

| G  | r    | o  | u         | p       | S     | e      | q   | I   | D         | S       | t | n   | D   | a      | t       | e  | S    | D | e | f | i | n | t | L | T | A |  |
|----|------|----|-----------|---------|-------|--------|-----|-----|-----------|---------|---|-----|-----|--------|---------|----|------|---|---|---|---|---|---|---|---|---|--|
|    |      |    |           |         |       |        |     |     |           |         |   |     |     |        |         |    |      |   |   |   |   |   |   |   |   |   |  |
| 1: | 1-63 | 1  | DWR-R087  | 2007-10 | 38.12 | 121.56 | 69  | 0.3 | DWR-R087  | 01OCT07 | . | 69  | 0.3 | 38.117 | 121.557 | 22 | 1545 |   |   |   |   |   |   |   |   |   |  |
|    |      | 2  | DWR-R151  | 2007-10 | 38.15 | 121.55 | 93  | 0.2 | DWR-R151  | 01OCT07 | . | 93  | 0.2 | 38.148 | 121.545 | 21 | 1768 |   |   |   |   |   |   |   |   |   |  |
|    |      | 3  | DWR-R019  | 2007-10 | 38.11 | 121.62 | 95  | 0.4 | DWR-R019  | 01OCT07 | . | 95  | 0.4 | 38.113 | 121.617 | 24 | 745  |   |   |   |   |   |   |   |   |   |  |
|    |      | 4  | SQO-MR05  | 2007-09 | 38.16 | 121.53 | 98  | 0.2 | SQO-MR05  | 19SEP07 | . | 98  | 0.2 | 38.164 | 121.531 | 19 | 471  |   |   |   |   |   |   |   |   |   |  |
|    |      | 5  | SQO-MR06  | 2007-09 | 38.18 | 121.53 | .   | .   | SQO-MR06  | 19SEP07 | . | .   | .   | 38.179 | 121.526 | 27 | 742  |   |   |   |   |   |   |   |   |   |  |
|    |      | 6  | DWR-R037  | 2007-10 | 38.08 | 121.44 | 81  | 0.7 | DWR-R037  | 01OCT07 | . | 81  | 0.7 | 38.083 | 121.438 | 11 | 90   |   |   |   |   |   |   |   |   |   |  |
|    |      | 7  | SQO-MR04  | 2007-09 | 38.16 | 121.53 | 87  | 0.2 | SQO-MR04  | 19SEP07 | . | 87  | 0.2 | 38.156 | 121.535 | 24 | 408  |   |   |   |   |   |   |   |   |   |  |
|    |      | 8  | DWR-R023  | 2007-10 | 38.10 | 121.57 | 84  | 0.4 | DWR-R023  | 01OCT07 | . | 84  | 0.4 | 38.096 | 121.566 | 29 | 420  |   |   |   |   |   |   |   |   |   |  |
|    |      | 9  | DWR-R135  | 2007-10 | 38.14 | 121.60 | .   | .   | DWR-R135  | 01OCT07 | . | .   | .   | 38.141 | 121.598 | 18 | 167  |   |   |   |   |   |   |   |   |   |  |
|    |      | 10 | DWR-R101  | 2007-10 | 38.08 | 121.42 | .   | .   | DWR-R101  | 01OCT07 | . | .   | .   | 38.081 | 121.416 | 18 | 336  |   |   |   |   |   |   |   |   |   |  |
|    |      | 11 | DWR-R054  | 2007-10 | 38.09 | 121.56 | .   | .   | DWR-R054  | 01OCT07 | . | .   | .   | 38.088 | 121.560 | 17 | 173  |   |   |   |   |   |   |   |   |   |  |
|    |      | 12 | DWR-R677  | 2007-10 | 38.05 | 121.42 | .   | .   | DWR-R677  | 01OCT07 | . | .   | .   | 38.052 | 121.419 | 17 | 198  |   |   |   |   |   |   |   |   |   |  |
|    |      | 13 | DWR-R049  | 2007-10 | 37.92 | 121.59 | 100 | 0.5 | DWR-R049  | 04OCT07 | . | 100 | 0.5 | 37.920 | 121.588 | 13 | 854  |   |   |   |   |   |   |   |   |   |  |
|    |      | 14 | DWR-R146  | 2007-10 | 38.05 | 121.52 | .   | .   | DWR-R146  | 01OCT07 | . | .   | .   | 38.053 | 121.524 | 13 | 350  |   |   |   |   |   |   |   |   |   |  |
|    |      | 15 | SQO-SAC02 | 2007-09 | 38.16 | 121.62 | 52  | 0.1 | SQO-SAC02 | 20SEP07 | . | 52  | 0.1 | 38.165 | 121.618 | 23 | 747  |   |   |   |   |   |   |   |   |   |  |
|    |      | 16 | SQO-SAC01 | 2007-09 | 38.17 | 121.60 | .   | .   | SQO-SAC01 | 20SEP07 | . | .   | .   | 38.167 | 121.597 | 16 | 848  |   |   |   |   |   |   |   |   |   |  |
|    |      | 17 | SQO-SAC03 | 2007-09 | 38.17 | 121.63 | 35  | 0.1 | SQO-SAC03 | 20SEP07 | . | 35  | 0.1 | 38.167 | 121.630 | 14 | 962  |   |   |   |   |   |   |   |   |   |  |
|    |      | 18 | SQO-MR01  | 2007-09 | 38.14 | 121.56 | 94  | 0.1 | SQO-MR01  | 19SEP07 | . | 94  | 0.1 | 38.136 | 121.562 | 16 | 427  |   |   |   |   |   |   |   |   |   |  |
|    |      | 19 | SQO-MR02  | 2007-09 | 38.15 | 121.56 | .   | .   | SQO-MR02  | 19SEP07 | . | .   | .   | 38.145 | 121.555 | 8  | 469  |   |   |   |   |   |   |   |   |   |  |
|    |      | 20 | SQO-CS02  | 2007-09 | 38.25 | 121.69 | 68  | 0.1 | SQO-CS02  | 20SEP07 | . | 68  | 0.1 | 38.246 | 121.689 | 11 | 248  |   |   |   |   |   |   |   |   |   |  |
|    |      | 21 | SQO-GS02  | 2007-09 | 38.15 | 121.59 | 65  | 0.1 | SQO-GS02  | 19SEP07 | . | 65  | 0.1 | 38.150 | 121.592 | 10 | 909  |   |   |   |   |   |   |   |   |   |  |
|    |      | 22 | SQO-GS03  | 2007-09 | 38.16 | 121.59 | .   | .   | SQO-GS03  | 19SEP07 | . | .   | .   | 38.158 | 121.589 | 6  | 694  |   |   |   |   |   |   |   |   |   |  |
|    |      | 23 | DWR-R130  | 2007-10 | 38.07 | 121.46 | .   | .   | DWR-R130  | 01OCT07 | . | .   | .   | 38.075 | 121.465 | 15 | 248  |   |   |   |   |   |   |   |   |   |  |
|    |      | 24 | DWR-R113  | 2007-10 | 37.94 | 121.55 | 69  | 0.4 | DWR-R113  | 04OCT07 | . | 69  | 0.4 | 37.941 | 121.550 | 13 | 709  |   |   |   |   |   |   |   |   |   |  |
|    |      | 25 | DWR-R070  | 2007-10 | 37.98 | 121.52 | .   | .   | DWR-R070  | 01OCT07 | . | .   | .   | 37.978 | 121.521 | 13 | 358  |   |   |   |   |   |   |   |   |   |  |
|    |      | 26 | DWR-R102  | 2007-10 | 38.00 | 121.52 | .   | .   | DWR-R102  | 01OCT07 | . | .   | .   | 37.999 | 121.515 | 12 | 864  |   |   |   |   |   |   |   |   |   |  |
|    |      | 27 | DWR-R150  | 2007-10 | 37.99 | 121.51 | 99  | 0.4 | DWR-R150  | 01OCT07 | . | 99  | 0.4 | 37.992 | 121.514 | 12 | 1219 |   |   |   |   |   |   |   |   |   |  |



Samples in Dendrogram Sequence

| Group   | Sample ID | Date       | Depth (m) | Species | Distance | Depth (m) | Distance       | Depth (m) | Distance | Depth (m) | Distance |         |      |
|---------|-----------|------------|-----------|---------|----------|-----------|----------------|-----------|----------|-----------|----------|---------|------|
| 1: 1-63 | 55        | DWR-R153   | 2007-10   | 38.07   | 121.65   | . . .     | DWR-R153       | 04OCT07   | . . .    | 38.066    | 121.649  | 18      | 193  |
|         | 56        | DWR-R045   | 2007-10   | 38.02   | 121.71   | . 99 .    | 0.4 DWR-R045   | 03OCT07   | . . .    | 38.017    | 121.711  | 15      | 656  |
|         | 57        | DWR-R106   | 2007-10   | 38.04   | 121.59   | . . .     | DWR-R106       | 04OCT07   | . . .    | 38.042    | 121.593  | 15      | 261  |
|         | 58        | DWR-R103   | 2007-10   | 38.10   | 121.57   | . . .     | DWR-R103       | 01OCT07   | . . .    | 38.096    | 121.574  | 22      | 1512 |
|         | 59        | DWR-R122   | 2007-10   | 38.08   | 121.58   | . . .     | DWR-R122       | 01OCT07   | . . .    | 38.083    | 121.577  | 8       | 1691 |
|         | 60        | DWR-R157   | 2007-10   | 38.02   | 121.70   | . 81 .    | 1.2 DWR-R157   | 03OCT07   | . . .    | 38.015    | 121.703  | 10      | 701  |
|         | 61        | DWR-R138   | 2007-10   | 38.06   | 121.58   | . . .     | DWR-R138       | 04OCT07   | . . .    | 38.058    | 121.584  | 13      | 2263 |
|         | 62        | DWR-R018   | 2007-10   | 38.05   | 121.50   | . . .     | DWR-R018       | 01OCT07   | . . .    | 38.047    | 121.505  | 10      | 771  |
|         | 63        | DWR-D28A-L | 2007-09   | 37.97   | 121.57   | . 57 .    | 0.4 DWR-D28A-L | 12SEP07   | . . .    | 37.970    | 121.574  | 10      | 1171 |
|         | 2: 64-97  | 64         | DWR-R158  | 2007-10 | 37.99    | 121.53    | . . .          | DWR-R158  | 04OCT07  | . . .     | 37.988   | 121.534 | 7    |
| 65      |           | DWR-R021   | 2007-10   | 38.00   | 121.42   | . . .     | DWR-R021       | 01OCT07   | . . .    | 37.996    | 121.423  | 6       | 53   |
| 66      |           | DWR-P08-R  | 2008-08   | 37.98   | 121.38   | . . .     | DWR-P08-R      | 14AUG08   | . . .    | 37.978    | 121.382  | 8       | 65   |
| 67      |           | DWR-P08-R  | 2000-07   | 37.98   | 121.38   | . 45 .    | 0.1 DWR-P08-R  | 17JUL00   | . . .    | 37.978    | 121.382  | 6       | 55   |
| 68      |           | DWR-P08-R  | 2000-09   | 37.98   | 121.38   | . 42 .    | 0.1 DWR-P08-R  | 12SEP00   | . . .    | 37.978    | 121.382  | 6       | 67   |
| 69      |           | DWR-P08-R  | 2000-08   | 37.98   | 121.38   | . 67 .    | 0.4 DWR-P08-R  | 15AUG00   | . . .    | 37.978    | 121.382  | 5       | 100  |
| 70      |           | SQO-CS03   | 2007-09   | 38.26   | 121.69   | . 86 .    | 0.2 SQO-CS03   | 20SEP07   | . . .    | 38.261    | 121.692  | 8       | 147  |
| 71      |           | DWR-P08-R  | 2007-10   | 37.98   | 121.38   | . 61 .    | 0.3 DWR-P08-R  | 01OCT07   | . . .    | 37.978    | 121.382  | 7       | 126  |
| 72      |           | DWR-P08-R  | 2000-10   | 37.98   | 121.38   | . 69 .    | 0.4 DWR-P08-R  | 10OCT00   | . . .    | 37.978    | 121.382  | 4       | 92   |
| 73      |           | DWR-R069   | 2007-10   | 37.96   | 121.35   | . 96 .    | 0.2 DWR-R069   | 01OCT07   | . . .    | 37.956    | 121.352  | 3       | 39   |
| 74      |           | DWR-C09-R  | 2008-08   | 37.83   | 121.55   | . . .     | DWR-C09-R      | 14AUG08   | . . .    | 37.828    | 121.553  | 3       | 181  |
| 75      |           | DWR-R149   | 2007-10   | 37.98   | 121.39   | . . .     | DWR-R149       | 01OCT07   | . . .    | 37.985    | 121.389  | 3       | 116  |

