

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
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

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			
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				

The ANOVA Procedure

Duncan's Multiple Range Test for DIAM_CIRCLE_IMAGE

Note: Cell sizes are not equal

15	16	17	18
1.097	1.102	1.106	1.111

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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		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