**The ANOVA Procedure**

| Class Level Information | | |
|---|---|---|
| **Class** | **Levels** | **Values** |
| **LATITUDE_GROUP** | 18 | -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 |

| | |
|---|---|
| **Number of Observations Read** | 384343 |
| **Number of Observations Used** | 384343 |

**The ANOVA Procedure**

**Dependent Variable: DEPTH_RIMFLOOR_TOPOG   Average Elevation of Crater Rim (in km)**

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| Model | 17 | 115.97176 | 6.82187 | 139.88 | <.0001 |
| Error | 384325 | 18743.69500 | 0.04877 | | |
| Corrected Total | 384342 | 18859.66676 | | | |

| R-Square | Coeff Var | Root MSE | DEPTH_RIMFLOOR_TOPOG Mean |
|---|---|---|---|
| 0.006149 | 291.2018 | 0.220840 | 0.075838 |

| Source | DF | Anova SS | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| LATITUDE_GROUP | 17 | 115.9717621 | 6.8218684 | 139.88 | <.0001 |

# The ANOVA Procedure

## Duncan's Multiple Range Test for DEPTH_RIMFLOOR_TOPOG

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate

| Alpha | 0.05 |
|---|---|
| Error Degrees of Freedom | 384325 |
| Error Mean Square | 0.04877 |
| Harmonic Mean of Cell Sizes | 705.6669 |

Note: Cell sizes are not equal

| Number of Means | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Critical Range | .02304 | .02426 | .02508 | .02568 | .02616 | .02654 | .02687 | .02714 | .02739 | .02760 | .02779 | .02796 |

| 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|
| .02811 | .02825 | .02838 | .02850 | .02861 |

Means with the same letter are not significantly different.

| Duncan Grouping | Mean | N | LATITUDE_GROUP |
|---|---|---|---|
| A | 0.17977 | 44 | 8 |
| B | 0.08874 | 46156 | -2 |
| B | | | |
| B | 0.08562 | 30414 | 1 |
| B | | | |
| B | 0.08516 | 46503 | -3 |
| B | | | |
| B | 0.08371 | 32364 | 0 |
| B | | | |
| B | 0.08351 | 34576 | -4 |
| B | | | |
| B | 0.08255 | 40922 | -1 |
| B | | | |
| B | 0.07934 | 28990 | 2 |
| B | | | |
| B | 0.07873 | 18758 | -6 |
| B | | | |

**The ANOVA Procedure**

**Duncan's Multiple Range Test for DEPTH_RIMFLOOR_TOPOG**

Note: Cell sizes are not equal.

| Means with the same letter are not significantly different. | | | | |
|---|---|---|---|---|
| Duncan Grouping | | Mean | N | LATITUDE_GROUP |
| | B | 0.07715 | 13528 | -7 |
| | B | | | |
| | B | 0.07162 | 25392 | -5 |
| | B | | | |
| C | B | 0.06306 | 6983 | -8 |
| C | B | | | |
| C | B | 0.06151 | 23365 | 3 |
| C | | | | |
| C | D | 0.04242 | 631 | -9 |
| | D | | | |
| | D | 0.03544 | 14162 | 4 |
| | D | | | |
| | D | 0.02815 | 2780 | 7 |
| | D | | | |
| | D | 0.02109 | 7975 | 6 |
| | D | | | |
| | D | 0.01973 | 10800 | 5 |