Samples in Dendrogram Sequence

| G  | r     | o  | u          | p       | S     | I      | D | S   | D          | F       | L      | T       | A    |     |
|----|-------|----|------------|---------|-------|--------|---|-----|------------|---------|--------|---------|------|-----|
|    |       |    |            |         | Stn   | ID     |   | Dep | Th         | Conc    | Lat    | Long    | Abun |     |
| 2: | 64-97 | 76 | SQ0-STC02  | 2007-09 | 37.95 | 121.31 | . | .   | .          | .       | 37.953 | 121.311 | 4    | 56  |
|    |       | 77 | SQ0-STC03  | 2007-09 | 37.95 | 121.30 | . | 0.6 | SQ0-STC03  | 18SEP07 | 37.954 | 121.296 | 6    | 160 |
|    |       | 78 | SQ0-MR07   | 2007-09 | 38.19 | 121.53 | . | 0.1 | SQ0-MR07   | 19SEP07 | 38.190 | 121.526 | 8    | 656 |
|    |       | 79 | SQ0-SJR01  | 2007-09 | 37.95 | 121.34 | . | 0.1 | SQ0-SJR01  | 18SEP07 | 37.951 | 121.336 | 9    | 446 |
|    |       | 80 | SQ0-STC01  | 2007-09 | 37.95 | 121.32 | . | 0.1 | SQ0-STC01  | 18SEP07 | 37.953 | 121.322 | 4    | 376 |
|    |       | 81 | DWR-R085   | 2007-10 | 38.00 | 121.44 | . | .   | DWR-R085   | 01OCT07 | 37.998 | 121.443 | 14   | 306 |
|    |       | 82 | DWR-D28A-L | 2007-10 | 37.97 | 121.57 | . | 1.3 | DWR-D28A-L | 04OCT07 | 37.970 | 121.574 | 10   | 187 |
|    |       | 83 | DWR-P08-R  | 2008-07 | 37.98 | 121.38 | . | .   | DWR-P08-R  | 15JUL08 | 37.978 | 121.382 | 11   | 536 |
|    |       | 84 | DWR-P08-R  | 2007-07 | 37.98 | 121.38 | . | 0.1 | DWR-P08-R  | 17JUL07 | 37.978 | 121.382 | 10   | 283 |
|    |       | 85 | DWR-C09-R  | 2008-07 | 37.83 | 121.55 | . | .   | DWR-C09-R  | 15JUL08 | 37.828 | 121.553 | 7    | 418 |
|    |       | 86 | DWR-P08-R  | 2008-09 | 37.98 | 121.38 | . | .   | DWR-P08-R  | 16SEP08 | 37.978 | 121.382 | 7    | 116 |
|    |       | 87 | DWR-P08-R  | 2007-08 | 37.98 | 121.38 | . | 0.3 | DWR-P08-R  | 14AUG07 | 37.978 | 121.382 | 10   | 569 |
|    |       | 88 | DWR-R133   | 2007-10 | 37.96 | 121.36 | . | .   | DWR-R133   | 01OCT07 | 37.963 | 121.363 | 7    | 238 |
|    |       | 89 | DWR-P08-R  | 2007-09 | 37.98 | 121.38 | . | 0.2 | DWR-P08-R  | 12SEP07 | 37.978 | 121.382 | 6    | 185 |
|    |       | 90 | DWR-C09-R  | 2007-09 | 37.83 | 121.55 | . | 0.2 | DWR-C09-R  | 12SEP07 | 37.828 | 121.553 | 4    | 221 |
|    |       | 91 | DWR-C09-R  | 2007-07 | 37.83 | 121.55 | . | 0.2 | DWR-C09-R  | 17JUL07 | 37.828 | 121.553 | 5    | 222 |
|    |       | 92 | DWR-C09-R  | 2007-10 | 37.83 | 121.55 | . | 0.3 | DWR-C09-R  | 04OCT07 | 37.828 | 121.553 | 6    | 333 |
|    |       | 93 | DWR-C09-R  | 2000-07 | 37.83 | 121.55 | . | 0.3 | DWR-C09-R  | 17JUL00 | 37.828 | 121.553 | 6    | 111 |
|    |       | 94 | DWR-C09-R  | 2008-09 | 37.83 | 121.55 | . | .   | DWR-C09-R  | 16SEP08 | 37.828 | 121.553 | 4    | 107 |
|    |       | 95 | SQ0-CS01   | 2007-09 | 38.24 | 121.68 | . | 0.2 | SQ0-CS01   | 20SEP07 | 38.236 | 121.679 | 6    | 344 |
|    |       | 96 | DWR-C09-R  | 2007-08 | 37.83 | 121.55 | . | 0.2 | DWR-C09-R  | 14AUG07 | 37.828 | 121.553 | 5    | 316 |
|    |       | 97 | DWR-R076   | 2007-10 | 38.05 | 121.79 | . | .   | DWR-R076   | 03OCT07 | 38.051 | 121.792 | 8    | 173 |

Samples in Dendrogram Sequence

| Group     | Sample ID      | Date    | Depth (m) | Species | Distance | Height | Site       | Latitude | Longitude |    |      |
|-----------|----------------|---------|-----------|---------|----------|--------|------------|----------|-----------|----|------|
| 3: 98-154 | 98 DWR-R005    | 2007-10 | 37.95     | 121.45  | .97      | 0.8    | DWR-R005   | 01OCT07  | 121.446   | 4  | 16   |
|           | 99 DWR-D16-L   | 2008-07 | 38.09     | 121.67  | .        | .      | DWR-D16-L  | 15JUL08  | 121.667   | 3  | 6    |
|           | 100 DWR-D16-L  | 2007-07 | 38.09     | 121.67  | .60      | 0.1    | DWR-D16-L  | 17JUL07  | 121.667   | 3  | 3    |
|           | 101 DWR-D16-L  | 2007-09 | 38.09     | 121.67  | .54      | 0.0    | DWR-D16-L  | 12SEP07  | 121.667   | 3  | 4    |
|           | 102 DWR-D16-L  | 2007-08 | 38.09     | 121.67  | .53      | 0.1    | DWR-D16-L  | 15AUG07  | 121.667   | 3  | 5    |
|           | 103 DWR-R010   | 2007-10 | 38.08     | 121.54  | .        | .      | DWR-R010   | 01OCT07  | 121.541   | 1  | 5    |
|           | 104 DWR-D28A-L | 2000-09 | 37.97     | 121.57  | .34      | 0.6    | DWR-D28A-L | 11SEP00  | 121.574   | 2  | 5    |
|           | 105 DWR-C09-R  | 2000-10 | 37.83     | 121.55  | .42      | 0.1    | DWR-C09-R  | 10OCT00  | 121.553   | 2  | 18   |
|           | 106 DWR-D16-L  | 2008-09 | 38.09     | 121.67  | .        | .      | DWR-D16-L  | 16SEP08  | 121.667   | 2  | 3    |
|           | 107 DWR-R088   | 2007-10 | 38.03     | 121.84  | .        | .      | DWR-R088   | 03OCT07  | 121.840   | 7  | 2617 |
|           | 108 DWR-R170   | 2007-10 | 38.06     | 121.55  | .        | .      | DWR-R170   | 01OCT07  | 121.554   | 11 | 470  |
|           | 109 DWR-R137   | 2007-10 | 38.05     | 121.62  | .4       | 0.0    | DWR-R137   | 04OCT07  | 121.625   | 5  | 1619 |
|           | 110 DWR-R093   | 2007-10 | 38.04     | 121.70  | .8       | 0.0    | DWR-R093   | 03OCT07  | 121.703   | 7  | 2322 |
|           | 111 DWR-R131   | 2007-10 | 38.09     | 121.68  | .8       | 0.1    | DWR-R131   | 03OCT07  | 121.677   | 7  | 1009 |
|           | 112 DWR-D04-L  | 2007-08 | 38.06     | 121.82  | .26      | 2.4    | DWR-D04-L  | 15AUG07  | 121.818   | 11 | 2303 |
|           | 113 DWR-D04-L  | 2008-08 | 38.06     | 121.82  | .        | .      | DWR-D04-L  | 13AUG08  | 121.818   | 8  | 514  |
|           | 114 DWR-D04-L  | 2007-07 | 38.06     | 121.82  | .21      | 3.1    | DWR-D04-L  | 16JUL07  | 121.818   | 7  | 931  |
|           | 115 DWR-D04-L  | 2000-08 | 38.06     | 121.82  | .23      | 5.5    | DWR-D04-L  | 15AUG00  | 121.818   | 3  | 230  |
|           | 116 DWR-D04-L  | 2000-07 | 38.06     | 121.82  | .37      | 0.3    | DWR-D04-L  | 19JUL00  | 121.818   | 5  | 285  |
|           | 117 DWR-D04-L  | 2000-10 | 38.06     | 121.82  | .25      | 4.7    | DWR-D04-L  | 12OCT00  | 121.818   | 9  | 45   |
|           | 118 DWR-R163   | 2007-10 | 38.18     | 121.67  | .        | .      | DWR-R163   | 03OCT07  | 121.669   | 3  | 133  |
|           | 119 DWR-R046   | 2007-10 | 38.02     | 121.61  | .1       | 0.0    | DWR-R046   | 04OCT07  | 121.605   | 5  | 215  |
|           | 120 DWR-D28A-L | 2007-07 | 37.97     | 121.57  | .26      | 1.3    | DWR-D28A-L | 17JUL07  | 121.574   | 6  | 64   |
|           | 121 DWR-D28A-L | 2000-08 | 37.97     | 121.57  | .61      | 0.1    | DWR-D28A-L | 15AUG00  | 121.574   | 4  | 19   |
|           | 122 DWR-D16-L  | 2000-09 | 38.09     | 121.67  | .62      | 0.2    | DWR-D16-L  | 13SEP00  | 121.667   | 3  | 41   |
|           | 123 DWR-D24-L  | 2007-10 | 38.16     | 121.68  | .66      | 0.1    | DWR-D24-L  | 03OCT07  | 121.681   | 3  | 56   |
|           | 124 DWR-D28A-L | 2008-09 | 37.97     | 121.57  | .        | .      | DWR-D28A-L | 16SEP08  | 121.574   | 4  | 21   |

