | 294 | 245 | 195 | 154 | 124 | 112 | 122 | 150 | 186 |
| MON | 11 |     | 214 | 232 | 235 | 216 | 181 | 139 | 105 | 86  | 84  | 105 | 145 | 197 | 248 | 289 | 317 | 321 | 300 | 261 | 217 | 176 | 141 | 119 | 116 | 131 |
| TUE | 12 |     | 158 | 183 | 204 | 215 | 211 | 189 | 157 | 128 | 107 | 99  | 109 | 138 | 183 | 231 | 275 | 309 | 324 | 316 | 285 | 242 | 195 | 149 | 114 | 98  |
| WED | 13 | ●   | 104 | 127 | 157 | 188 | 213 | 224 | 212 | 185 | 153 | 123 | 103 | 100 | 120 | 160 | 211 | 263 | 307 | 335 | 337 | 310 | 262 | 205 | 146 | 99  |
| THU | 14 |     | 73  | 75  | 103 | 144 | 189 | 227 | 248 | 243 | 214 | 172 | 129 | 97  | 84  | 97  | 138 | 196 | 259 | 314 | 350 | 357 | 327 | 270 | 201 | 133 |
| FRI | 15 |     | 79  | 50  | 55  | 92  | 147 | 204 | 250 | 276 | 270 | 232 | 179 | 125 | 84  | 67  | 80  | 127 | 194 | 265 | 324 | 363 | 367 | 328 | 261 | 184 |
| SAT | 16 |     | 113 | 60  | 35  | 51  | 100 | 166 | 228 | 275 | 300 | 285 | 235 | 172 | 112 | 71  | 56  | 77  | 132 | 206 | 279 | 335 | 368 | 361 | 310 | 236 |
| SUN | 17 |     | 157 | 91  | 45  | 33  | 64  | 125 | 197 | 255 | 298 | 313 | 283 | 223 | 155 | 98  | 63  | 57  | 90  | 152 | 229 | 295 | 341 | 363 | 338 | 276 |
| MON | 18 |     | 199 | 126 | 70  | 38  | 46  | 93  | 162 | 231 | 281 | 315 | 313 | 268 | 201 | 134 | 86  | 62  | 70  | 115 | 182 | 253 | 306 | 340 | 343 | 300 |
| TUE | 19 |     | 231 | 157 | 96  | 54  | 43  | 72  | 131 | 203 | 262 | 304 | 324 | 301 | 244 | 176 | 118 | 81  | 70  | 94  | 146 | 212 | 271 | 308 | 328 | 309 |
| WED | 20 |     | 254 | 184 | 120 | 73  | 49  | 61  | 107 | 173 | 240 | 287 | 320 | 321 | 280 | 219 | 155 | 109 | 84  | 87  | 122 | 176 | 235 | 277 | 301 | 302 |
| THU | 21 | ○   | 265 | 206 | 143 | 92  | 63  | 58  | 90  | 146 | 212 | 268 | 306 | 325 | 305 | 256 | 195 | 142 | 109 | 95  | 111 | 150 | 200 | 245 | 271 | 282 |
| FRI | 22 |     | 265 | 219 | 164 | 112 | 79  | 66  | 82  | 127 | 185 | 244 | 287 | 315 | 316 | 282 | 231 | 177 | 138 | 116 | 113 | 136 | 173 | 213 | 242 | 255 |
| SAT | 23 |     | 252 | 222 | 177 | 132 | 96  | 80  | 84  | 116 | 165 | 219 | 266 | 297 | 312 | 297 | 256 | 210 | 167 | 141 | 128 | 134 | 157 | 187 | 215 | 229 |
| SUN | 24 |     | 232 | 217 | 184 | 147 | 114 | 96  | 94  | 112 | 150 | 196 | 242 | 276 | 297 | 299 | 273 | 236 | 197 | 167 | 149 | 142 | 151 | 169 | 190 | 206 |
| MON | 25 |     | 211 | 206 | 186 | 158 | 133 | 113 | 108 | 116 | 140 | 177 | 216 | 251 | 275 | 288 | 281 | 255 |     |     |     |     |     |     |     |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**NOVEMBER – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MON | 1  | 107 | 68  | 56  | 77  | 128 | 187 | 241 | 278 | 292 | 275 | 225 | 168 | 117 | 83  | 76  | 100 | 158 | 227 | 289 | 333 | 350 | 333 | 275 | 198 |     |
| TUE | 2  | 128 | 74  | 45  | 47  | 88  | 155 | 222 | 276 | 308 | 314 | 279 | 214 | 149 | 97  | 68  | 69  | 107 | 177 | 249 | 309 | 343 | 349 | 315 | 240 |     |
