



**EXPLANATION**  
(See plate 1 for explanation of geologic symbols)

● F-1  
Rock-sample locality. Samples collected by Guam field party, 1951-54

▲ S-5  
Soils locality. Samples collected by C. H. Stensland and J. E. Weaver, 1954

□ S-31  
Samples collected by Josiah Bridge, 1946

**SAMPLE LOCALITIES ON GUAM**  
(Chapters refer to Professional Paper 403)

| SAMPLE | FORMATION | CHAPTER       | SAMPLE | FORMATION | CHAPTER       | SAMPLE | FORMATION | CHAPTER    |
|--------|-----------|---------------|--------|-----------|---------------|--------|-----------|------------|
| Ch 2   | Ta        | C, E          | Hl 12  | Tum       | E, G          | Sx 1   | Qtrm      | D          |
| Ch 3   | Tuf       | A, D, E, F    | Hl 11  | Ta        | A, D, E       | Sx 2   | Qtrm      | D          |
| Ch 4   | Qm        | E             | Ch 5   | Ta        | E             | Ts 2   | Tb        | D, E       |
| Ch 5   | Qtrm      | E             | Hn 5   | Ta        | E             | Ts 5   | Tj        | A, D, E, F |
| Ch 6   | Tuf       | A, E          | Hn 7   | Ta        | G, I          | Ts 6   | Tal       | D, E, F, G |
| Ch 7   | Tuf       | C, F          | Ie 2   | Tum, Tub  | E, F          | Ts 16  | Tal       | A, D, E, G |
| Ch 8   | Tum       | A, D, F       | Ie 8   | Tuf       | C, F          | Ts 17  | Tal       | D, E, G    |
| Ch 9   | Tuf       | A, D, E       | Ie 6   | Tuf       | A, C, F       | Ts 18  | Tal       | D          |
| Ch 10  | Tal       | D             | Ie 7   | Tal       | A, E          | Ts 19  | Tal       | D, G       |
| Ch 11  | Tal       | D             | Ie 9   | Tal       | A, E          | Ts 20  | Tal       | D          |
| Ch 12  | Tal       | D             | Ie 10  | Qtrm      | A, E          | Uc 6   | Tb        | D, F       |
| Ch 13  | Tal       | D             | Ie 11  | Ta        | A, D, E, G    | Uc 1   | Uc 1      | A, D, G    |
| Ch 14  | Tal       | A, E, F, G    | Ie 12  | Tb        | D, E          | Uc 3   | Qtrm      | A, D, E    |
| Ch 15  | Tum, Tub  | D, F          | Ie 13  | Tb        | D, E          | GMH 1  | Qtrm      | G          |
| Ch 16  | Tum       | D, E, G       | Ie 14  | Tb        | D, E, G       | GMH 3  | Qtrm      | G          |
| Ch 17  | Tum       | D, E, G       | Ie 15  | Tum       | D, E, F       | GMH 7  | Qtrm      | G          |
| Ch 18  | Tum       | D, E          | Ie 16  | Tum, Tub  | D, E, G       | GMH 11 | Qtrm      | G          |
| Ch 19  | Tum       | D, E          | Ie 17  | Tb, Tub   | D, E          |        |           |            |
| Ch 20  | Tum, Tub  | A, C, D, E, F | Ie 18  | Tum, Tub  | A, E, F       |        |           |            |
| Ch 21  | Tum       | A, D, E, F, G | Ie 19  | Qtrm      | A, D, F       |        |           |            |
| Ch 22  | Tum       | D, E          | Ie 20  | Ta        | A, E          |        |           |            |
| Ch 23  | Tum       | D, E          | Ie 21  | Ta        | A, D, E, F, G |        |           |            |
| Ch 24  | Tum, Tub  | D, E          | Ie 22  | Ta        | A, D, E, F, G |        |           |            |
| Ch 25  | Tum, Tub  | D, E          | Ie 23  | Ta        | A, D, E, F, G |        |           |            |
| Ch 26  | Tum, Tub  | D, E          | Ie 24  | Ta        | A, D, E, F, G |        |           |            |
| Ch 27  | Tum, Tub  | D, E          | Ie 25  | Ta        | A, D, E, F, G |        |           |            |
| Ch 28  | Tum, Tub  | D, E          | Ie 26  | Ta        | A, D, E, F, G |        |           |            |
| Ch 29  | Tum, Tub  | D, E          | Ie 27  | Ta        | A, D, E, F, G |        |           |            |
| Ch 30  | Tum, Tub  | D, E          | Ie 28  | Ta        | A, D, E, F, G |        |           |            |
| Ch 31  | Tum, Tub  | D, E          | Ie 29  | Ta        | A, D, E, F, G |        |           |            |