Samples in Dendrogram Sequence

| G  | r      | o   | u          | p       | S     | I      | D  | S   | t          | n       | S | D | e      | f   | L      | T       | A  |     |
|----|--------|-----|------------|---------|-------|--------|----|-----|------------|---------|---|---|--------|-----|--------|---------|----|-----|
|    |        |     |            |         | S     | I      | D  | S   | t          | n       | S | D | e      | f   | L      | T       | A  |     |
|    |        |     |            |         | S     | I      | D  | S   | t          | n       | S | D | e      | f   | L      | T       | A  |     |
| 3: | 98-154 | 125 | DWR-R701   | 2007-10 | 38.08 | 121.50 | .  | .   | DWR-R701   | 01OCT07 | . | . | .      | .   | 38.078 | 121.501 | 6  | 143 |
|    |        | 126 | DWR-D28A-L | 2000-10 | 37.97 | 121.57 | 58 | 0.1 | DWR-D28A-L | 10OCT00 | . | . | 58     | 0.1 | 37.970 | 121.574 | 4  | 110 |
|    |        | 127 | DWR-R078   | 2007-10 | 37.98 | 121.58 | 39 | 0.1 | DWR-R078   | 04OCT07 | . | . | 39     | 0.1 | 37.980 | 121.578 | 9  | 140 |
|    |        | 128 | DWR-R002   | 2007-10 | 38.08 | 121.50 | .  | .   | DWR-R002   | 01OCT07 | . | . | .      | .   | 38.076 | 121.502 | 5  | 316 |
|    |        | 129 | DWR-R118   | 2007-10 | 38.06 | 121.54 | .  | .   | DWR-R118   | 01OCT07 | . | . | .      | .   | 38.065 | 121.541 | 7  | 395 |
|    |        | 130 | DWR-D28A-L | 2008-08 | 37.97 | 121.57 | .  | .   | DWR-D28A-L | 14AUG08 | . | . | .      | .   | 37.970 | 121.574 | 8  | 233 |
|    |        | 131 | DWR-R174   | 2007-10 | 38.15 | 121.69 | 42 | 0.1 | DWR-R174   | 03OCT07 | . | . | 42     | 0.1 | 38.146 | 121.692 | 6  | 517 |
|    |        | 132 | DWR-D28A-L | 2008-07 | 37.97 | 121.57 | .  | .   | DWR-D28A-L | 15JUL08 | . | . | .      | .   | 37.970 | 121.574 | 7  | 171 |
|    |        | 133 | DWR-D16-L  | 2000-08 | 38.09 | 121.67 | 61 | 0.3 | DWR-D16-L  | 16AUG00 | . | . | 61     | 0.3 | 38.094 | 121.667 | 7  | 142 |
|    |        | 134 | DWR-D16-L  | 2000-07 | 38.09 | 121.67 | 95 | 0.2 | DWR-D16-L  | 19JUL00 | . | . | 95     | 0.2 | 38.094 | 121.667 | 5  | 155 |
|    |        | 135 | DWR-D24-L  | 2008-08 | 38.16 | 121.68 | .  | .   | DWR-D24-L  | 13AUG08 | . | . | .      | .   | 38.156 | 121.681 | 5  | 518 |
|    |        | 136 | DWR-D16-L  | 2008-08 | 38.09 | 121.67 | .  | .   | DWR-D16-L  | 14AUG08 | . | . | 38.094 | .   | 38.094 | 121.667 | 7  | 279 |
|    |        | 137 | DWR-R067   | 2007-10 | 38.14 | 121.69 | .  | .   | DWR-R067   | 03OCT07 | . | . | 38.139 | .   | 38.139 | 121.687 | 8  | 872 |
|    |        | 138 | DWR-R120   | 2007-10 | 38.04 | 121.79 | 88 | 0.2 | DWR-R120   | 03OCT07 | . | . | 88     | 0.2 | 38.045 | 121.795 | 9  | 797 |
|    |        | 139 | DWR-R696   | 2007-10 | 38.04 | 121.79 | .  | .   | DWR-R696   | 03OCT07 | . | . | 38.039 | .   | 38.039 | 121.789 | 10 | 578 |
|    |        | 140 | DWR-R012   | 2007-10 | 38.05 | 121.79 | .  | .   | DWR-R012   | 03OCT07 | . | . | 38.053 | .   | 38.053 | 121.794 | 12 | 700 |
|    |        | 141 | DWR-D28A-L | 2000-07 | 37.97 | 121.57 | 50 | 0.5 | DWR-D28A-L | 17JUL00 | . | . | 50     | 0.5 | 37.970 | 121.574 | 6  | 92  |
|    |        | 142 | DWR-D24-L  | 2007-09 | 38.16 | 121.68 | 97 | 0.1 | DWR-D24-L  | 11SEP07 | . | . | 97     | 0.1 | 38.156 | 121.681 | 8  | 60  |
|    |        | 143 | DWR-D16-L  | 2000-10 | 38.09 | 121.67 | 88 | 0.4 | DWR-D16-L  | 12OCT00 | . | . | 88     | 0.4 | 38.094 | 121.667 | 5  | 16  |
|    |        | 144 | DWR-D24-L  | 2007-07 | 38.16 | 121.68 | 69 | 0.1 | DWR-D24-L  | 16JUL07 | . | . | 69     | 0.1 | 38.156 | 121.681 | 5  | 41  |
|    |        | 145 | DWR-D24-L  | 2007-08 | 38.16 | 121.68 | 73 | 0.1 | DWR-D24-L  | 15AUG07 | . | . | 73     | 0.1 | 38.156 | 121.681 | 5  | 57  |
|    |        | 146 | DWR-C09-R  | 2000-09 | 37.83 | 121.55 | 56 | 0.1 | DWR-C09-R  | 11SEP00 | . | . | 56     | 0.1 | 37.828 | 121.553 | 4  | 31  |
|    |        | 147 | DWR-R115   | 2007-10 | 38.18 | 121.66 | .  | .   | DWR-R115   | 03OCT07 | . | . | 38.185 | .   | 38.185 | 121.662 | 4  | 81  |
|    |        | 148 | DWR-D24-L  | 2008-07 | 38.16 | 121.68 | .  | .   | DWR-D24-L  | 14JUL08 | . | . | 38.156 | .   | 38.156 | 121.681 | 4  | 101 |
|    |        | 149 | DWR-C09-R  | 2000-08 | 37.83 | 121.55 | 49 | 0.1 | DWR-C09-R  | 15AUG00 | . | . | 49     | 0.1 | 37.828 | 121.553 | 4  | 92  |
|    |        | 150 | DWR-D24-L  | 2008-09 | 38.16 | 121.68 | .  | .   | DWR-D24-L  | 15SEP08 | . | . | 38.156 | .   | 38.156 | 121.681 | 4  | 123 |
|    |        | 151 | DWR-D24-L  | 2000-08 | 38.16 | 121.68 | 81 | 0.3 | DWR-D24-L  | 16AUG00 | . | . | 81     | 0.3 | 38.156 | 121.681 | 3  | 142 |



