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Paper-CC9 (*Unit-II*)

Cartographic Techniques

Altimetric Frequency Graph or Curve

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Paper Name	***Cartographic Techniques***
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Objectives	***To understand the method of construction of Altimetric Frequency Graph & Curve***
Keywords	***Frequency, Spot heights , Contours, Elevation***

Altimetric Frequency Graph or Curve

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Introduction: Altimetric Frequency Garph or Curve involves the computation of the frequency of occurrence of heights above sea level and plotting it on the graph paper. Occurrence or frequency of heights from above sea level of an area may be counted by two methods:

1. Either spot height all over the map of an area may be counted,

2. The map may be covered up with a grid of small squares and the highest point in each square be noted. i) From an actual spot height and ii) by estimating from contours if no spot-heights fall in a square.

Percentage of frequency should be graphed along the vertical scale and the actual elevations, along the horizontal scale.

Method of plotting 'Altimetric frequency Garph' or 'Curve'

Example 1: Prepare a Altimetric frequency Graph or curve by Given Spot Hights in Table 1.

Table 1: Spot heights

Heights (in Meters)
105 120128 130 132 147 155 158 158 165
168 179 173 174 177 188 196 203 215 215
219 223 228 228 238 241 246 249 251 255
257 261 265 271 274 276 277 277 280 283
283 294 296 298 298 301 303 303 307 309
310 310 316 317 317 323 324 328 337 341
397 391 355 366 367 367 372 380 383 390
390 391 393 398 406 410 415 416 419 430
445 460 465 476 480 490 496 504 509 511
517 517 521 530 535 536 536 544 580 595

1. When spot heights given, First prepare a Altimetric frequency table (see table no. 1 & 2)

2. Draw a Line with appropriate scale like 10 cm long horizontal /x axis and 7 cm long vertical scale/ y axis(See figure 1)

3. Altitudinal heights represented through horizontal scale and percentage of frequency represented by vertical scale (Y axis).

4. Spot height categorised by 25 class interval with the altitudinal group of 101 - 125 to 126-150, …….. 575- 600, which mentioned in prepared frequency table no 2.

5. Vertical divided by 1 cm= 2 percent share of altitudinal frequency.

6. Plot the given class wise given point from table 2 on a graph paper or drawing sheet.

7. Finally, either you join the all points with scale like histogram and create Altimetric frequency Graph. Or you join all points with straight line like polygon , as Altimetric Frequency curve (see figure 1 A & B).

Table 2: Altimetric Frequency Table

Heights(meter)	Talley	Frequency (Cummulative no. of spot heights)	% of total frequency
101-125	II	2	2
126-150	𝍸 I	6	4
151-175	II	8	8
176-200	III	3	3
201-225	𝍸	5	5
226- 250	𝍸 I	6	6
251-275	𝍸 II	7	7
276-300	𝍸 IIII	10	10
301-325	𝍸 𝍸 II	12	12
326-350	IIII	4	4
351-375	𝍸 I	6	6
376-400	𝍸 II	7	7
401-425	𝍸	5	5
426-450	II	2	2
451-475	II	2	2

476-500	IIII	4	4
501-526	~~IIII~~ I	6	6
526-550	~~IIII~~	5	5
551-575	-	-	-
576-600	II	2	2
	Total	100	100

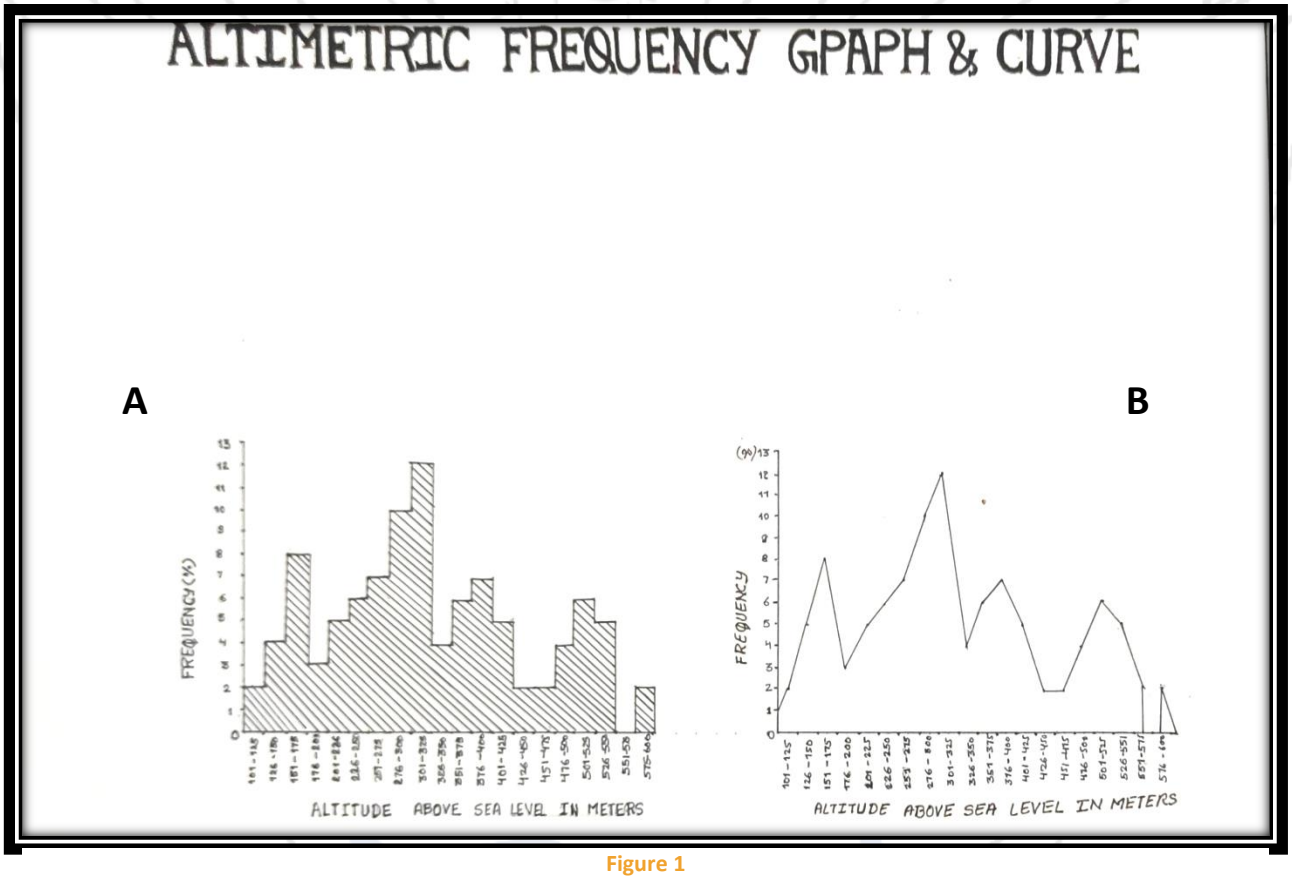

Figure 1

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