| Ch 32  | Tum, Tub  | D, E          | Ie 30  | Ta        | A, D, E, F, G |        |           |            |
| Ch 33  | Tum, Tub  | D, E          | Ie 31  | Ta        | A, D, E, F, G |        |           |            |
| Ch 34  | Tum, Tub  | D, E          | Ie 32  | Ta        | A, D, E, F, G |        |           |            |
| Ch 35  | Tum, Tub  | D, E          | Ie 33  | Ta        | A, D, E, F, G |        |           |            |
| Ch 36  | Tum, Tub  | D, E          | Ie 34  | Ta        | A, D, E, F, G |        |           |            |
| Ch 37  | Tum, Tub  | D, E          | Ie 35  | Ta        | A, D, E, F, G |        |           |            |
| Ch 38  | Tum, Tub  | D, E          | Ie 36  | Ta        | A, D, E, F, G |        |           |            |
| Ch 39  | Tum, Tub  | D, E          | Ie 37  | Ta        | A, D, E, F, G |        |           |            |
| Ch 40  | Tum, Tub  | D, E          | Ie 38  | Ta        | A, D, E, F, G |        |           |            |
| Ch 41  | Tum, Tub  | D, E          | Ie 39  | Ta        | A, D, E, F, G |        |           |            |
| Ch 42  | Tum, Tub  | D, E          | Ie 40  | Ta        | A, D, E, F, G |        |           |            |
| Ch 43  | Tum, Tub  | D, E          | Ie 41  | Ta        | A, D, E, F, G |        |           |            |
| Ch 44  | Tum, Tub  | D, E          | Ie 42  | Ta        | A, D, E, F, G |        |           |            |
| Ch 45  | Tum, Tub  | D, E          | Ie 43  | Ta        | A, D, E, F, G |        |           |            |
| Ch 46  | Tum, Tub  | D, E          | Ie 44  | Ta        | A, D, E, F, G |        |           |            |
| Ch 47  | Tum, Tub  | D, E          | Ie 45  | Ta        | A, D, E, F, G |        |           |            |
| Ch 48  | Tum, Tub  | D, E          | Ie 46  | Ta        | A, D, E, F, G |        |           |            |
| Ch 49  | Tum, Tub  | D, E          | Ie 47  | Ta        | A, D, E, F, G |        |           |            |
| Ch 50  | Tum, Tub  | D, E          | Ie 48  | Ta        | A, D, E, F, G |        |           |            |
| Ch 51  | Tum, Tub  | D, E          | Ie 49  | Ta        | A, D, E, F, G |        |           |            |
| Ch 52  | Tum, Tub  | D, E          | Ie 50  | Ta        | A, D, E, F, G |        |           |            |
| Ch 53  | Tum, Tub  | D, E          | Ie 51  | Ta        | A, D, E, F, G |        |           |            |
| Ch 54  | Tum, Tub  | D, E          | Ie 52  | Ta        | A, D, E, F, G |        |           |            |
| Ch 55  | Tum, Tub  | D, E          | Ie 53  | Ta        | A, D, E, F, G |        |           |            |
| Ch 56  | Tum, Tub  | D, E          | Ie 54  | Ta        | A, D, E, F, G |        |           |            |
| Ch 57  | Tum, Tub  | D, E          | Ie 55  | Ta        | A, D, E, F, G |        |           |            |
| Ch 58  | Tum, Tub  | D, E          | Ie 56  | Ta        | A, D, E, F, G |        |           |            |
| Ch 59  | Tum, Tub  | D, E          | Ie 57  | Ta        | A, D, E, F, G |        |           |            |
| Ch 60  | Tum, Tub  | D, E          | Ie 58  | Ta        | A, D, E, F, G |        |           |            |
| Ch 61  | Tum, Tub  | D, E          | Ie 59  | Ta        | A, D, E, F, G |        |           |            |
| Ch 62  | Tum, Tub  | D, E          | Ie 60  | Ta        | A, D, E, F, G |        |           |            |
| Ch 63  | Tum, Tub  | D, E          | Ie 61  | Ta        | A, D, E, F, G |        |           |            |
| Ch 64  | Tum, Tub  | D, E          | Ie 62  | Ta        | A, D, E, F, G |        |           |            |
| Ch 65  | Tum, Tub  | D, E          | Ie 63  | Ta        | A, D, E, F, G |        |           |            |