Samples in Dendrogram Sequence

| G  | r       | o   | u         | p       | S     | I      | D  | S      | D     | F         | L        | T       | A   |     |        |         |        |         |   |     |
|----|---------|-----|-----------|---------|-------|--------|----|--------|-------|-----------|----------|---------|-----|-----|--------|---------|--------|---------|---|-----|
|    |         |     |           |         | Stn   |        |    | Sample | Depth |           | Lat      | Long    |     |     |        |         |        |         |   |     |
| 4: | 155-233 | 173 | BAD-SD04  | 1995-08 | 38.05 | 122.10 | 6  | 0      | 0.0   | BAD-SD04  | 24AUG95  | 6       | 0   | 0.0 | 38.046 | 122.099 | 3      | 33      |   |     |
|    |         | 174 | NOA-02-2  | 2000-07 | 38.06 | 121.86 | 1  | 46     | 0.1   | NOA-02-2  | 11JUL00  | 1       | 46  | 0.1 | 38.063 | 121.859 | 2      | 5       |   |     |
|    |         | 175 | NOA-03-3  | 2000-07 | 38.06 | 121.92 | 4  | 68     | 0.1   | NOA-03-3  | 14JUL00  | 4       | 68  | 0.1 | 38.064 | 121.924 | 6      | 34      |   |     |
|    |         | 176 | E00-CA20  | 2000-07 | 38.05 | 121.99 | 4  | 99     | 0.2   | E00-CA20  | 13JUL00  | 4       | 99  | 0.2 | 38.053 | 121.986 | 4      | 18      |   |     |
|    |         | 177 | NOA-06-1  | 2000-07 | 38.10 | 122.03 | 7  | 71     | 0.1   | NOA-06-1  | 12JUL00  | 7       | 71  | 0.1 | 38.098 | 122.029 | 3      | 32      |   |     |
|    |         | 178 | E00-CA18  | 2000-07 | 38.14 | 122.04 | 5  | 90     | 0.1   | E00-CA18  | 14JUL00  | 5       | 90  | 0.1 | 38.135 | 122.041 | 5      | 53      |   |     |
|    |         | 179 | NOA-07-4  | 2000-07 | 38.14 | 122.08 | 6  | 100    | 0.2   | NOA-07-4  | 14JUL00  | 6       | 100 | 0.2 | 38.136 | 122.082 | 5      | 19      |   |     |
|    |         | 180 | NOA-07-1  | 2000-07 | 38.16 | 122.05 | 6  | 99     | 0.2   | NOA-07-1  | 14JUL00  | 6       | 99  | 0.2 | 38.159 | 122.047 | 5      | 34      |   |     |
|    |         | 181 | NOA-07-2  | 2001-08 | 38.15 | 122.07 | 11 | 99     | 0.2   | NOA-07-2  | 26AUG01  | 11      | 99  | 0.2 | 38.148 | 122.069 | 5      | 16      |   |     |
|    |         | 182 | NOA-04-1  | 2001-08 | 38.13 | 122.05 | 10 | 99     | 0.1   | NOA-04-1  | 26AUG01  | 10      | 99  | 0.1 | 38.133 | 122.053 | 6      | 63      |   |     |
|    |         | 183 | NOA-04-3  | 2001-08 | 38.11 | 122.03 | 12 | 88     | 0.2   | NOA-04-3  | 26AUG01  | 12      | 88  | 0.2 | 38.106 | 122.033 | 3      | 85      |   |     |
|    |         | 184 | DWR-D07-C | 2000-08 | 38.12 | 122.04 |    | 100    | 0.5   | DWR-D07-C | 17AUG00  |         | 100 | 0.5 | 38.118 | 122.041 | 4      | 53      |   |     |
|    |         | 185 | DWR-D07-C | 2000-09 | 38.12 | 122.04 |    | 100    | 0.5   | DWR-D07-C | 14SEP00  |         | 100 | 0.5 | 38.118 | 122.041 | 4      | 51      |   |     |
|    |         | 186 | DWR-D07-C | 2000-07 | 38.12 | 122.04 |    | 100    | 0.4   | DWR-D07-C | 18JUL00  |         | 100 | 0.4 | 38.118 | 122.041 | 4      | 93      |   |     |
|    |         | 187 | NOA-03-2  | 2001-08 | 38.07 | 121.93 | 6  | 97     | 0.1   | NOA-03-2  | 28AUG01  | 6       | 97  | 0.1 | 38.067 | 121.933 | 6      | 20      |   |     |
|    |         | 188 | RMP-BF21  | 2003-08 | 38.12 | 122.04 |    | 99     | 2     | 0.1       | RMP-BF21 | 18AUG03 |     | 2   | 99     | 0.1     | 38.116 | 122.040 | 7 | 202 |
|    |         | 189 | DWR-D07-C | 2007-07 | 38.12 | 122.04 |    | 23     | 0.3   | DWR-D07-C | 16JUL07  |         | 23  | 0.3 | 38.118 | 122.041 | 4      | 490     |   |     |
|    |         | 190 | DWR-D07-C | 2007-08 | 38.12 | 122.04 |    | 26     | 0.4   | DWR-D07-C | 13AUG07  |         | 26  | 0.4 | 38.118 | 122.041 | 6      | 591     |   |     |
|    |         | 191 | DWR-D07-C | 2008-07 | 38.12 | 122.04 |    |        |       | DWR-D07-C | 14JUL08  |         |     |     | 38.118 | 122.041 | 7      | 981     |   |     |
|    |         | 192 | DWR-D07-C | 2000-10 | 38.12 | 122.04 |    | 100    | 0.5   | DWR-D07-C | 11OCT00  |         | 100 | 0.5 | 38.118 | 122.041 | 5      | 219     |   |     |
|    |         | 193 | DWR-D07-C | 2007-10 | 38.12 | 122.04 |    | 100    | 0.4   | DWR-D07-C | 02OCT07  |         | 100 | 0.4 | 38.118 | 122.041 | 8      | 606     |   |     |
|    |         | 194 | DWR-D07-C | 2008-09 | 38.12 | 122.04 |    |        |       | DWR-D07-C | 15SEP08  |         |     |     | 38.118 | 122.041 | 11     | 875     |   |     |
|    |         | 195 | DWR-D07-C | 2007-09 | 38.12 | 122.04 |    | 37     | 0.3   | DWR-D07-C | 11SEP07  |         | 37  | 0.3 | 38.118 | 122.041 | 9      | 741     |   |     |
|    |         | 196 | DWR-D07-C | 2008-08 | 38.12 | 122.04 |    |        |       | DWR-D07-C | 13AUG08  |         |     |     | 38.118 | 122.041 | 8      | 1028    |   |     |
|    |         | 197 | NOA-05-3  | 2001-08 | 38.06 | 122.05 | 13 | 36     | 0.1   | NOA-05-3  | 28AUG01  | 13      | 36  | 0.1 | 38.057 | 122.045 | 9      | 594     |   |     |
|    |         | 198 | E00-CA42  | 2000-08 | 38.15 | 122.31 | 16 | 100    | 0.1   | E00-CA42  | 02AUG00  | 16      | 100 | 0.1 | 38.146 | 122.314 | 11     | 667     |   |     |
|    |         | 199 | NOA-06-5  | 2001-08 | 38.06 | 121.98 | 12 | 5      | 0.0   | NOA-06-5  | 31AUG01  | 12      | 5   | 0.0 | 38.057 | 121.978 | 1      | 1       |   |     |



Samples in Dendrogram Sequence

| G  | r       | o   | u         | p       | S     | I      | D   | S   | t   | n         | S       | D  | F   | L   | T      | A       |         |      |      |
|----|---------|-----|-----------|---------|-------|--------|-----|-----|-----|-----------|---------|----|-----|-----|--------|---------|---------|------|------|
|    |         |     |           |         |       |        |     |     |     |           |         |    |     |     |        |         |         |      |      |
| 4: | 155-233 | 200 | NOA-05-1  | 2000-07 | 38.07 | 122.10 | 12  | 100 | 0.1 | NOA-05-1  | 14JUL00 | 12 | 100 | 0.1 | 38.073 | 122.104 | 2       | 13   |      |
|    |         | 201 | DWR-D06-R | 2007-10 | 38.06 | 122.12 | 100 | 100 | 0.5 | DWR-D06-R | 02OCT07 | 1  | 100 | 0.5 | 38.056 | 122.117 | 1       | 28   |      |
|    |         | 202 | DWR-D06-R | 2000-07 | 38.06 | 122.12 | 60  | 60  | 0.5 | DWR-D06-R | 18JUL00 | 1  | 60  | 0.5 | 38.056 | 122.117 | 1       | 124  |      |
|    |         | 203 | E00-CA38  | 2000-08 | 38.21 | 122.57 | 22  | 5   | 0.1 | E00-CA38  | 04AUG00 | 22 | 5   | 0.1 | 38.205 | 122.573 | 5       | 27   |      |
|    |         | 204 | NOA-05-4  | 2001-08 | 38.07 | 121.96 | 10  | 27  | 0.1 | NOA-05-4  | 28AUG01 | 10 | 27  | 0.1 | 38.066 | 121.965 | 4       | 510  |      |
|    |         | 205 | NOA-07-3  | 2001-08 | 38.15 | 122.06 | 10  | 60  | 0.1 | NOA-07-3  | 26AUG01 | 10 | 60  | 0.1 | 38.147 | 122.059 | 4       | 575  |      |
|    |         | 206 | DWR-D06-R | 2007-07 | 38.06 | 122.12 | 51  | 51  | 0.2 | DWR-D06-R | 16JUL07 | 1  | 51  | 0.2 | 38.056 | 122.117 | 3       | 314  |      |
|    |         | 207 | RMP-BD41  | 1995-08 | 38.05 | 122.28 | 16  | 20  | 0.0 | RMP-BD41  | 25AUG95 | 16 | 6   | 20  | 0.0    | 38.053  | 122.285 | 5    | 278  |
|    |         | 208 | BAD-SD05  | 1995-08 | 38.05 | 122.10 | 6   | 0   | 0.0 | BAD-SD05  | 24AUG95 | 6  | 0   | 0.0 | 38.046 | 122.099 | 5       | 121  |      |
|    |         | 209 | NOA-06-4  | 2000-07 | 38.05 | 122.07 | 6   | 87  | 0.1 | NOA-06-4  | 13JUL00 | 6  | 87  | 0.1 | 38.054 | 122.069 | 3       | 378  |      |
|    |         | 210 | NOA-07-5  | 2001-08 | 38.12 | 122.07 | 11  | 100 | 0.2 | NOA-07-5  | 26AUG01 | 11 | 100 | 0.2 | 38.121 | 122.068 | 5       | 439  |      |
|    |         | 211 | DWR-D06-R | 2000-10 | 38.06 | 122.12 | 67  | 67  | 0.5 | DWR-D06-R | 11OCT00 | 1  | 67  | 0.5 | 38.056 | 122.117 | 5       | 465  |      |
|    |         | 212 | E00-CA39  | 2000-08 | 38.17 | 122.53 | 23  | 55  | 0.2 | E00-CA39  | 04AUG00 | 23 | 55  | 0.2 | 38.168 | 122.534 | 7       | 1167 |      |
|    |         | 213 | RMP-BD41  | 1998-07 | 38.05 | 122.28 | 0   | 15  | 0.0 | RMP-BD41  | 31JUL98 | 0  | 7   | 15  | 0.0    | 38.053  | 122.285 | 7    | 1090 |
|    |         | 214 | DWR-D06-R | 2007-08 | 38.06 | 122.12 | 26  | 26  | 0.5 | DWR-D06-R | 13AUG07 | 1  | 26  | 0.5 | 38.056 | 122.117 | 3       | 223  |      |
|    |         | 215 | E00-CA24  | 2000-07 | 38.14 | 122.28 | 15  | 75  | 0.2 | E00-CA24  | 15JUL00 | 15 | 75  | 0.2 | 38.140 | 122.282 | 6       | 715  |      |
|    |         | 216 | DWR-D06-R | 2008-07 | 38.06 | 122.12 | 1   | 1   | 0.0 | DWR-D06-R | 14JUL08 | 1  | 1   | 0.0 | 38.056 | 122.117 | 6       | 877  |      |
|    |         | 217 | RMP-BD15  | 1998-07 | 38.11 | 122.49 | 0   | 95  | 0.1 | RMP-BD15  | 31JUL98 | 0  | 4   | 95  | 0.1    | 38.111  | 122.486 | 4    | 199  |
|    |         | 218 | CIS-SOCR  | 2000-07 | 38.19 | 122.43 | 22  | 99  | 0.5 | CIS-SOCR  | 19JUL00 | 22 | 2   | 99  | 0.5    | 38.192  | 122.428 | 7    | 136  |
|    |         | 219 | RMP-BD15  | 1999-07 | 38.11 | 122.49 | 98  | 98  | 0.1 | RMP-BD15  | 23JUL99 | 1  | 4   | 98  | 0.1    | 38.111  | 122.486 | 6    | 241  |
|    |         | 220 | RMP-BD15  | 2000-07 | 38.11 | 122.49 | 98  | 98  | 0.1 | RMP-BD15  | 21JUL00 | 1  | 4   | 98  | 0.1    | 38.111  | 122.486 | 6    | 1446 |
|    |         | 221 | RMP-BD41  | 1996-08 | 38.05 | 122.28 | 24  | 13  | 0.0 | RMP-BD41  | 05AUG96 | 24 | 7   | 13  | 0.0    | 38.053  | 122.285 | 6    | 277  |
|    |         | 222 | RMP-BD15  | 1995-08 | 38.11 | 122.49 | 18  | 89  | 0.1 | RMP-BD15  | 25AUG95 | 18 | 4   | 89  | 0.1    | 38.111  | 122.486 | 7    | 9    |
|    |         | 223 | DWR-D06-R | 2007-09 | 38.06 | 122.12 | 33  | 33  | 0.4 | DWR-D06-R | 11SEP07 | 1  | 33  | 0.4 | 38.056 | 122.117 | 4       | 322  |      |
|    |         | 224 | DWR-D06-R | 2000-08 | 38.06 | 122.12 | 100 | 100 | 0.5 | DWR-D06-R | 17AUG00 | 1  | 100 | 0.5 | 38.056 | 122.117 | 2       | 217  |      |
|    |         | 225 | DWR-D06-R | 2000-09 | 38.06 | 122.12 | 100 | 100 | 0.5 | DWR-D06-R | 14SEP00 | 1  | 100 | 0.5 | 38.056 | 122.117 | 4       | 304  |      |
|    |         | 226 | RMP-BD15  | 1996-08 | 38.11 | 122.49 | 21  | 99  | 0.2 | RMP-BD15  | 05AUG96 | 21 | 4   | 99  | 0.2    | 38.111  | 122.486 | 3    | 363  |





