

Borga Base (7,300 feet above sea level) where 4 members of SANAE 10 spent the winter of 1969 in a Jamesway hut. (Photo—Geological Survey).



EARTH SCIENCE PROGRAMME, S.A.N.A.E. 1969—1970

Geology—Borga Base, a 4-man wintering-over station, was established during May, 1969, near Huldreslottet Nunatak ($72^{\circ} 50'S$, $3^{\circ} 48'W$), some 350 km. due south of SANAE. The detailed geological investigation of the Kirwan Escarpment, particularly the Tunga region, was completed during the post-winter field-season and Antarctic history was made when the hitherto virgin region of the Escarpment between 5° and $7^{\circ}W$, was mapped during mid-summer 1969/70. The field parties progressed up to the southeasternmost continuation of the Escarpment and could clearly see in the distance Heimefrontfjella where British geologists mapped in previous years. The inland base has proved to be a great success and Anton Aucamp and Leon Wolmarans (geologists), Chris Muir (radio operator) and Wilfred Hodsdon (leader and veteran of three expeditions) survived the wintering over extremely well.

Coastal survey—Captain K. T. McNish, master M.V. R.S.A., repeated his 1964-radar survey of more than 350 km. of ice front in the King Haakon VII Sea. Significant changes in the configuration of the ice front have been recorded during the intervening 5 years. The most important change is the calving of nearly two-thirds (ca 1800 km²) of Trolltunga, the more than 120 km. long ice tongue along the Greenwich Meridian. This event

is undoubtedly of major glaciological and cartographic significance. Off-shore echo soundings have also indicated that the break-away point of the continental shelf lies at approximately 700 fathoms and that the continental slope is a very steep (1:4), linear feature. It was planned to extend the coastal survey during the present relief but close pack-ice has thus far prevented any further penetration to the east.

S.A.N.A.E.-maps—Maps (1:1 000 000 and 1:500 000) showing the region of Queen Maud Land traversed by South African geological and geophysical parties including ice thickness and subglacial topography and bathymetry and configuration of the ice front, have been compiled and published.

(Information supplied by *Geological Survey*).

VERSKONING

Weens 'n redaksionele oorsig is daar geen melding in die laaste *Antarktiese Bulletin* (No. 28, Junie tot September, 1969) van gemaak dat die uitredende voorsitter van die Vereniging gedurende Junie 1969 Mnr. D. C. Neethling was nie. Sy jaarverslag 1968/69 het in die bostaande *Bulletin* verskyn.