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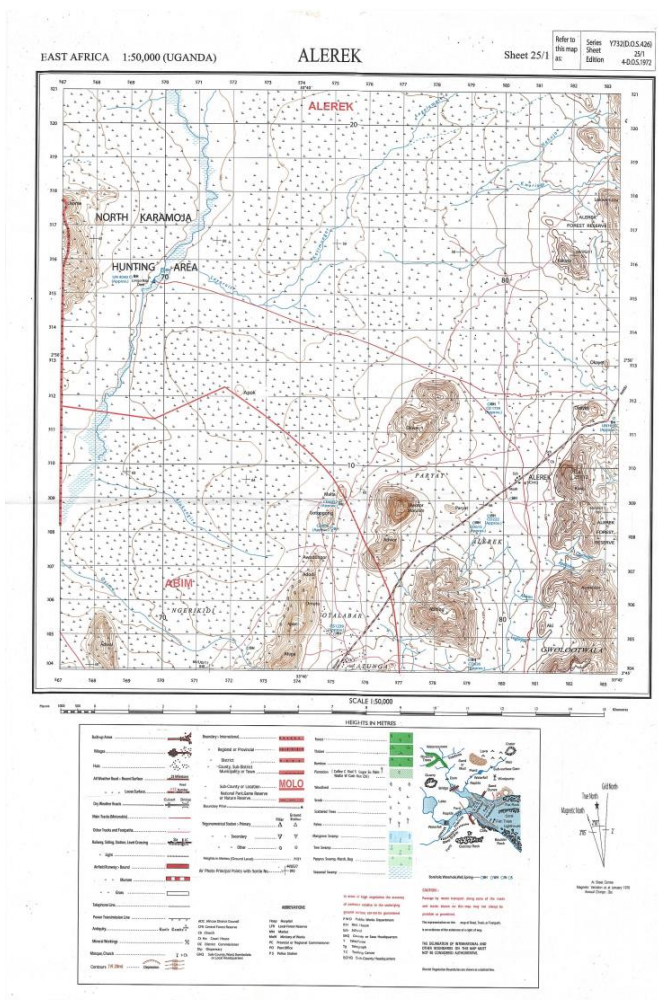


Physical geography –Map work question 1 part 3 of 3

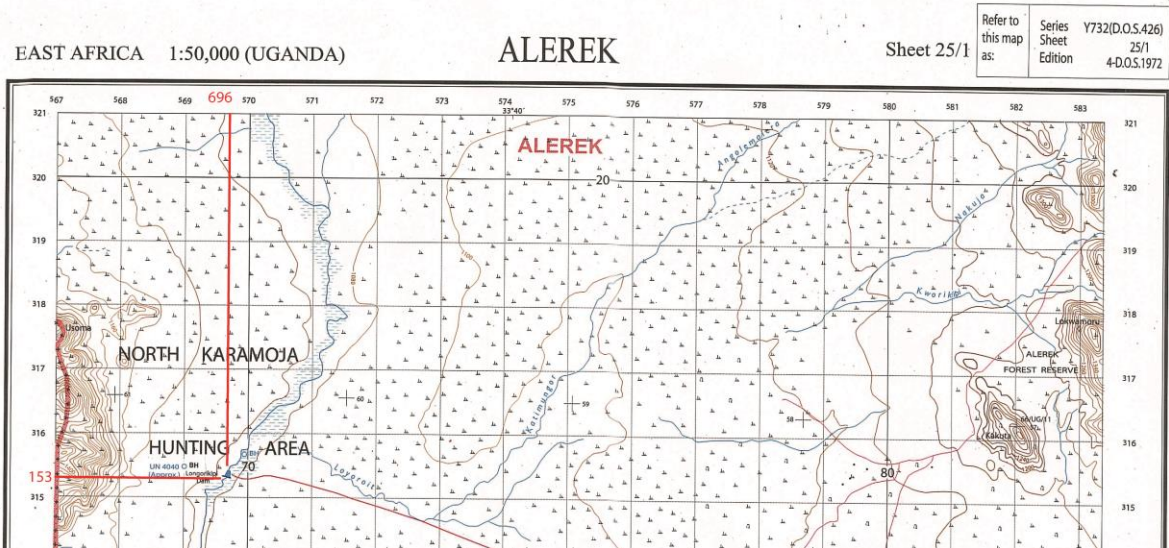
Example 9

COMPULSORY MAPWORK QUESTION:

Study the 1:50,000 (UGANDA) ALEREK map extract, part of Sheet 25/1, Series Y732, Edition 4-D.O.S and answer the questions that follow:

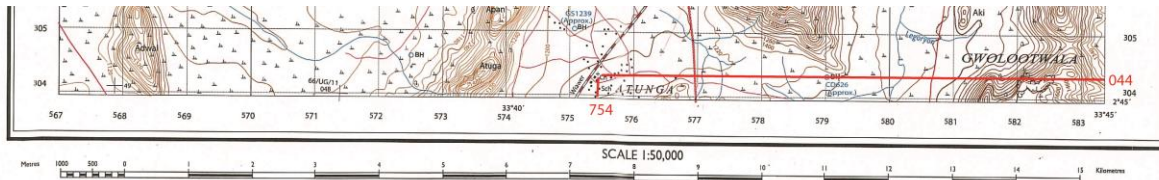


- (a) (i) Identify the man-made feature found at grid reference 696 153. (01mark)
Langorikipi Dam/Dam



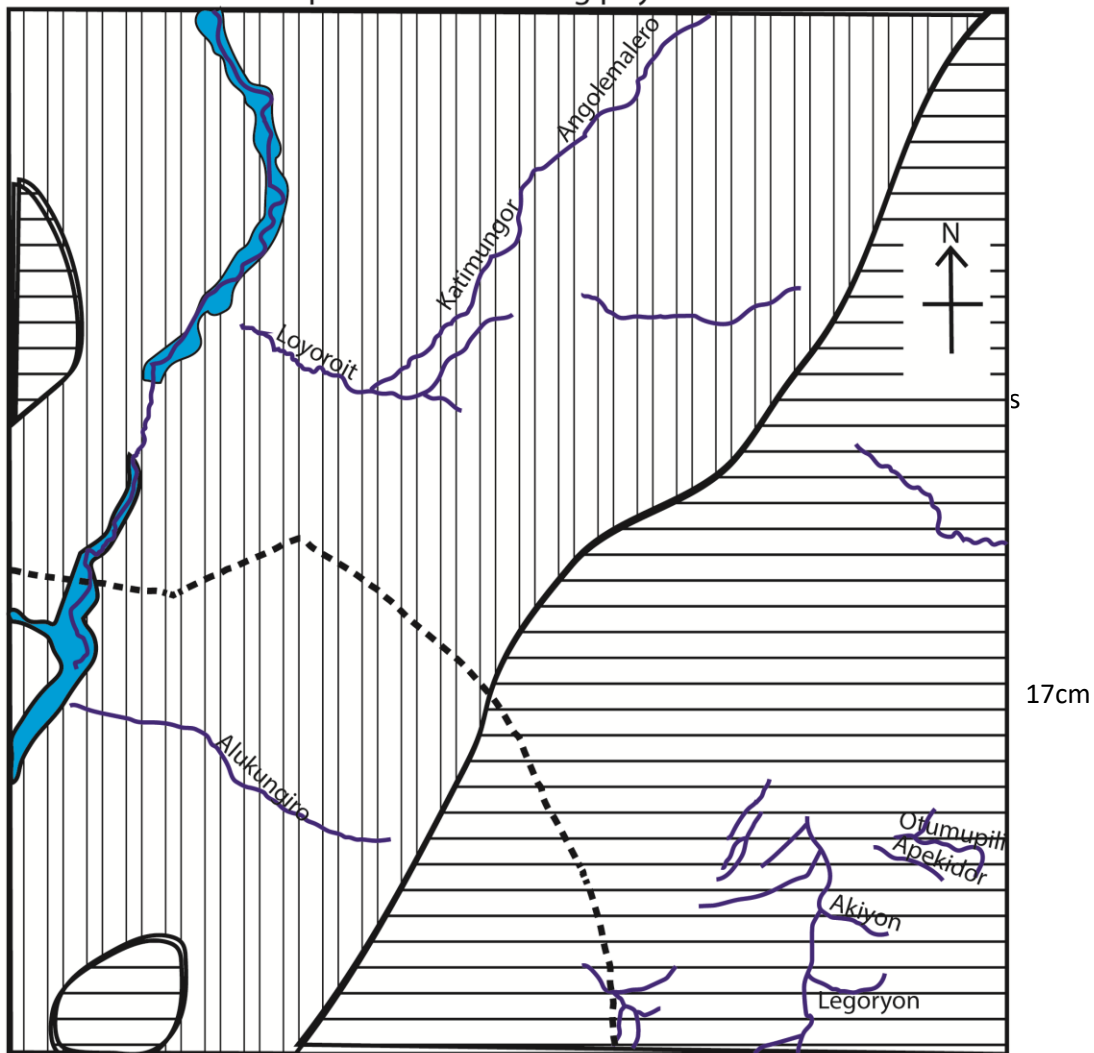
- (ii) State the grid reference of the Church to the North-West of Atunga (01 mark)

754043/755044



- (b) Reduce the area shown on the map extract by 50%. Draw its sketch-map and on it, mark and label:
- any **two** physiographic regions
 - season swamps
 - rivers,
 - all weather bound surface road. (07marks)

A reduced sketch map of Alerek showing physical and human features



Key	
	Low land /low lying and
	Upland/hilly area
	Season swamp
	All weather bound surface road
	Rivers

- Amplitude of relief is $1680 - 1080 = 600\text{m}$
- (d) (i) Giving reasons for your answer, identify the drainage pattern shown around Abiting highland in the South - East part of the map extract (02 marks)

Radial drainage pattern-rivers are radiating from Abiting hill
 Dendritic drainage pattern: because of the rivers around the highland have tributaries joining at acute angles e.g. South of Abiting hill.

- (ii) Account for the formation of the drainage pattern identified in (d)(i) above. (06 marks)

Radial drainage pattern because

- Hill/dome/highland which forms watershed.

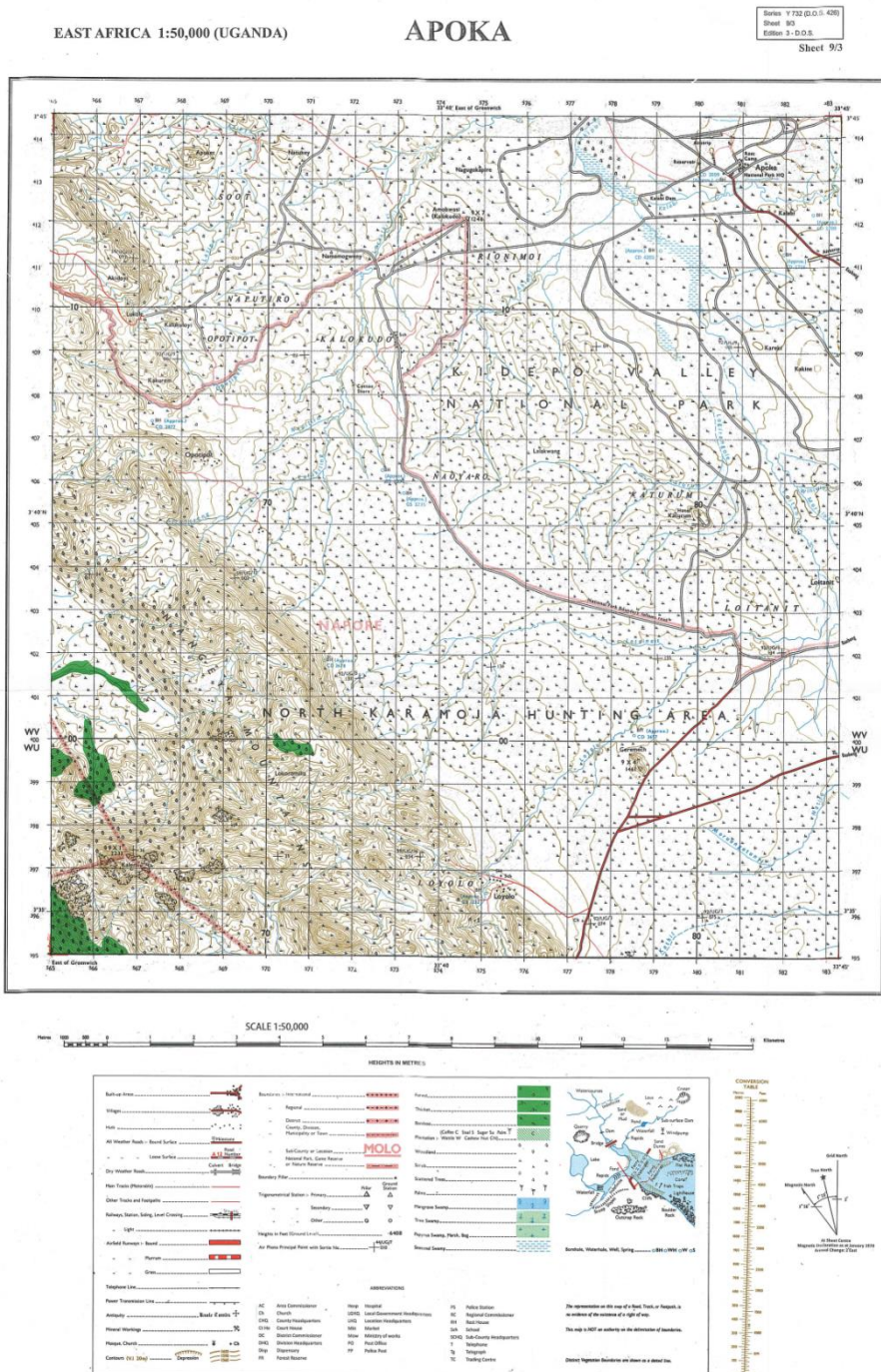
- Steep slopes that allow easy flow of the **tributaries**.
- Homogeneous/uniform rocks allow uniform erosion by rivers.
- Rainfall/precipitation to sustain the flow of tributaries.

Dendritic due to:

- Rainfall or precipitation to sustain flow of rivers.
- Homogeneous rocks for uniform erosion of rivers.
- Gentle slopes allow flow of rivers.

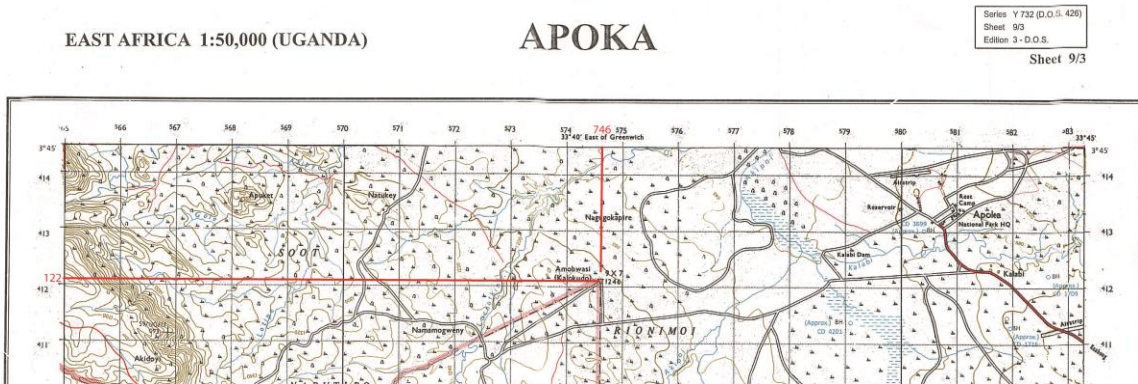
Example 10

Study the 1:50,000 (UGANDA) APOKA series Y732 (D.O.S. 426; part of sheet 9/3, and answer the questions that follow



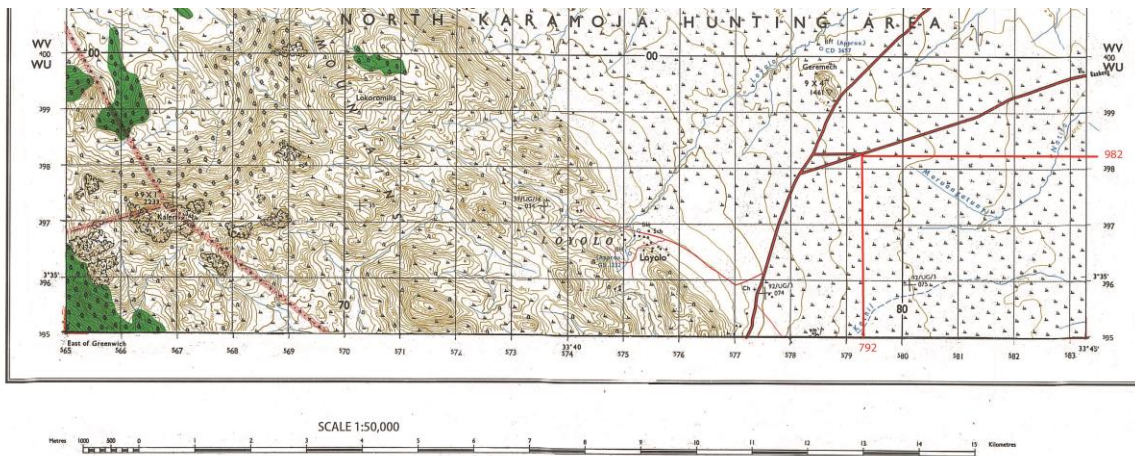
(a)(i) State the grid reference of the secondary trigonometrical station at Amobwasi (Kalokudo) (01mark)

746122



(ii) Name man-made features at grid reference 792982

Road junction/road



(b) Reduce the map by $2\frac{1}{2}$ times. Draw its sketch map and on it, mark and label

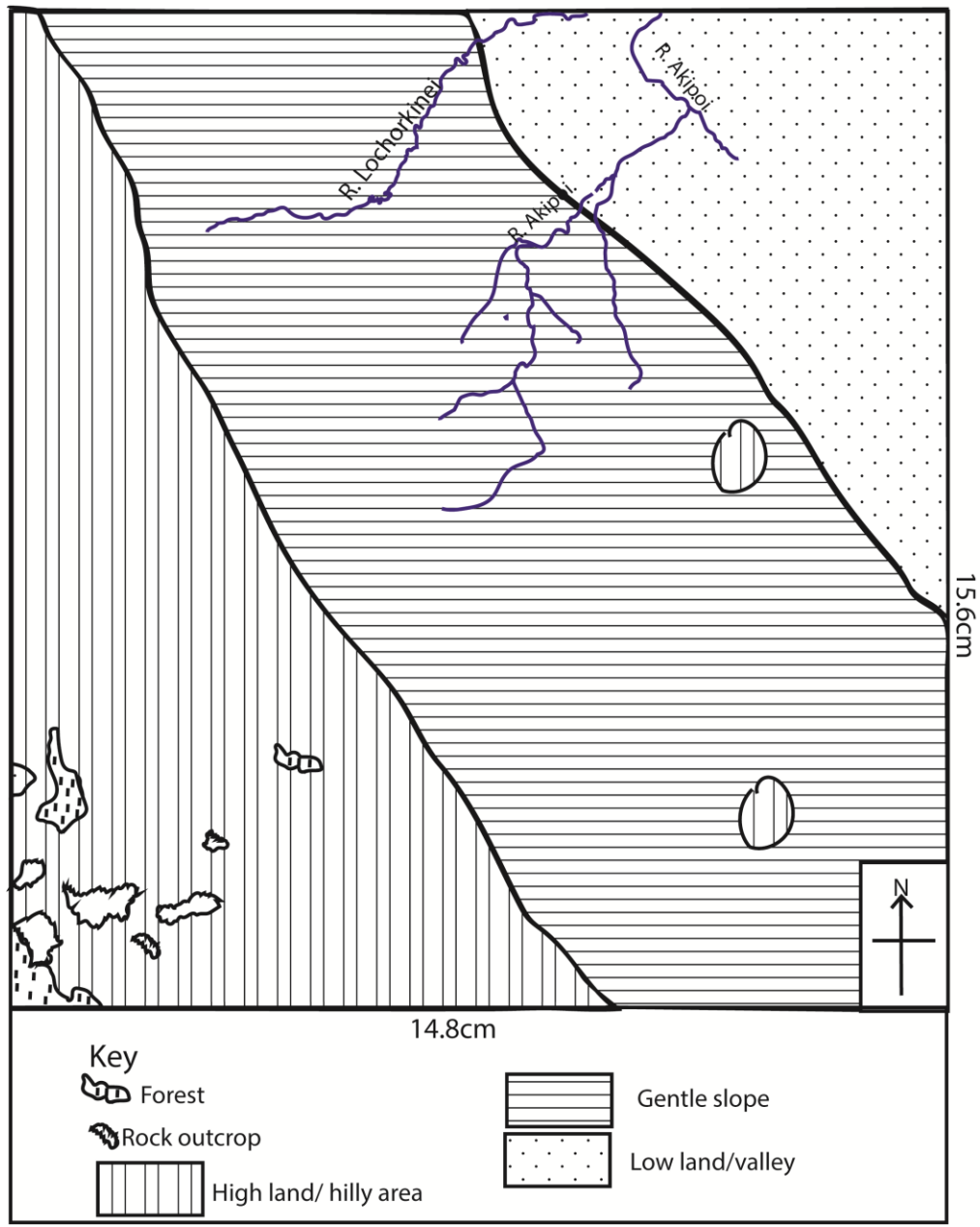
(i) the three physiographic features

(ii) rock outcrops

(iii) rivers Lochorkineis and Akipo

(iv) forests

A reduced sketch map of Apoka showing three physiographic features, rock outcrops, Rivers > Lochorkinei and Akipoi, forests



Calculate the:

(i) new scale of the sketch map drawn in (b) above

$$= \frac{1}{50,000} \div \frac{5}{2} = \frac{1}{50,000} \times \frac{2}{5} = \frac{1}{125,000}$$

∴ new scale: 1: 125,000

(ii) Vertical interval used on the map

$$1220 - 1200 = 20\text{m}$$

(d)(i) Describe the relief of the area shown on the map extract

- Much of the south west and part of the north-west are mountaneous/highlands/hilly/uplans with elongated ridges, steep slopes, rock outcrops, narroe/V- valleys, saddles and col between peaks, numerous spurs
- The central and south is generally gentle slopping with isolated hills e.g. Katurum and Geremech
- North-East is generally low-lying broad valley.
- The highest point area is 2233 m above sea level at Kaleri
- The lowest point is 1140m above sea level in the North-East
- Amplitude of relief is 1093m (2233- 1140)
- Area generally slopes from the South west to North East.

(ii) Explain the relationship between relief and communication in the area shown on the map.

- The bound surface roads to Kabong in the North-East hace been constructed in gently sloping area.
- The dry weather roads in the North-East, central and North that criss cross the area have been constructed in gently sloping and low-lying areas
- Air strip in the North-East is constructed in low-lying area
- The loyolo motorable track in the south Lukole track in the North-west follow gentle slopes-foot tracts in north and north-west
- Generally steep sloping areas of south-west and North-West lack comminication routs

Thanks

Dr. Bbosa science