| G | r | o | u | p | S | e | q | I | D | 269 | NOA-45-3 | 2001-08 | 37.48 | 122.11 | 29 | 92 | 0.2 | NOA-45-3 | 17AUG01  | 29      | 92 | 0.2 | 37.475 | 122.112 | 15     | 3673    |   |     |
|---|---|---|---|---|---|---|---|---|---|-----|----------|---------|-------|--------|----|----|-----|----------|----------|---------|----|-----|--------|---------|--------|---------|---|-----|
|   |   |   |   |   | S | t | n |   |   | 270 | NOA-46-4 | 2000-07 | 37.95 | 122.38 | 25 | 91 | 0.2 | NOA-46-4 | 21JUL00  | 25      | 91 | 0.2 | 37.953 | 122.384 | 12     | 655     |   |     |
|   |   |   |   |   | S | t | n |   |   | 271 | E00-CA17 | 2000-07 | 37.87 | 122.32 | 28 | 97 | 0.2 | E00-CA17 | 21JUL00  | 28      | 97 | 0.2 | 37.868 | 122.318 | 25     | 881     |   |     |
|   |   |   |   |   | S | t | n |   |   | 272 | E00-CA30 | 2000-07 | 38.03 | 122.33 | 22 | 95 | 0.1 | E00-CA30 | 16JUL00  | 22      | 95 | 0.1 | 38.027 | 122.334 | 13     | 385     |   |     |
|   |   |   |   |   | S | t | n |   |   | 273 | E00-CA47 | 2000-08 | 38.04 | 122.47 | 21 | 98 | 0.2 | E00-CA47 | 03AUG00  | 21      | 98 | 0.2 | 38.039 | 122.472 | 14     | 995     |   |     |
|   |   |   |   |   | S | t | n |   |   | 274 | RMP-BD22 | 2000-07 | 38.05 | 122.42 | 22 | 88 | 0.1 | RMP-BD22 | 18JUL00  | 22      | 88 | 0.1 | 38.049 | 122.421 | 15     | 231     |   |     |
|   |   |   |   |   | S | t | n |   |   | 275 | E00-CA26 | 2000-07 | 38.09 | 122.40 | 20 | 94 | 0.1 | E00-CA26 | 19JUL00  | 20      | 94 | 0.1 | 38.086 | 122.396 | 12     | 1285    |   |     |
|   |   |   |   |   | S | t | n |   |   | 276 | E00-CA31 | 2000-07 | 37.96 | 122.47 | 25 | 96 | 0.2 | E00-CA31 | 19JUL00  | 25      | 96 | 0.2 | 37.962 | 122.468 | 11     | 199     |   |     |
|   |   |   |   |   | S | t | n |   |   | 277 | NOA-45-4 | 2001-08 | 37.57 | 122.11 | 32 | 93 | 0.1 | NOA-45-4 | 15AUG01  | 32      | 93 | 0.1 | 37.568 | 122.109 | 13     | 794     |   |     |
|   |   |   |   |   | S | t | n |   |   | 278 | NOA-43-2 | 2001-08 | 37.46 | 122.04 | 24 | 93 | 0.1 | NOA-43-2 | 17AUG01  | 24      | 93 | 0.1 | 37.461 | 122.042 | 6      | 808     |   |     |
|   |   |   |   |   | S | t | n |   |   | 279 | NOA-14-3 | 2001-08 | 38.10 | 122.45 | 26 | 85 | 0.1 | NOA-14-3 | 10AUG01  | 26      | 85 | 0.1 | 38.102 | 122.453 | 13     | 233     |   |     |
|   |   |   |   |   | S | t | n |   |   | 280 | NOA-09-3 | 2001-08 | 38.07 | 122.25 | 22 | 82 | 0.1 | NOA-09-3 | 24AUG01  | 22      | 82 | 0.1 | 38.070 | 122.249 | 12     | 538     |   |     |
|   |   |   |   |   | S | t | n |   |   | 281 | NOA-11-2 | 2001-08 | 38.09 | 122.47 | 26 | 98 | 0.1 | NOA-11-2 | 22AUG01  | 26      | 98 | 0.1 | 38.089 | 122.473 | 10     | 864     |   |     |
|   |   |   |   |   | S | t | n |   |   | 282 | NOA-41-3 | 2001-08 | 37.48 | 122.08 | 29 | 97 | 0.1 | NOA-41-3 | 21AUG01  | 29      | 97 | 0.1 | 37.476 | 122.080 | 9      | 781     |   |     |
|   |   |   |   |   | S | t | n |   |   | 283 | NOA-41-2 | 2001-08 | 37.48 | 122.09 | 28 | 97 | 0.1 | NOA-41-2 | 21AUG01  | 28      | 97 | 0.1 | 37.480 | 122.094 | 10     | 276     |   |     |
|   |   |   |   |   | S | t | n |   |   | 284 | NOA-08-1 | 2000-07 | 38.07 | 122.24 | 17 | 77 | 0.1 | NOA-08-1 | 15JUL00  | 17      | 77 | 0.1 | 38.070 | 122.242 | 9      | 806     |   |     |
|   |   |   |   |   | S | t | n |   |   | 285 | NOA-06-3 | 2001-08 | 38.05 | 122.12 | 13 | 83 | 0.1 | NOA-06-3 | 24AUG01  | 13      | 83 | 0.1 | 38.051 | 122.119 | 3      | 557     |   |     |
|   |   |   |   |   | S | t | n |   |   | 286 | NOA-14-1 | 2000-07 | 38.15 | 122.53 | 22 | 96 | 0.1 | NOA-14-1 | 18JUL00  | 22      | 96 | 0.1 | 38.146 | 122.527 | 6      | 269     |   |     |
|   |   |   |   |   | S | t | n |   |   | 287 | NOA-14-2 | 2001-08 | 38.15 | 122.53 | 27 | 97 | 0.1 | NOA-14-2 | 10AUG01  | 27      | 97 | 0.1 | 38.148 | 122.533 | 5      | 118     |   |     |
|   |   |   |   |   | S | t | n |   |   | 288 | NOA-09-1 | 2001-08 | 38.11 | 122.28 | 21 | 96 | 0.1 | NOA-09-1 | 24AUG01  | 21      | 96 | 0.1 | 38.113 | 122.278 | 6      | 39      |   |     |
|   |   |   |   |   | S | t | n |   |   | 289 | NOA-06-2 | 2001-08 | 38.06 | 122.11 | 12 | 28 | 0.1 | NOA-06-2 | 24AUG01  | 12      | 28 | 0.1 | 38.062 | 122.110 | 6      | 191     |   |     |
|   |   |   |   |   | S | t | n |   |   | 290 | R94-SF03 | 1994-09 | 38.11 | 122.33 | 38 | 99 | 2   | 0.1      | R94-SF03 | 08SEP94 | 38 | 2   | 99     | 0.1     | 38.111 | 122.329 | 8 | 105 |
|   |   |   |   |   | S | t | n |   |   | 291 | E00-CA22 | 2000-07 | 38.11 | 122.27 | 15 | 95 | 0.2 | E00-CA22 | 15JUL00  | 15      | 95 | 0.2 | 38.106 | 122.270 | 10     | 2050    |   |     |
|   |   |   |   |   | S | t | n |   |   | 292 | RMP-BA21 | 1995-08 | 37.49 | 122.09 | 23 | 98 | 5   | 0.1      | RMP-BA21 | 29AUG95 | 23 | 5   | 98     | 0.1     | 37.493 | 122.087 | 9 | 744 |
|   |   |   |   |   | S | t | n |   |   | 293 | E00-CA43 | 2000-07 | 38.09 | 122.26 | 16 | 95 | 0.2 | E00-CA43 | 27JUL00  | 16      | 95 | 0.2 | 38.093 | 122.259 | 10     | 5583    |   |     |
|   |   |   |   |   | S | t | n |   |   | 294 | NOA-42-3 | 2000-08 | 37.47 | 122.06 | 25 | 99 | 0.1 | NOA-42-3 | 01AUG00  | 25      | 99 | 0.1 | 37.473 | 122.058 | 12     | 158     |   |     |
|   |   |   |   |   | S | t | n |   |   | 295 | E00-CA27 | 2000-07 | 38.09 | 122.35 | 20 | 97 | 0.1 | E00-CA27 | 19JUL00  | 20      | 97 | 0.1 | 38.095 | 122.352 | 9      | 349     |   |     |