| WED | 3  | 160 | 92  | 46  | 30  | 50  | 111 | 188 | 259 | 309 | 336 | 329 | 275 | 200 | 133 | 83  | 61  | 71  | 121 | 195 | 266 | 317 | 340 | 335 | 282 |     |
| THU | 4  | 200 | 122 | 60  | 27  | 26  | 66  | 141 | 223 | 293 | 337 | 358 | 335 | 267 | 189 | 122 | 78  | 61  | 80  | 136 | 208 | 272 | 311 | 327 | 309 |     |
| FRI | 5  | ●   | 244 | 163 | 92  | 40  | 19  | 34  | 91  | 172 | 254 | 318 | 358 | 371 | 333 | 259 | 183 | 120 | 81  | 68  | 91  | 146 | 211 | 265 | 294 | 303 |
| SAT | 6  |     | 274 | 208 | 135 | 73  | 34  | 25  | 52  | 118 | 199 | 277 | 334 | 370 | 373 | 326 | 254 | 184 | 127 | 90  | 79  | 102 | 149 | 205 | 247 | 269 |
| SUN | 7  |     | 274 | 241 | 181 | 119 | 69  | 42  | 41  | 77  | 142 | 217 | 288 | 338 | 371 | 365 | 318 | 254 | 190 | 139 | 103 | 90  | 107 | 145 | 190 | 222 |
| MON | 8  |     | 243 | 245 | 216 | 169 | 118 | 79  | 59  | 64  | 100 | 157 | 226 | 287 | 333 | 361 | 354 | 314 | 258 | 202 | 155 | 116 | 98  | 105 | 133 | 169 |
| TUE | 9  |     | 197 | 219 | 224 | 206 | 171 | 130 | 99  | 82  | 86  | 114 | 161 | 221 | 276 | 320 | 347 | 345 | 316 | 268 | 217 | 168 | 125 | 99  | 95  | 116 |
| WED | 10 |     | 147 | 176 | 203 | 218 | 213 | 187 | 154 | 125 | 104 | 100 | 117 | 154 | 206 | 258 | 304 | 335 | 343 | 323 | 281 | 230 | 176 | 125 | 90  | 80  |
| THU | 11 | ●   | 96  | 127 | 164 | 200 | 227 | 233 | 214 | 183 | 148 | 120 | 105 | 109 | 139 | 187 | 240 | 291 | 329 | 347 | 333 | 293 | 237 | 174 | 116 | 75  |
| FRI | 12 |     | 61  | 78  | 116 | 164 | 211 | 248 | 260 | 244 | 208 | 165 | 126 | 101 | 98  | 122 | 170 | 229 | 286 | 330 | 352 | 340 | 296 | 232 | 162 | 100 |
| SAT | 13 |     | 57  | 46  | 69  | 118 | 177 | 232 | 273 | 288 | 269 | 224 | 172 | 124 | 93  | 87  | 112 | 164 | 227 | 288 | 332 | 353 | 337 | 284 | 214 | 141 |
| SUN | 14 |     | 80  | 43  | 40  | 75  | 134 | 201 | 259 | 299 | 310 | 281 | 227 | 168 | 118 | 87  | 83  | 114 | 170 | 236 | 293 | 333 | 346 | 319 | 258 | 184 |
| MON | 15 |     | 114 | 62  | 35  | 47  | 96  | 164 | 232 | 286 | 321 | 320 | 279 | 218 | 157 | 110 | 84  | 88  | 127 | 186 | 250 | 298 | 328 | 328 | 286 | 220 |
| TUE | 16 |     | 148 | 88  | 48  | 38  | 69  | 129 | 202 | 265 | 312 | 336 | 318 | 266 | 201 | 143 | 103 | 86  | 102 | 147 | 207 | 262 | 298 | 315 | 298 | 245 |
| WED | 17 |     | 178 | 113 | 66  | 43  | 54  | 102 | 169 | 240 | 295 | 333 | 340 | 304 | 244 | 180 | 130 | 100 | 94  | 122 | 170 | 225 | 267 | 291 | 293 | 259 |
| THU | 18 |     | 202 | 138 | 86  | 55  | 50  | 82  | 141 | 211 | 275 | 320 | 345 | 331 | 282 | 220 | 162 | 122 | 101 | 109 | 143 | 190 | 236 | 264 | 276 | 261 |
| FRI | 19 | ○   | 218 | 162 | 107 | 70  | 56  | 72  | 119 | 182 | 249 | 301 | 336 | 343 | 310 | 256 | 196 | 149 | 119 | 109 | 127 | 162 | 205 | 238 | 253 | 253 |
| SAT | 20 |     | 224 | 179 | 129 | 88  | 68  | 71  | 104 | 159 | 221 | 279 | 319 | 340 | 327 | 283 | 229 | 177 | 141 | 121 | 123 | 146 | 178 | 212 | 231 | 237 |