| Ch 66  | Tum, Tub  | D, E          | Ie 64  | Ta        | A, D, E, F, G |        |           |            |
| Ch 67  | Tum, Tub  | D, E          | Ie 65  | Ta        | A, D, E, F, G |        |           |            |
| Ch 68  | Tum, Tub  | D, E          | Ie 66  | Ta        | A, D, E, F, G |        |           |            |
| Ch 69  | Tum, Tub  | D, E          | Ie 67  | Ta        | A, D, E, F, G |        |           |            |
| Ch 70  | Tum, Tub  | D, E          | Ie 68  | Ta        | A, D, E, F, G |        |           |            |
| Ch 71  | Tum, Tub  | D, E          | Ie 69  | Ta        | A, D, E, F, G |        |           |            |
| Ch 72  | Tum, Tub  | D, E          | Ie 70  | Ta        | A, D, E, F, G |        |           |            |
| Ch 73  | Tum, Tub  | D, E          | Ie 71  | Ta        | A, D, E, F, G |        |           |            |
| Ch 74  | Tum, Tub  | D, E          | Ie 72  | Ta        | A, D, E, F, G |        |           |            |
| Ch 75  | Tum, Tub  | D, E          | Ie 73  | Ta        | A, D, E, F, G |        |           |            |
| Ch 76  | Tum, Tub  | D, E          | Ie 74  | Ta        | A, D, E, F, G |        |           |            |
| Ch 77  | Tum, Tub  | D, E          | Ie 75  | Ta        | A, D, E, F, G |        |           |            |
| Ch 78  | Tum, Tub  | D, E          | Ie 76  | Ta        | A, D, E, F, G |        |           |            |
| Ch 79  | Tum, Tub  | D, E          | Ie 77  | Ta        | A, D, E, F, G |        |           |            |
| Ch 80  | Tum, Tub  | D, E          | Ie 78  | Ta        | A, D, E, F, G |        |           |            |
| Ch 81  | Tum, Tub  | D, E          | Ie 79  | Ta        | A, D, E, F, G |        |           |            |
| Ch 82  | Tum, Tub  | D, E          | Ie 80  | Ta        | A, D, E, F, G |        |           |            |
| Ch 83  | Tum, Tub  | D, E          | Ie 81  | Ta        | A, D, E, F, G |        |           |            |
| Ch 84  | Tum, Tub  | D, E          | Ie 82  | Ta        | A, D, E, F, G |        |           |            |
| Ch 85  | Tum, Tub  | D, E          | Ie 83  | Ta        | A, D, E, F, G |        |           |            |
| Ch 86  | Tum, Tub  | D, E          | Ie 84  | Ta        | A, D, E, F, G |        |           |            |
| Ch 87  | Tum, Tub  | D, E          | Ie 85  | Ta        | A, D, E, F, G |        |           |            |
| Ch 88  | Tum, Tub  | D, E          | Ie 86  | Ta        | A, D, E, F, G |        |           |            |
| Ch 89  | Tum, Tub  | D, E          | Ie 87  | Ta        | A, D, E, F, G |        |           |            |
| Ch 90  | Tum, Tub  | D, E          | Ie 88  | Ta        | A, D, E, F, G |        |           |            |
| Ch 91  | Tum, Tub  | D, E          | Ie 89  | Ta        | A, D, E, F, G |        |           |            |
| Ch 92  | Tum, Tub  | D, E          | Ie 90  | Ta        | A, D, E, F, G |        |           |            |
| Ch 93  | Tum, Tub  | D, E          | Ie 91  | Ta        | A, D, E, F, G |        |           |            |
| Ch 94  | Tum, Tub  | D, E          | Ie 92  | Ta        | A, D, E, F, G |        |           |            |
| Ch 95  | Tum, Tub  | D, E          | Ie 93  | Ta        | A, D, E, F, G |        |           |            |
| Ch 96  | Tum, Tub  | D, E          | Ie 94  | Ta        | A, D, E, F, G |        |           |            |
| Ch 97  | Tum, Tub  | D, E          | Ie 95  | Ta        | A, D, E, F, G |        |           |            |
| Ch 98  | Tum, Tub  | D, E          | Ie 96  | Ta        | A, D, E, F, G |        |           |            |
| Ch 99  | Tum, Tub  | D, E          | Ie 97  | Ta        | A, D, E, F, G |        |           |            |
| Ch 100 | Tum, Tub  | D, E          | Ie 98  | Ta        | A, D, E, F, G |        |           |            |