| G          | S   | I                 | D             | S         | S  | D   | F        | L          | T       | A  |     |        |         |        |         |    |      |
|------------|-----|-------------------|---------------|-----------|----|-----|----------|------------|---------|----|-----|--------|---------|--------|---------|----|------|
| o          | e   | D                 |               | t         | n  | e   | i        | o          | a       | b  |     |        |         |        |         |    |      |
| u          | q   |                   |               | n         |    | p   | n        | n          | x       | u  |     |        |         |        |         |    |      |
| p          |     |                   |               |           |    |     | c        | g          | a       | n  |     |        |         |        |         |    |      |
| 6: 249-319 | 296 | NOA-11-5          | 2001-08 38.08 | 122.32 25 | 95 | 0.1 | NOA-11-5 | 24AUG01    | 25      | 95 | 0.1 | 38.076 | 122.316 | 12     | 92      |    |      |
|            | 297 | RMP-BA21          | 1994-08 37.49 | 122.09 31 | 92 | 4   | 0.1      | RMP-BA21   | 29AUG94 | 31 | 4   | 92     | 0.1     | 37.493 | 122.087 | 13 | 366  |
|            | 298 | RMP-BA21          | 1998-08 37.49 | 122.09 19 | 97 | 6   | 0.1      | RMP-BA21   | 04AUG98 | 19 | 6   | 97     | 0.1     | 37.493 | 122.087 | 12 | 2886 |
|            | 299 | RMP-BA21          | 1997-08 37.49 | 122.09 28 | 91 | 6   | 0.1      | RMP-BA21   | 12AUG97 | 28 | 6   | 91     | 0.1     | 37.493 | 122.087 | 13 | 761  |
|            | 300 | RMP-BA21          | 1996-08 37.49 | 122.09 22 | 97 | 3   | 0.1      | RMP-BA21   | 01AUG96 | 22 | 3   | 97     | 0.1     | 37.493 | 122.087 | 11 | 466  |
|            | 301 | RMP-BA21          | 1999-07 37.49 | 122.09    | 98 | 5   | 0.1      | RMP-BA21   | 23JUL99 |    | 5   | 98     | 0.1     | 37.493 | 122.087 | 16 | 397  |
|            | 302 | DWR-D06-R         | 2008-09 38.06 | 122.12    |    |     |          | DWR-D06-R  | 15SEP08 |    |     |        |         | 38.056 | 122.117 | 8  | 1258 |
|            | 303 | RMP-BD15          | 1997-08 38.11 | 122.49 26 | 96 | 4   | 0.2      | RMP-BD15   | 08AUG97 | 26 | 4   | 96     | 0.2     | 38.111 | 122.486 | 3  | 2144 |
|            | 304 | DWR-D06-R         | 2008-08 38.06 | 122.12    |    |     |          | DWR-D06-R  | 13AUG08 |    |     |        |         | 38.056 | 122.117 | 5  | 669  |
|            | 305 | CIS-PET           | 2000-07 38.15 | 122.53 22 | 99 | 4   | 0.6      | CIS-PET    | 18JUL00 | 22 | 4   | 99     | 0.6     | 38.147 | 122.529 | 7  | 868  |
|            | 306 | RMP-BD41          | 2000-07 38.05 | 122.28    | 20 | 7   | 0.1      | RMP-BD41   | 21JUL00 |    | 7   | 20     | 0.1     | 38.053 | 122.285 | 7  | 1535 |
|            | 307 | RMP-BD41          | 1994-08 38.05 | 122.28 24 | 16 | 6   | 0.0      | RMP-BD41   | 26AUG94 | 24 | 6   | 16     | 0.0     | 38.053 | 122.285 | 8  | 473  |
|            | 308 | E00-CA28          | 2000-08 38.01 | 122.44 21 | 93 |     |          | E00-CA28   | 16AUG00 | 21 |     |        |         | 38.005 | 122.445 | 14 | 1802 |
|            | 309 | RMP-BA21          | 2000-07 37.49 | 122.09    | 96 | 5   | 0.1      | RMP-BA21   | 25JUL00 |    | 5   | 96     | 0.1     | 37.493 | 122.087 | 12 | 1005 |
|            | 310 | RMP-BB15          | 1996-08 37.62 | 122.28 28 | 54 | 12  | 0.1      | RMP-BB15   | 01AUG96 | 28 | 12  | 54     | 0.1     | 37.617 | 122.283 | 19 | 261  |
|            | 311 | RMP-BB15          | 1995-08 37.62 | 122.28 26 | 66 | 11  | 0.1      | RMP-BB15   | 29AUG95 | 26 | 11  | 66     | 0.1     | 37.617 | 122.283 | 21 | 310  |
|            | 312 | DWR-D41A-C2000-08 | 38.02         | 122.36    | 50 |     |          | DWR-D41A-C | 17AUG00 |    |     |        |         | 38.016 | 122.364 | 9  | 1173 |
|            | 313 | DWR-D41A-C2000-09 | 38.02         | 122.36    | 50 |     |          | DWR-D41A-C | 14SEP00 |    |     |        |         | 38.016 | 122.364 | 13 | 933  |
|            | 314 | DWR-D41A-C2000-10 | 38.02         | 122.36    | 33 |     |          | DWR-D41A-C | 11OCT00 |    |     |        |         | 38.016 | 122.364 | 15 | 1140 |
|            | 315 | DWR-D41A-C2000-07 | 38.02         | 122.36    | 45 |     |          | DWR-D41A-C | 18JUL00 |    |     |        |         | 38.016 | 122.364 | 13 | 738  |
|            | 316 | DWR-D41-C         | 2000-10 38.08 | 122.39    | 50 |     |          | DWR-D41-C  | 11OCT00 |    |     |        |         | 38.085 | 122.391 | 16 | 1631 |
|            | 317 | DWR-D41-C         | 2000-09 38.08 | 122.39    | 38 |     |          | DWR-D41-C  | 14SEP00 |    |     |        |         | 38.085 | 122.391 | 22 | 1915 |
|            | 318 | DWR-D41-C         | 2000-08 38.08 | 122.39    | 56 |     |          | DWR-D41-C  | 17AUG00 |    |     |        |         | 38.085 | 122.391 | 16 | 1728 |
|            | 319 | DWR-D41-C         | 2000-07 38.08 | 122.39    | 47 |     |          | DWR-D41-C  | 18JUL00 |    |     |        |         | 38.085 | 122.391 | 19 | 968  |



| G          | S                     | I               | D                      | S                  | D          | F        | L      | A               |
|------------|-----------------------|-----------------|------------------------|--------------------|------------|----------|--------|-----------------|
| r          | e                     | D               | t                      | a                  | e          | i        | T      | b               |
| o          | q                     |                 | n                      | l                  |            | n        | a      |                 |
| u          |                       |                 |                        |                    |            |          |        |                 |
| p          |                       |                 |                        |                    |            |          |        |                 |
| 7: 320-370 | 347 E00-CA07          | 2000-07 37.69   | 122.24 27 95           | 0.2 E00-CA07       | 28JUL00 27 | 95 0.2   | 37.688 | 122.242 11 567  |
|            | 348 NOA-39-2          | 2001-08 37.59   | 122.20 31 94           | 0.1 NOA-39-2       | 15AUG01 31 | 94 0.1   | 37.592 | 122.196 15 192  |
|            | 349 NOA-45-2          | 2001-08 37.51   | 122.19 31 99           | 0.2 NOA-45-2       | 15AUG01 31 | 99 0.2   | 37.514 | 122.190 19 335  |
|            | 350 NOA-36-4          | 2001-08 37.61   | 122.24 31 91           | 0.1 NOA-36-4       | 16AUG01 31 | 91 0.1   | 37.610 | 122.235 12 73   |
|            | 351 NOA-39-3          | 2001-08 37.53   | 122.14 31 96           | 0.1 NOA-39-3       | 15AUG01 31 | 96 0.1   | 37.527 | 122.137 13 169  |
|            | 352 NOA-38-2          | 2001-08 37.57   | 122.22 31 99           | 0.1 NOA-38-2       | 16AUG01 31 | 99 0.1   | 37.574 | 122.220 7 48    |
|            | 353 RMP-BA41          | 2003-08 37.56   | 122.21 71              | 2 0.1 RMP-BA41     | 22AUG03    | 2 71 0.1 | 37.559 | 122.211 29 295  |
|            | 354 E00-CA06          | 2000-07 37.62   | 122.33 28 90           | 0.2 E00-CA06       | 27JUL00 28 | 90 0.2   | 37.620 | 122.331 26 1889 |
|            | 355 E00-CA01          | 2000-07 37.72   | 122.37 29 98           | 0.1 E00-CA01       | 31JUL00 29 | 98 0.1   | 37.715 | 122.368 23 201  |
|            | 356 E00-CA05          | 2000-07 37.66   | 122.36 29 95           | 0.1 E00-CA05       | 27JUL00 29 | 95 0.1   | 37.657 | 122.356 22 440  |
|            | 357 NOA-30-3          | 2000-07 37.74   | 122.29 29 60           | 0.1 NOA-30-3       | 28JUL00 29 | 60 0.1   | 37.736 | 122.290 16 123  |
|            | 358 DWR-D41A-C2007-07 | 38.02 122.36 21 | 0.5 DWR-D41A-C 16JUL07 |                    |            | 21 0.5   | 38.016 | 122.364 10 1551 |
|            | 359 DWR-D41A-C2007-09 | 38.02 122.36 36 | 0.3 DWR-D41A-C 11SEP07 |                    |            | 36 0.3   | 38.016 | 122.364 8 762   |
|            | 360 DWR-D41A-C2007-08 | 38.02 122.36 27 | 0.4 DWR-D41A-C 13AUG07 |                    |            | 27 0.4   | 38.016 | 122.364 8 384   |
|            | 361 DWR-D41A-C2007-10 | 38.02 122.36 33 | 0.4 DWR-D41A-C 02OCT07 |                    |            | 33 0.4   | 38.016 | 122.364 5 79    |
|            | 362 DWR-D41A-C2008-08 | 38.02 122.36    |                        | DWR-D41A-C 13AUG08 |            |          | 38.016 | 122.364 12 176  |
|            | 363 DWR-D41A-C2008-07 | 38.02 122.36    |                        | DWR-D41A-C 14JUL08 |            |          | 38.016 | 122.364 17 1064 |
|            | 364 DWR-D41-C 2007-08 | 38.08 122.39 36 | 0.4 DWR-D41-C 13AUG07  |                    |            | 36 0.4   | 38.085 | 122.391 17 1370 |
|            | 365 DWR-D41-C 2007-07 | 38.08 122.39 35 | 0.3 DWR-D41-C 16JUL07  |                    |            | 35 0.3   | 38.085 | 122.391 15 2399 |
|            | 366 DWR-D41A-C2008-09 | 38.02 122.36    |                        | DWR-D41A-C 15SEP08 |            |          | 38.016 | 122.364 18 222  |
|            | 367 DWR-D41-C 2007-09 | 38.08 122.39 47 | 0.3 DWR-D41-C 11SEP07  |                    |            | 47 0.3   | 38.085 | 122.391 21 1390 |
|            | 368 DWR-D41-C 2008-09 | 38.08 122.39    |                        | DWR-D41-C 15SEP08  |            |          | 38.085 | 122.391 21 227  |
|            | 369 DWR-D41-C 2008-08 | 38.08 122.39    |                        | DWR-D41-C 13AUG08  |            |          | 38.085 | 122.391 20 783  |
|            | 370 DWR-D41-C 2008-07 | 38.08 122.39    |                        | DWR-D41-C 14JUL08  |            |          | 38.085 | 122.391 21 2576 |

