

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
HEMISPHERE	2	0 1

Number of Observations Read	384343
Number of Observations Used	384343

The ANOVA Procedure

Dependent Variable: DIAM_CIRCLE_IMAGE Crater Diameter (in km)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	44732.57	44732.57	606.90	<.0001
Error	384341	28328293.15	73.71		
Corrected Total	384342	28373025.73			

R-Square	Coeff Var	Root MSE	DIAM_CIRCLE_IMAGE Mean
0.001577	241.3828	8.585228	3.556686

Source	DF	Anova SS	Mean Square	F Value	Pr > F
HEMISPHERE	1	44732.57046	44732.57046	606.90	<.0001

The ANOVA Procedure

Level of HEMISPHERE	N	DIAM_CIRCLE_IMAGE	
		Mean	Std Dev
0	233449	3.83096531	9.47716900
1	150894	3.13234787	6.98436108

The ANOVA Procedure

Class Level Information		
Class	Levels	Values
HEMISPHERE	2	0 1

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	1	22.11186	22.11186	451.15	<.0001
Error	384341	18837.55491	0.04901		
Corrected Total	384342	18859.66676			

R-Square	Coeff Var	Root MSE	DEPTH_RIMFLOOR_TOPOG Mean
0.001172	291.9239	0.221388	0.075838

Source	DF	Anova SS	Mean Square	F Value	Pr > F
HEMISPHERE	1	22.11185935	22.11185935	451.15	<.0001

The ANOVA Procedure

Level of HEMISPHERE	N	DEPTH_RIMFLOOR_TOPOG	
		Mean	Std Dev
0	233449	0.08193563	0.23190747
1	150894	0.06640317	0.20404722

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: DIAM_CIRCLE_IMAGE Crater Diameter (in km)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	124292.20	7311.31	99.47	<.0001
Error	384325	28248733.53	73.50		
Corrected Total	384342	28373025.73			

R-Square	Coeff Var	Root MSE	DIAM_CIRCLE_IMAGE Mean
0.004381	241.0486	8.573342	3.556686

Source	DF	Anova SS	Mean Square	F Value	Pr > F
LATITUDE_GROUP	17	124292.1958	7311.3056	99.47	<.0001

The ANOVA Procedure

Duncan's Multiple Range Test for DIAM_CIRCLE_IMAGE

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	73.5022
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	14	15
Critical Range	0.895	0.942	0.974	0.997	1.015	1.030	1.043	1.054	1.063	1.071	1.079	1.085	1.091	1.097

16	17	18
1.102	1.106	1.111

Means with the same letter are not significantly different.					
Duncan Grouping			Mean	N	LATITUDE_GROUP
	A		11.2684	44	8
	B		5.0076	18758	-6
	B				
	B		4.9270	631	-9
	B				
C	B		4.8263	13528	-7
C	B				
C	B	D	4.3694	6983	-8
C	B	D			
C	B	D	4.3176	25392	-5
C		D			
C	E	D	3.8681	34576	-4
	E	D			
F	E	D	3.4729	46156	-2
F	E	D			
F	E	D	3.4511	46503	-3
F	E	D			

The ANOVA Procedure

Duncan's Multiple Range Test for DIAM_CIRCLE_IMAGE

Note: Cell sizes are not equal

Means with the same letter are not significantly different.					
Duncan Grouping			Mean	N	LATITUDE_GROUP
F	E	D	3.3732	32364	0
F	E	D			
F	E	D	3.3559	40922	-1
F	E				
F	E		3.2558	30414	1
F	E				
F	E		3.1461	2780	7
F	E				
F	E		3.1058	28990	2
F	E				
F	E		3.0962	23365	3
F	E				
F	E		3.0014	14162	4
F					
F			2.7450	10800	5
F					
F			2.5939	7975	6

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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

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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

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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				

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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