

for exploration, nor means for the proper display of archæological finds for scientific study as the Federal Government has; while it is generally thought among Mexican archæologists that, had the decision gone in favour of the States, as was expected, they would not have been able to afford their monuments adequate protection from damage, illicit exploitation and other dangers.

The West Indian Hurricane

THE reports of the hurricane that devastated a large part of Cuba on November 9 after destroying most of the banana crop in Jamaica and causing serious damage and loss of life in Little Cayman and Cayman Brac, show that this was the most destructive of the four storms that have caused much loss of life in the West Indies during the hurricane season that—since it is only once in about ten years that the season extends beyond October—should now be ending. The latest estimates give the loss of life in Cuba alone, due mainly to the sea wave on the south coast raised presumably by the southerly hurricane immediately to the east of the storm centre, as more than two thousand. The death roll was therefore much heavier than for the hurricanes which visited the neighbourhood of Galveston on August 13 last, and the Bahamas on September 5, and even for the very violent hurricane of September 26-27 in Puerto Rico. The most recent storm was abnormal in its track as well as in the late date of its occurrence. From information given in the *Times* of November 11, 12, and 14, it would appear that the centre was moving northwards or a little east of north when it passed to the west of Jamaica, and towards north-east when it crossed Cuba. Many storms pass the neighbourhood of Jamaica or the seas to the south of that island, but they are nearly always moving west or north-west, and, if they recurve to north-east, do so far away and in a much higher latitude. The hurricane season of 1932 will long be remembered, although when the total number of hurricanes in this season can be determined it will probably be found that, in the past fifty years, 1886 and 1887 with eleven storms in each case, still hold first place, while 1916, with a total of eight, remains outstanding in more recent years.

Optical Apparatus at the Science Museum

A SPECIAL exhibition dealing with optical phenomena and optical instruments will be opened at the Science Museum on November 19, and will remain on view until the middle of February, 1933. A special feature of the exhibition will be a number of demonstrations and experiments operable by visitors. These will illustrate reflection, refraction, dispersion, interference, diffraction, and polarisation of light as well as the working of simple optical instruments such as the telescope and microscope. They should be of particular interest to students, especially to those who have not the facilities for performing such experiments themselves. Other demonstrations will include a large projection microscope designed for the examination of metals in large

pieces, a rangefinder specially adapted to take short ranges in the Museum, a home cinematograph projector using standard size film, a large ophthalmoscope for examination of the human eye and a modern epidiascope. The historical development of various optical instruments will be illustrated by examples selected from the Museum collections, and current practice in optical instrument manufacture will be further represented by a selection of modern instruments lent by various firms especially for the exhibition.

Exhibition of British Coastal Craft

A TEMPORARY exhibition illustrating the fishing boats and coastal craft of Great Britain will be opened in the Entrance Hall of the Science Museum on November 19 and will remain on view until the middle of February, 1933. Some thirty models which have been selected mainly from the large collection of small craft exhibited in Gallery 61 of the Museum, will be shown, in addition to a collection of about sixty photographic transparencies, some of boats for which no models are available in actual use, and others of detailed plans of the more important types. The arrangement will be geographical and will thus show in their proper relations the yoles and sexerns of the Shetlands and Orkneys, the fifes and baldies of the east coast of Scotland, and the cobbles of Yorkshire, together with the eighteenth century herring-busses and the early nineteenth century three-masted luggers which fished in the North Sea. East Anglia will be represented by the distinctive sailing drifters of Yarmouth, the trawlers of Lowestoft and also by the wherries and older keels of the Broads. There will also be the many craft peculiar to the Thames estuary, the barges, lighters and bawleys, besides the older wherries and peter-boats. From the south coast there will be examples of smacks from Ramsgate and Brixham, the eighteenth century hog-boats of Brighton and the luggers which have succeeded them; also the luggers of Penzance and of Fowey. Very little has yet been written about the west coast local shipping, but several typical examples will be included.

Shyok Glaciers and Indus Floods

UNDER the above title, Mr. J. M. Lacey in an article in the *Engineer* for October 14 gives an account of the formation of the great ice dams which form across the Upper Shyok River in Kashmir, and of the floods in the Indus valley which result from the release of the large volumes of water pent up behind the dams. The Upper Shyok has its source in the Rima Glacier in the Karakoram region, and in its downward course passes the three important glaciers, Chong Kumdan, 9 miles long, falling 3,000 ft.; the Kichik Kumdan, 7 miles long, falling 3,500 ft.; and the Aktash, 5 miles long, falling 2,000 ft. In the event of heavy accumulation of snow on the eastern range, these glaciers advance rapidly into the Shyok gorge. On occasions they flow right across the river until they strike the precipitous cliffs on the opposite side, and sometimes turn down the bed