| G          | S   | I         | D       | S     | S      | D  | F  | L   | A         |         |    |    |     |        |         |    |      |
|------------|-----|-----------|---------|-------|--------|----|----|-----|-----------|---------|----|----|-----|--------|---------|----|------|
| r          | e   | D         | n       | a     | t      | e  | i  | o   | b         |         |    |    |     |        |         |    |      |
| o          | q   |           |         | I     | h      | s  | n  | a   | u         |         |    |    |     |        |         |    |      |
| u          |     |           |         |       | s      | c  |    | x   | n         |         |    |    |     |        |         |    |      |
| p          |     |           |         |       |        |    |    | t   |           |         |    |    |     |        |         |    |      |
| 8: 371-431 | 371 | NOA-32-3  | 2000-08 | 37.78 | 122.24 | 29 | 92 | 0.4 | NOA-32-3  | 02AUG00 | 29 | 92 | 0.4 | 37.779 | 122.244 | 18 | 498  |
|            | 372 | NOA-29-2  | 2000-07 | 37.78 | 122.30 |    | 94 | 0.2 | NOA-29-2  | 31JUL00 |    | 94 | 0.2 | 37.777 | 122.300 | 19 | 178  |
|            | 373 | NOA-33-4  | 2001-08 | 37.72 | 122.38 | 32 | 91 | 0.2 | NOA-33-4  | 19AUG01 | 32 | 91 | 0.2 | 37.721 | 122.381 | 17 | 359  |
|            | 374 | NOA-33-5  | 2000-07 | 37.70 | 122.38 | 30 | 98 | 0.1 | NOA-33-5  | 31JUL00 | 30 | 98 | 0.1 | 37.702 | 122.377 | 18 | 386  |
|            | 375 | NOA-29-3  | 2001-08 | 37.78 | 122.30 | 31 | 94 | 0.2 | NOA-29-3  | 12AUG01 | 31 | 94 | 0.2 | 37.776 | 122.300 | 30 | 1126 |
|            | 376 | NOA-47-5A | 2001-08 | 37.84 | 122.31 | 31 | 92 | 0.1 | NOA-47-5A | 08AUG01 | 31 | 92 | 0.1 | 37.839 | 122.314 | 21 | 591  |
|            | 377 | NOA-20-2  | 2001-08 | 37.90 | 122.34 | 27 | 89 | 0.1 | NOA-20-2  | 08AUG01 | 27 | 89 | 0.1 | 37.898 | 122.335 | 30 | 1505 |
|            | 378 | NOA-31-5  | 2001-08 | 37.80 | 122.33 | 31 | 92 | 0.1 | NOA-31-5  | 12AUG01 | 31 | 92 | 0.1 | 37.801 | 122.332 | 28 | 550  |
|            | 379 | NOA-47-1  | 2001-08 | 37.88 | 122.50 | 32 | 99 | 0.2 | NOA-47-1  | 09AUG01 | 32 | 99 | 0.2 | 37.880 | 122.504 | 19 | 639  |
|            | 380 | NOA-23-1  | 2001-08 | 37.88 | 122.49 | 32 | 97 | 0.1 | NOA-23-1  | 09AUG01 | 32 | 97 | 0.1 | 37.883 | 122.486 | 22 | 610  |
|            | 381 | NOA-47-2  | 2001-08 | 37.88 | 122.51 | 32 | 94 | 0.1 | NOA-47-2  | 09AUG01 | 32 | 94 | 0.1 | 37.879 | 122.505 | 22 | 826  |
|            | 382 | NOA-29-1  | 2001-08 | 37.78 | 122.31 | 31 | 98 | 0.2 | NOA-29-1  | 12AUG01 | 31 | 98 | 0.2 | 37.779 | 122.306 | 20 | 968  |
|            | 383 | NOA-23-3  | 2001-08 | 37.87 | 122.48 | 32 | 97 | 0.1 | NOA-23-3  | 09AUG01 | 32 | 97 | 0.1 | 37.870 | 122.484 | 27 | 2678 |
|            | 384 | NOA-33-6  | 2001-08 | 37.72 | 122.37 | 32 | 98 | 0.1 | NOA-33-6  | 19AUG01 | 32 | 98 | 0.1 | 37.718 | 122.374 | 23 | 345  |
|            | 385 | NOA-27-2  | 2001-08 | 37.72 | 122.36 | 32 | 87 | 0.1 | NOA-27-2  | 19AUG01 | 32 | 87 | 0.1 | 37.718 | 122.361 | 25 | 652  |
|            | 386 | NOA-17-3  | 2001-08 | 37.92 | 122.39 | 31 | 72 | 0.1 | NOA-17-3  | 11AUG01 | 31 | 72 | 0.1 | 37.922 | 122.394 | 26 | 765  |
|            | 387 | NOA-32-5  | 2001-08 | 37.75 | 122.23 | 31 | 54 | 0.1 | NOA-32-5  | 08AUG01 | 31 | 54 | 0.1 | 37.751 | 122.226 | 28 | 560  |
|            | 388 | NOA-32-4  | 2001-08 | 37.78 | 122.24 | 32 | 64 | 0.2 | NOA-32-4  | 23AUG01 | 32 | 64 | 0.2 | 37.776 | 122.243 | 27 | 835  |
|            | 389 | NOA-30-2  | 2001-08 | 37.76 | 122.28 | 31 | 39 | 0.1 | NOA-30-2  | 13AUG01 | 31 | 39 | 0.1 | 37.759 | 122.283 | 21 | 1428 |
|            | 390 | NOA-34-2  | 2001-08 | 37.63 | 122.38 | 32 | 91 | 0.1 | NOA-34-2  | 16AUG01 | 32 | 91 | 0.1 | 37.633 | 122.376 | 18 | 295  |
|            | 391 | NOA-27-3  | 2001-08 | 37.71 | 122.37 | 32 | 98 | 0.1 | NOA-27-3  | 19AUG01 | 32 | 98 | 0.1 | 37.712 | 122.372 | 14 | 152  |
|            | 392 | NOA-35-4  | 2001-08 | 37.63 | 122.31 | 31 | 93 | 0.1 | NOA-35-4  | 16AUG01 | 31 | 93 | 0.1 | 37.628 | 122.315 | 14 | 61   |
|            | 393 | NOA-30-4  | 2001-08 | 37.73 | 122.28 | 31 | 36 | 0.1 | NOA-30-4  | 13AUG01 | 31 | 36 | 0.1 | 37.729 | 122.278 | 18 | 163  |
|            | 394 | NOA-15-2  | 2001-08 | 37.94 | 122.47 | 30 | 99 | 0.1 | NOA-15-2  | 30AUG01 | 30 | 99 | 0.1 | 37.944 | 122.466 | 24 | 392  |
|            | 395 | NOA-35-1  | 2001-08 | 37.70 | 122.29 | 31 | 88 | 0.1 | NOA-35-1  | 19AUG01 | 31 | 88 | 0.1 | 37.698 | 122.291 | 20 | 312  |
|            | 396 | NOA-37-3  | 2001-08 | 37.55 | 122.20 | 31 | 72 | 0.1 | NOA-37-3  | 21AUG01 | 31 | 72 | 0.1 | 37.546 | 122.197 | 28 | 210  |
|            | 397 | NOA-37-2  | 2001-08 | 37.56 | 122.24 | 19 | 42 | 0.1 | NOA-37-2  | 16AUG01 | 19 | 42 | 0.1 | 37.562 | 122.239 | 23 | 919  |





Samples in Dendrogram Sequence

| G          | S            | I             | D         | S  | S            | D          | F      | L      | A          |      |
|------------|--------------|---------------|-----------|----|--------------|------------|--------|--------|------------|------|
| r          | e            | D             | n         | a  | t            | e          | i      | o      | b          |      |
| o          | q            |               |           | l  | i            | p          | n      | a      | u          |      |
| u          |              |               |           | d  | t            | h          | e      | n      | n          |      |
| p          |              |               |           | e  | e            | s          | s      | g      |            |      |
| 8: 371-431 | 425 NOA-22-5 | 2001-08 37.83 | 122.38 32 | 33 | 0.1 NOA-22-5 | 18AUG01 32 | 33 0.1 | 37.832 | 122.383 31 | 1201 |
|            | 426 NOA-20-3 | 2001-08 37.88 | 122.36 31 | 90 | 0.1 NOA-20-3 | 11AUG01 31 | 90 0.1 | 37.876 | 122.361 25 | 1985 |
|            | 427 NOA-26-3 | 2001-08 37.76 | 122.38 32 | 65 | 0.1 NOA-26-3 | 18AUG01 32 | 65 0.1 | 37.763 | 122.380 31 | 1109 |
|            | 428 NOA-28-3 | 2001-08 37.78 | 122.34 31 | 90 | 0.1 NOA-28-3 | 13AUG01 31 | 90 0.1 | 37.776 | 122.338 26 | 1741 |
|            | 429 NOA-31-2 | 2000-07 37.81 | 122.32 30 | 76 | 0.1 NOA-31-2 | 26JUL00 30 | 76 0.1 | 37.814 | 122.322 9  | 34   |
|            | 430 NOA-28-4 | 2000-07 37.76 | 122.36 30 | 43 | 0.1 NOA-28-4 | 24JUL00 30 | 43 0.1 | 37.765 | 122.361 27 | 180  |
|            | 431 NOA-22-3 | 2000-07 37.84 | 122.45 30 | 1  | 0.0 NOA-22-3 | 22JUL00 30 | 1 0.0  | 37.838 | 122.450 21 | 277  |
| 9: 432-501 | 432 NOA-19-2 | 2000-07 37.91 | 122.36 30 | 99 | 0.2 NOA-19-2 | 23JUL00 30 | 99 0.2 | 37.914 | 122.364 21 | 601  |
|            | 433 NOA-19-3 | 2000-07 37.91 | 122.36 30 | 99 | 0.1 NOA-19-3 | 23JUL00 30 | 99 0.1 | 37.909 | 122.361 24 | 1313 |
|            | 434 NOA-30-1 | 2001-07 37.80 | 122.34 30 | 68 | 0.1 NOA-30-1 | 25JUL01 30 | 68 0.1 | 37.797 | 122.339 17 | 749  |
|            | 435 NOA-18-1 | 2000-07 37.91 | 122.39 28 | 98 | 0.1 NOA-18-1 | 17JUL00 28 | 98 0.1 | 37.908 | 122.393 20 | 1976 |
|            | 436 NOA-20-6 | 2000-07 37.81 | 122.34 30 | 81 | 0.1 NOA-20-6 | 21JUL00 30 | 81 0.1 | 37.813 | 122.342 25 | 830  |
|            | 437 NOA-17-1 | 2000-07 37.95 | 122.42 28 | 50 | 0.1 NOA-17-1 | 21JUL00 28 | 50 0.1 | 37.952 | 122.423 21 | 4099 |
|            | 438 NOA-20-5 | 2000-07 37.85 | 122.34 29 | 72 | 0.1 NOA-20-5 | 21JUL00 29 | 72 0.1 | 37.854 | 122.338 26 | 1306 |
|            | 439 E00-CA37 | 2000-07 37.88 | 122.48 29 | 98 | 0.1 E00-CA37 | 20JUL00 29 | 98 0.1 | 37.876 | 122.478 17 | 1866 |
|            | 440 E00-CA49 | 2000-07 37.67 | 122.37 29 | 95 | 0.2 E00-CA49 | 25JUL00 29 | 95 0.2 | 37.675 | 122.369 33 | 2916 |
|            | 441 E00-CA33 | 2000-07 37.93 | 122.42 28 | 66 | 0.2 E00-CA33 | 17JUL00 28 | 66 0.2 | 37.934 | 122.419 27 | 2100 |
|            | 442 E00-CA32 | 2000-07 37.90 | 122.47 29 | 92 | 0.1 E00-CA32 | 20JUL00 29 | 92 0.1 | 37.905 | 122.466 27 | 1947 |
|            | 443 E00-CA03 | 2000-07 37.80 | 122.35 29 | 55 | 0.1 E00-CA03 | 26JUL00 29 | 55 0.1 | 37.802 | 122.345 22 | 384  |
|            | 444 E00-CA16 | 2000-07 37.86 | 122.49 29 | 98 | 0.2 E00-CA16 | 20JUL00 29 | 98 0.2 | 37.865 | 122.494 23 | 601  |
|            | 445 NOA-12-3 | 2001-08 37.97 | 122.42 30 | 41 | 0.1 NOA-12-3 | 29AUG01 30 | 41 0.1 | 37.970 | 122.417 29 | 2109 |