| SUN | 21 |     | 224 | 188 | 148 | 108 | 82  | 77  | 97  | 142 | 196 | 253 | 298 | 326 | 331 | 301 | 255 | 205 | 164 | 140 | 129 | 138 | 161 | 188 | 212 | 221 |
| MON | 22 |     | 218 | 195 | 160 | 126 | 99  | 88  | 96  | 128 | 176 | 227 | 274 | 307 | 323 | 312 | 275 | 231 | 189 | 160 | 142 | 138 | 151 | 170 | 192 | 205 |
| TUE | 23 |     | 208 | 198 | 172 | 144 | 118 | 102 | 102 | 119 | 157 | 202 | 246 | 283 | 306 | 312 | 291 | 255 | 216 | 182 | 160 | 146 | 145 | 156 | 172 | 188 |
| WED | 24 |     | 196 | 197 | 184 | 162 | 140 | 121 | 114 | 120 | 141 | 176 | 216 | 254 | 283 | 300 | 299 | 277 | 245 | 211 | 182 | 162 | 147 | 146 | 153 | 167 |
| THU | 25 |     | 180 | 188 | 190 | 180 | 164 | 147 | 133 | 129 | 134 | 153 | 183 | 218 | 252 | 278 | 293 | 292 | 274 | 245 | 213 | 184 | 159 | 142 | 137 | 143 |
| FRI | 26 |     | 157 | 172 | 186 | 193 | 190 | 179 | 163 | 149 | 141 | 141 | 154 | 179 | 213 | 246 | 274 | 293 | 295 | 280 | 252 | 217 | 181 | 149 | 127 | 119 |
| SAT | 27 | ●   | 127 | 147 | 170 | 193 | 209 | 212 | 202 | 183 | 162 | 146 | 138 | 145 | 168 | 203 | 242 | 276 | 300 | 306 | 292 | 258 | 214 | 169 | 130 | 104 |
| SUN | 28 |     | 97  | 112 | 142 | 178 | 211 | 235 | 240 | 228 | 200 | 169 | 143 | 127 | 131 | 155 | 196 | 243 | 283 | 312 | 319 | 300 | 257 | 200 | 147 | 103 |
| MON | 29 |     | 77  | 77  | 103 | 149 | 197 | 239 | 267 | 272 | 252 | 211 | 169 | 133 | 113 | 116 | 144 | 195 | 249 | 295 | 324 | 328 | 300 | 243 | 176 | 118 |
| TUE | 30 |     | 73  | 54  | 64  | 107 | 167 | 226 | 274 | 302 | 303 | 269 | 215 | 162 | 120 | 98  | 104 | 140 | 199 | 258 | 305 | 330 | 327 | 287 | 217 | 145 |
|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |

**SHUTE HARBOUR**  
**PREDICTED TIDE HEIGHTS (CMS)**  
**DECEMBER – 2021**

LAT 20° 17' S LONG 148° 47' E  
 TIME ZONE –1000

|     |    | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WED | 1  | 86  | 47  | 37  | 62  | 123 | 195 | 261 | 310 | 335 | 327 | 278 | 212 | 152 | 107 | 87  | 96  | 141 | 206 | 266 | 309 | 327 | 315 | 262 | 184 |     |
| THU | 2  | 113 | 57  | 27  | 30  | 73  | 148 | 228 | 297 | 344 | 365 | 343 | 278 | 205 | 141 | 96  | 79  | 93  | 145 | 210 | 269 | 305 | 316 | 295 | 231 |     |
| FRI | 3  | 152 | 84  | 34  | 16  | 33  | 93  | 177 | 262 | 330 | 373 | 388 | 349 | 275 | 198 | 133 | 90  | 74  | 94  | 148 | 211 | 265 | 293 | 300 | 269 |     |
| SAT | 4  | ●   | 201 | 127 | 63  | 23  | 15  | 46  | 117 | 205 | 290 | 354 | 395 | 399 | 348 | 270 | 193 | 129 | 87  | 73  | 96  | 147 | 207 | 253 | 277 | 281 |
| SUN | 5  |     | 244 | 178 | 110 | 54  | 23  | 24  | 65  | 140 | 228 | 309 | 368 | 406 | 398 | 342 | 265 | 191 | 131 | 89  | 75  | 98  | 144 | 198 | 237 | 260 |
| MON | 6  |     | 261 | 224 | 165 | 104 | 57  | 33  | 41  | 87  | 159 | 243 | 317 | 372 | 403 | 388 | 333 | 261 | 192 | 136 | 93  | 80  | 98  | 140 | 187 | 220 |
| TUE | 7  |     | 244 | 244 | 213 | 161 | 108 | 70  | 51  | 62  | 106 | 173 | 250 | 315 | 365 | 390 | 373 | 324 | 258 | 196 | 142 | 99  | 83  | 97  | 134 | 174 |
