

(C) Glacials and Interglacials

READ: Glassical dvar and mial real so feature of a sumulation period
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- During times of glacial *retreat*, the amount of accumulation in the mountains is L _ _ _ than the amount of ablation (melting) at the elecier's snout-As a result of this the elecier SH__ _ FNS__

TASK:

(c) **Complete** the table below by **conving secondary horizonal bars** searcate he banging lengths of the **Sólheimajökull** glacier over the last 300 years:-

R	E	R *	s		m	D	1.	mr		5	ns		5
1705	14.8												
1740	15.2	A/R											
1783	13.2	A/R											
1794	14.8	A/R											
1820	15.2	A/R											
1870	15.2	A/R											
1932	14.75	A/R											
1970	13.8	A/R											
1995	14.3	A/R											
2005	13.9	A/R											

(d) *Highlight the appropriate letter (A or R) to indicate whether the Sólheimajökull was Advancing or Retreating at each date in the above table.

(e) Presently we are in an interglacial period i.e. global temperatures are rising.

- What therefore "fits" about Sólheimajökull at the present time?
- In terms of accumulation and ablation, what must be the present situation with regards to Sólheimajökull?

B: Beach Sorting

READ: As a consequence of the **weaker/stronger** (delete) **swash** and the **weaker/stronger** (delete) **backwash**, beach materials become **sorted**. Large materials are left at the **back** of the beach and **finer materials** are drawn back down towards the **water's edge**. Over months and years of **swash** and **backwash** the beach becomes quite clearly **sorted** or **graded**. Figure 42 illustrates this action:-

Back of the beach



F	g	u	re	4	3

Feature	Description
Size(s)	
Shape(s)	
Colour(s)	
Location on beach	

(d) Select any two of the above four features. Then:-

(i) Enter your two choices into the table below;

(ii) For each chosen feature, fully explain why the feature is the way it is.