| Ch 101 | Tum, Tub  | D, E          | Ie 99  | Ta        | A, D, E, F, G |        |           |            |
| Ch 102 | Tum, Tub  | D, E          | Ie 100 | Ta        | A, D, E, F, G |        |           |            |
| Ch 103 | Tum, Tub  | D, E          | Ie 101 | Ta        | A, D, E, F, G |        |           |            |
| Ch 104 | Tum, Tub  | D, E          | Ie 102 | Ta        | A, D, E, F, G |        |           |            |
| Ch 105 | Tum, Tub  | D, E          | Ie 103 | Ta        | A, D, E, F, G |        |           |            |
| Ch 106 | Tum, Tub  | D, E          | Ie 104 | Ta        | A, D, E, F, G |        |           |            |
| Ch 107 | Tum, Tub  | D, E          | Ie 105 | Ta        | A, D, E, F, G |        |           |            |
| Ch 108 | Tum, Tub  | D, E          | Ie 106 | Ta        | A, D, E, F, G |        |           |            |
| Ch 109 | Tum, Tub  | D, E          | Ie 107 | Ta        | A, D, E, F, G |        |           |            |
| Ch 110 | Tum, Tub  | D, E          | Ie 108 | Ta        | A, D, E, F, G |        |           |            |
| Ch 111 | Tum, Tub  | D, E          | Ie 109 | Ta        | A, D, E, F, G |        |           |            |
| Ch 112 | Tum, Tub  | D, E          | Ie 110 | Ta        | A, D, E, F, G |        |           |            |
| Ch 113 | Tum, Tub  | D, E          | Ie 111 | Ta        | A, D, E, F, G |        |           |            |
| Ch 114 | Tum, Tub  | D, E          | Ie 112 | Ta        | A, D, E, F, G |        |           |            |
| Ch 115 | Tum, Tub  | D, E          | Ie 113 | Ta        | A, D, E, F, G |        |           |            |
| Ch 116 | Tum, Tub  | D, E          | Ie 114 | Ta        | A, D, E, F, G |        |           |            |
| Ch 117 | Tum, Tub  | D, E          | Ie 115 | Ta        | A, D, E, F, G |        |           |            |
| Ch 118 | Tum, Tub  | D, E          | Ie 116 | Ta        | A, D, E, F, G |        |           |            |
| Ch 119 | Tum, Tub  | D, E          | Ie 117 | Ta        | A, D, E, F, G |        |           |            |
| Ch 120 | Tum, Tub  | D, E          | Ie 118 | Ta        | A, D, E, F, G |        |           |            |
| Ch 121 | Tum, Tub  | D, E          | Ie 119 | Ta        | A, D, E, F, G |        |           |            |
| Ch 122 | Tum, Tub  | D, E          | Ie 120 | Ta        | A, D, E, F, G |        |           |            |
| Ch 123 | Tum, Tub  | D, E          | Ie 121 | Ta        | A, D, E, F, G |        |           |            |
| Ch 124 | Tum, Tub  | D, E          | Ie 122 | Ta        | A, D, E, F, G |        |           |            |
| Ch 125 | Tum, Tub  | D, E          | Ie 123 | Ta        | A, D, E, F, G |        |           |            |
| Ch 126 | Tum, Tub  | D, E          | Ie 124 | Ta        | A, D, E, F, G |        |           |            |
| Ch 127 | Tum, Tub  | D, E          | Ie 125 | Ta        | A, D, E, F, G |        |           |            |
| Ch 128 | Tum, Tub  | D, E          | Ie 126 | Ta        | A, D, E, F, G |        |           |            |
| Ch 129 | Tum, Tub  | D, E          | Ie 127 | Ta        | A, D, E, F, G |        |           |            |
| Ch 130 | Tum, Tub  | D, E          | Ie 128 | Ta        | A, D, E, F, G |        |           |            |
| Ch 131 | Tum, Tub  | D, E          | Ie 129 | Ta        | A, D, E, F, G |        |           |            |
| Ch 132 | Tum, Tub  | D, E          | Ie 130 | Ta        | A, D, E, F, G |        |           |            |
| Ch 133 | Tum, Tub  | D, E          | Ie 131 | Ta        | A, D, E, F, G |        |           |            |
| Ch 134 | Tum, Tub  | D, E          | Ie 132 | Ta        | A, D, E, F, G |        |           |            |
| Ch 135 | Tum, Tub  | D, E          | Ie 133 | Ta        | A, D, E, F, G |        |           |            |