| WED | 8  |     | 206 | 232 | 235 | 211 | 167 | 122 | 89  | 73  | 83  | 120 | 180 | 248 | 305 | 351 | 372 | 359 | 315 | 257 | 200 | 145 | 102 | 83  | 93  | 126 |
| THU | 9  |     | 163 | 198 | 226 | 235 | 219 | 182 | 143 | 112 | 95  | 100 | 128 | 180 | 239 | 291 | 334 | 355 | 347 | 309 | 257 | 201 | 145 | 100 | 78  | 86  |
| FRI | 10 |     | 117 | 156 | 196 | 229 | 246 | 236 | 204 | 167 | 135 | 114 | 110 | 130 | 174 | 226 | 276 | 318 | 341 | 338 | 305 | 254 | 196 | 138 | 92  | 69  |
| SAT | 11 | ●   | 78  | 111 | 155 | 202 | 241 | 264 | 258 | 230 | 191 | 153 | 126 | 115 | 128 | 165 | 214 | 264 | 306 | 331 | 330 | 299 | 246 | 184 | 126 | 80  |
| SUN | 12 |     | 59  | 71  | 110 | 162 | 216 | 261 | 286 | 283 | 252 | 209 | 165 | 132 | 115 | 123 | 157 | 206 | 256 | 298 | 322 | 320 | 286 | 229 | 166 | 108 |
| MON | 13 |     | 66  | 52  | 72  | 119 | 179 | 238 | 284 | 310 | 304 | 267 | 217 | 168 | 131 | 113 | 120 | 155 | 204 | 255 | 293 | 313 | 306 | 265 | 205 | 141 |
| TUE | 14 |     | 88  | 55  | 51  | 83  | 139 | 205 | 265 | 310 | 331 | 315 | 270 | 214 | 163 | 127 | 109 | 121 | 159 | 209 | 256 | 288 | 302 | 285 | 237 | 175 |
| WED | 15 |     | 114 | 70  | 49  | 60  | 105 | 169 | 238 | 295 | 334 | 344 | 315 | 261 | 202 | 153 | 119 | 108 | 127 | 168 | 217 | 258 | 281 | 285 | 257 | 204 |
| THU | 16 |     | 143 | 90  | 59  | 52  | 80  | 136 | 205 | 272 | 322 | 353 | 345 | 303 | 243 | 184 | 140 | 113 | 111 | 137 | 180 | 226 | 257 | 272 | 263 | 225 |
| FRI | 17 |     | 171 | 114 | 74  | 56  | 66  | 110 | 173 | 243 | 303 | 344 | 359 | 333 | 281 | 219 | 166 | 129 | 110 | 120 | 151 | 194 | 232 | 253 | 258 | 236 |
| SAT | 18 |     | 193 | 140 | 92  | 66  | 63  | 92  | 146 | 211 | 278 | 327 | 357 | 351 | 311 | 254 | 194 | 150 | 121 | 114 | 133 | 167 | 207 | 234 | 246 | 238 |
| SUN | 19 | ○   | 206 | 162 | 115 | 80  | 68  | 81  | 125 | 183 | 248 | 305 | 343 | 356 | 331 | 282 | 224 | 173 | 139 | 120 | 125 | 149 | 183 | 216 | 233 | 235 |
| MON | 20 |     | 215 | 178 | 136 | 97  | 76  | 78  | 108 | 160 | 219 | 279 | 324 | 349 | 343 | 304 | 251 | 198 | 157 | 132 | 124 | 139 | 165 | 198 | 221 | 229 |
| TUE | 21 |     | 221 | 192 | 155 | 117 | 88  | 81  | 96  | 137 | 192 | 250 | 301 | 333 | 345 | 322 | 276 | 225 | 179 | 148 | 130 | 132 | 152 | 179 | 206 | 221 |
| WED | 22 |     | 223 | 207 | 174 | 138 | 106 | 89  | 92  | 118 | 165 | 219 | 273 | 313 | 335 | 333 | 300 | 253 | 205 | 167 | 143 | 132 | 140 | 161 | 187 | 209 |
| THU | 23 |     | 218 | 216 | 195 | 163 | 131 | 106 | 98  | 108 | 140 | 188 | 240 | 286 | 316 | 331 | 318 | 281 | 236 | 193 | 160 | 140 | 133 | 143 | 165 | 190 |
| FRI | 24 |     | 207 | 216 | 212 | 190 | 162 | 133 | 115 | 111 | 125 | 158 | 203 | 251 | 290 | 315 | 323 | 305 | 269 | 226 | 185 | 155 | 134 | 129 | 140 | 162 |
| SAT | 25 |     | 187 | 206 | 217 | 214 | 196 | 170 | 145 | 129 | 126 | 1   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |