

along the whole length of that range into a broad swell, propagated onwards as a wave across America and the North Atlantic into Europe. No merely local action, and no casual conjunction of circumstances, can be considered competent to produce so extensive and so regularly recurring an effect. A mere inspection of Admiral Fitzroy's interesting compendium of the state of the barometer, &c., &c., over the area occupied by our island and the neighbouring continental coasts, as recorded from day to day in the *Times*, will suffice to satisfy any one of its occurrence in former years, and to show that its character has been (so far at least, Nov. 21) fully maintained in the present (1864).

(31.) If we are ever to make any material progress in the prediction of the weather beyond "forecasts" of a few hours, or it may be a whole day in advance, it can only be by the continued study of such of its phases as recur periodically, or of such as manifest a *periodicity of event*, as distinct from that of times and seasons, with a view to connecting them with their efficient physical causes. Of this latter description we have an example of one, and of its successful reduction under the domain of philosophical reasoning, in the law of the rotation of the winds. That the winds in their changes, in a general way, "follow the sun," *i.e.*, have a tendency to veer in the same direction round the compass card with the sun's apparent diurnal course in the heavens (from east round by south, west, and north in the northern hemisphere, and reversely in the southern), in continual succession back to the original