| Ch 136 | Tum, Tub  | D, E          | Ie 134 | Ta        | A, D, E, F, G |        |           |            |
| Ch 137 | Tum, Tub  | D, E          | Ie 135 | Ta        | A, D, E, F, G |        |           |            |
| Ch 138 | Tum, Tub  | D, E          | Ie 136 | Ta        | A, D, E, F, G |        |           |            |
| Ch 139 | Tum, Tub  | D, E          | Ie 137 | Ta        | A, D, E, F, G |        |           |            |
| Ch 140 | Tum, Tub  | D, E          | Ie 138 | Ta        | A, D, E, F, G |        |           |            |
| Ch 141 | Tum, Tub  | D, E          | Ie 139 | Ta        | A, D, E, F, G |        |           |            |
| Ch 142 | Tum, Tub  | D, E          | Ie 140 | Ta        | A, D, E, F, G |        |           |            |
| Ch 143 | Tum, Tub  | D, E          | Ie 141 | Ta        | A, D, E, F, G |        |           |            |
| Ch 144 | Tum, Tub  | D, E          | Ie 142 | Ta        | A, D, E, F, G |        |           |            |
| Ch 145 | Tum, Tub  | D, E          | Ie 143 | Ta        | A, D, E, F, G |        |           |            |
| Ch 146 | Tum, Tub  | D, E          | Ie 144 | Ta        | A, D, E, F, G |        |           |            |
| Ch 147 | Tum, Tub  | D, E          | Ie 145 | Ta        | A, D, E, F, G |        |           |            |
| Ch 148 | Tum, Tub  | D, E          | Ie 146 | Ta        | A, D, E, F, G |        |           |            |
| Ch 149 | Tum, Tub  | D, E          | Ie 147 | Ta        | A, D, E, F, G |        |           |            |
| Ch 150 | Tum, Tub  | D, E          | Ie 148 | Ta        | A, D, E, F, G |        |           |            |
| Ch 151 | Tum, Tub  | D, E          | Ie 149 | Ta        | A, D, E, F, G |        |           |            |
| Ch 152 | Tum, Tub  | D, E          | Ie 150 | Ta        | A, D, E, F, G |        |           |            |
| Ch 153 | Tum, Tub  | D, E          | Ie 151 | Ta        | A, D, E, F, G |        |           |            |
| Ch 154 | Tum, Tub  | D, E          | Ie 152 | Ta        | A, D, E, F, G |        |           |            |
| Ch 155 | Tum, Tub  | D, E          | Ie 153 | Ta        | A, D, E, F, G |        |           |            |
| Ch 156 | Tum, Tub  | D, E          | Ie 154 | Ta        | A, D, E, F, G |        |           |            |
| Ch 157 | Tum, Tub  | D, E          | Ie 155 | Ta        | A, D, E, F, G |        |           |            |
| Ch 158 | Tum, Tub  | D, E          | Ie 156 | Ta        | A, D, E, F, G |        |           |            |
| Ch 159 | Tum, Tub  | D, E          | Ie 157 | Ta        | A, D, E, F, G |        |           |            |
| Ch 160 | Tum, Tub  | D, E          | Ie 158 | Ta        | A, D, E, F, G |        |           |            |
| Ch 161 | Tum, Tub  | D, E          | Ie 159 | Ta        | A, D, E, F, G |        |           |            |
| Ch 162 | Tum, Tub  | D, E          | Ie 160 | Ta        | A, D, E, F, G |        |           |            |
| Ch 163 | Tum, Tub  | D, E          | Ie 161 | Ta        | A, D, E, F, G |        |           |            |
| Ch 164 | Tum, Tub  | D, E          | Ie 162 | Ta        | A, D, E, F, G |        |           |            |
| Ch 165 | Tum, Tub  | D, E          | Ie 163 | Ta        | A, D, E, F, G |        |           |            |
| Ch 166 | Tum, Tub  | D, E          | Ie 164 | Ta        | A, D, E, F, G |        |           |            |
| Ch 167 | Tum, Tub  | D, E          | Ie 165 | Ta        | A, D, E, F, G |        |           |            |
| Ch 168 | Tum, Tub  | D, E          | Ie 166 | Ta        | A, D, E, F, G |        |           |            |
| Ch 169 | Tum, Tub  | D, E          | Ie 167 | Ta        | A, D, E, F, G |        |           |            |
| Ch 170 | Tum, Tub  | D, E          | Ie 168 | Ta        | A,            |        |           |            |