| G  | r       | o   | u         | p       | S     | I      | D    | S    | t     | n         | S        | D       | F    | L   | T      | A       |         |         |      |       |
|----|---------|-----|-----------|---------|-------|--------|------|------|-------|-----------|----------|---------|------|-----|--------|---------|---------|---------|------|-------|
|    |         |     |           |         | se    | q      |      |      |       |           | Dep      | Fin     |      | Lat |        |         |         |         |      |       |
| 9: | 432-501 | 446 | NOA-13-2  | 2001-08 | 38.03 | 122.35 | 28   | 83   | . 0.1 | NOA-13-2  | 10AUG01  | 28      | . 83 | 0.1 | 38.027 | 122.354 | 18      | 1945    |      |       |
|    |         | 447 | RMP-BD31  | 2003-08 | 38.02 | 122.36 | . 91 | 6    | 0.1   | RMP-BD31  | 20AUG03  | . 6     | 91   | 0.1 | 38.024 | 122.364 | 22      | 831     |      |       |
|    |         | 448 | NOA-28-5  | 2000-07 | 37.74 | 122.34 | . 42 | . 42 | 0.1   | NOA-28-5  | 31JUL00  | . .     | 42   | 0.1 | 37.737 | 122.341 | 35      | 224     |      |       |
|    |         | 449 | E00-CA35  | 2000-07 | 37.83 | 122.36 | 29   | 80   | . 0.1 | E00-CA35  | 23JUL00  | 29      | . 80 | 0.1 | 37.833 | 122.358 | 35      | 803     |      |       |
|    |         | 450 | E00-CA36  | 2000-07 | 37.81 | 122.35 | 29   | 89   | . 0.1 | E00-CA36  | 26JUL00  | 29      | . 89 | 0.1 | 37.810 | 122.347 | 29      | 923     |      |       |
|    |         | 451 | NOA-16-1  | 2000-07 | 37.92 | 122.45 | 29   | 58   | . 0.1 | NOA-16-1  | 17JUL00  | 29      | . 58 | 0.1 | 37.920 | 122.450 | 29      | 1897    |      |       |
|    |         | 452 | E00-CA34  | 2000-07 | 37.88 | 122.39 | 27   | 84   | . 0.1 | E00-CA34  | 21JUL00  | 27      | . 84 | 0.1 | 37.879 | 122.387 | 32      | 7765    |      |       |
|    |         | 453 | BAD-SF04  | 1995-08 | 37.75 | 122.37 | 31   | 91   | 12    | 0.1       | BAD-SF04 | 15AUG95 | 31   | 12  | 91     | 0.1     | 37.748  | 122.373 | 23   | 1593  |
|    |         | 454 | BAD-SF06  | 1995-08 | 37.75 | 122.37 | 31   | 95   | 13    | 0.1       | BAD-SF06 | 15AUG95 | 31   | 13  | 95     | 0.1     | 37.750  | 122.373 | 31   | 1999  |
|    |         | 455 | BAD-SF05  | 1995-08 | 37.75 | 122.37 | 31   | 82   | 10    | 0.1       | BAD-SF05 | 15AUG95 | 31   | 10  | 82     | 0.1     | 37.753  | 122.374 | 32   | 4055  |
|    |         | 456 | BAD-SF05  | 1997-08 | 37.75 | 122.37 | 34   | 65   | . .   | BAD-SF05  | 15AUG97  | 34      | . 65 | . . | 37.753 | 122.374 | 26      | 1027    |      |       |
|    |         | 457 | RMP-BB70  | 1997-08 | 37.67 | 122.33 | 31   | 64   | 10    | 0.1       | RMP-BB70 | 12AUG97 | 31   | 10  | 64     | 0.1     | 37.669  | 122.329 | 37   | 682   |
|    |         | 458 | NOA-35-3  | 2000-07 | 37.69 | 122.31 | 29   | 87   | . 0.1 | NOA-35-3  | 28JUL00  | 29      | . 87 | 0.1 | 37.689 | 122.309 | 26      | 622     |      |       |
|    |         | 459 | NOA-35-2  | 2000-07 | 37.69 | 122.35 | 30   | 85   | . 0.1 | NOA-35-2  | 27JUL00  | 30      | . 85 | 0.1 | 37.689 | 122.353 | 29      | 1056    |      |       |
|    |         | 460 | RMP-BB70  | 2000-07 | 37.67 | 122.33 | . 70 | 11   | 0.1   | RMP-BB70  | 24JUL00  | . .     | 11   | 70  | 0.1    | 37.669  | 122.329 | 23      | 1068 |       |
|    |         | 461 | RMP-BB70N | 2000-07 | 37.67 | 122.33 | 29   | 65   | . 0.1 | RMP-BB70N | 31JUL00  | 29      | . 65 | 0.1 | 37.669 | 122.329 | 27      | 2058    |      |       |
|    |         | 462 | RMP-BB70  | 1998-08 | 37.67 | 122.33 | 21   | 70   | 10    | 0.1       | RMP-BB70 | 03AUG98 | 21   | 10  | 70     | 0.1     | 37.669  | 122.329 | 34   | 2889  |
|    |         | 463 | RMP-BB70  | 1996-08 | 37.67 | 122.33 | 30   | 85   | 11    | 0.1       | RMP-BB70 | 01AUG96 | 30   | 11  | 85     | 0.1     | 37.669  | 122.329 | 41   | 3354  |
|    |         | 464 | RMP-BB70  | 1995-08 | 37.67 | 122.33 | 28   | 97   | 10    | 0.2       | RMP-BB70 | 28AUG95 | 28   | 10  | 97     | 0.2     | 37.669  | 122.329 | 33   | 2892  |
|    |         | 465 | BAD-SF06  | 1996-08 | 37.75 | 122.37 | 33   | 80   | 13    | 0.1       | BAD-SF06 | 13AUG96 | 33   | 13  | 80     | 0.1     | 37.750  | 122.373 | 22   | 777   |
|    |         | 466 | BAD-SF04  | 1996-08 | 37.75 | 122.37 | 33   | 73   | 12    | 0.1       | BAD-SF04 | 13AUG96 | 33   | 12  | 73     | 0.1     | 37.748  | 122.373 | 23   | 955   |
|    |         | 467 | BAD-SF06  | 1997-08 | 37.75 | 122.37 | 34   | 92   | . .   | BAD-SF06  | 15AUG97  | 34      | . 92 | . . | 37.750 | 122.373 | 31      | 593     |      |       |
|    |         | 468 | BAD-SF05  | 1996-08 | 37.75 | 122.37 | 33   | 59   | 11    | 0.1       | BAD-SF05 | 13AUG96 | 33   | 11  | 59     | 0.1     | 37.753  | 122.374 | 34   | 698   |
|    |         | 469 | BAD-SF04  | 1997-08 | 37.75 | 122.37 | 35   | 91   | . .   | BAD-SF04  | 15AUG97  | 35      | . 91 | . . | 37.748 | 122.373 | 37      | 2158    |      |       |
|    |         | 470 | BAD-MD06  | 1996-08 | 37.82 | 122.35 | 33   | 82   | 6     | 0.1       | BAD-MD06 | 14AUG96 | 33   | 6   | 82     | 0.1     | 37.816  | 122.347 | 36   | 346   |
|    |         | 471 | RMP-BC11  | 1996-08 | 37.82 | 122.35 | 31   | 61   | 7     | 0.1       | RMP-BC11 | 01AUG96 | 31   | 7   | 61     | 0.1     | 37.822  | 122.349 | 34   | 462   |
|    |         | 472 | BAD-MD06  | 1995-08 | 37.82 | 122.35 | 28   | 81   | 5     | 0.1       | BAD-MD06 | 16AUG95 | 28   | 5   | 81     | 0.1     | 37.816  | 122.347 | 34   | 13720 |

Samples in Dendrogram Sequence

| G          | S   | I       | S        | D  | F  | L   | A      |         |    |       |
|------------|-----|---------|----------|----|----|-----|--------|---------|----|-------|
| r          | e   | D       | t        | a  | i  | T   | b      |         |    |       |
| o          | q   |         | n        | e  | n  | o   | u      |         |    |       |
| u          |     |         |          | p  | s  | a   | n      |         |    |       |
| p          |     |         |          |    | c  | t   |        |         |    |       |
| 9: 432-501 | 473 | 1995-08 | BAD-MD05 | 11 | 90 | 0.1 | 37.815 | 122.349 | 35 | 17613 |
|            | 474 | 1995-08 | BAD-MD04 | 14 | 93 | 0.1 | 37.814 | 122.350 | 40 | 15748 |
|            | 475 | 1998-08 | RMP-BC11 | 6  | 78 | 0.1 | 37.822 | 122.349 | 32 | 6878  |
|            | 476 | 1995-08 | RMP-BC11 | 7  | 92 | 0.2 | 37.822 | 122.349 | 38 | 12760 |
|            | 477 | 1999-07 | RMP-BC11 | 6  | 64 | 0.1 | 37.822 | 122.349 | 31 | 589   |
|            | 478 | 2000-07 | RMP-BC11 | 6  | 77 | 0.1 | 37.822 | 122.349 | 38 | 927   |
|            | 479 | 1997-08 | BAD-MD06 | .  | 81 | .   | 37.816 | 122.347 | 47 | 3151  |
|            | 480 | 1997-08 | RMP-BC11 | 6  | 38 | 0.1 | 37.822 | 122.349 | 43 | 2057  |
|            | 481 | 1996-08 | BAD-MD04 | 13 | 84 | 0.1 | 37.814 | 122.350 | 34 | 2002  |
|            | 482 | 1996-08 | BAD-MD05 | 11 | 77 | 0.1 | 37.815 | 122.349 | 40 | 2407  |
|            | 483 | 1997-08 | BAD-MD05 | .  | 77 | .   | 37.815 | 122.349 | 46 | 3608  |
|            | 484 | 1997-08 | BAD-MD04 | .  | 70 | .   | 37.814 | 122.350 | 38 | 2742  |
|            | 485 | 1994-08 | RMP-BB15 | 12 | 57 | 0.1 | 37.617 | 122.283 | 20 | 304   |
|            | 486 | 1994-08 | RMP-BA41 | 3  | 78 | 0.1 | 37.559 | 122.211 | 26 | 87    |
|            | 487 | 2003-08 | RMP-BC11 | 7  | 70 | 0.1 | 37.822 | 122.349 | 48 | 350   |
|            | 488 | 1994-09 | BAD-SF04 | 12 | 55 | 0.1 | 37.748 | 122.373 | 35 | 783   |
|            | 489 | 1994-09 | BAD-SF06 | 13 | 57 | 0.1 | 37.750 | 122.373 | 37 | 1268  |
|            | 490 | 1994-08 | RMP-BB70 | 10 | 70 | 0.1 | 37.669 | 122.329 | 28 | 2064  |
|            | 491 | 1994-09 | BAD-SF05 | 12 | 46 | 0.1 | 37.753 | 122.374 | 50 | 2268  |
|            | 492 | 1994-09 | BAD-MD05 | 11 | 60 | 0.1 | 37.815 | 122.349 | 45 | 2594  |
|            | 493 | 1994-09 | BAD-MD04 | 13 | 51 | 0.1 | 37.814 | 122.350 | 49 | 4628  |
|            | 494 | 1994-09 | BAD-MD06 | 6  | 53 | 0.1 | 37.816 | 122.347 | 48 | 2638  |
|            | 495 | 1994-08 | RMP-BC11 | 6  | 65 | 0.1 | 37.822 | 122.349 | 49 | 635   |
|            | 496 | 2000-07 | RMP-BC21 | 12 | 33 | 0.1 | 37.831 | 122.478 | 38 | 288   |
|            | 497 | 1998-08 | RMP-BC21 | 12 | 26 | 0.1 | 37.831 | 122.478 | 40 | 327   |
|            | 498 | 1994-08 | RMP-BC21 | 12 | 55 | 0.1 | 37.831 | 122.478 | 33 | 503   |
|            | 499 | 1996-08 | RMP-BC21 | 5  | 41 | 0.1 | 37.831 | 122.478 | 59 | 2835  |

