## SCIENTIFIC NOTICES.

## NO III.

## ON DRY FOGS.

attention from the earliest ages, is that which is peared to become somewhat less dense after a properly known by the above name of Dry Fog, severe storm. but which in many places is called sun-smoke, Towards the end of June it began to get thinner, moor-smoke, heath-smoke, and by the Germans, but soon returned again worse than ever, and re-Hocherauch and Haarrauch. Although it cannot, mained till the end of July. It then disappeared, properly speaking, be classified with any of those but returned occasionally in some places to a greater phenomena that have formed the subjects of our or less extent. In some places it remained, with inpreceding papers, inasmuch as the substance con-terruptions, up to the beginning of October. Its tained in the air, and which gives rise to such pe-terruptions, up to the beginning of October. Its culiar appearances, does not readily or visibly fall by similar occurrences. In some, it seemed to to the ground, yet it is a subject of such great in-ty vanish of itself; in others, after a fall of rain more tweat the substance of the substance of the substance of the tite number of the substance of terest-more especially in this country, from its or less violent, so that its removal cannot be re-apparent connection with the Indian summer-that ferred to the same cause. it may not be altogether out of place in a series of articles purporting to treat of the phenomena of supposed to be similar to the ordinary ones that the atmosphere.

The dry fog is not a phenomenon of very frequent occurrence. It may be seen slightly in found to be excessively dry, and consequently some parts of the world, more especially in Germa- these fogs must be of a very different nature, and ny, several times in every year; but it is only have therefore received the appellation of "dry rarely that it acquires such intensity as to produce the extraordinary and widely spread appearances" The phenomenon has been, like all those of diffithat attracted so much attention in 1783.

Kæmtz, from whose work the greater part of this notice is taken, mentions a number of recorded instances of peculiar appearances, which are so similar that there can be no doubt they were all produced by the same cause. The first-recorded instance is that which occurred in the year 526, in the reign of the Emperor Justinian, while the last was that of 1834.

is nequency observed in a greater or less degree as in there were any ground for giving an electrical in the north-western parts of Germany, may be character to the phenomenon, especially as we thus described :---When the heavens are quite know of no effect produced by electricity of a na-elear, the usual blue colour is not so bright, but has a more whitish, or even dirty appearance. The law is more whitish, or even dirty appearance. The law is more whitish, or even dirty appearance. The blue disappears a few degrees above the horizon, phur, was observed in many parts of Holland and there we perceive a sharply defined ring quite (1783), and an attempt was made to show that it round the horizon, of a dirty reddish brown colour. depended on the presence of sulphurous acid in the The summer clouds, which are—at least, in their atmosphere, as coloured goods exposed to the sun upper portions-generally white, have more of a were either b, ached, or at least had their colours reddish tinge, while the sun itself has the same, altered. From various circumstances, however, more especially when near the horizon, when it is, which our space will not allow us to mention, it deep blood-red. The light of the sun moreover, appears that this bleaching was produced by other is so much diminished that we can now as a summer of the naked eye, even when high in the heavens. Distant terrestrial objects appear dim and as if from the prevalence of the dry fog; but as the summer, except for occasional thunder-showers, summer for oc

Sometimes these appearances become exceedingly was excessively dry and parching, it does not seem striking, as during the year 1783, the fog was so as if the fog were instrumental in producing any intense in some places, that objects at a distance of such ill effects. a quarter of a mile could either not be seen at all, Many similar appearances have heen observed, or if visible were quite indistinct. The sun was red, but with less intensity. Thus, in 1820, in Holland;

observed in most parts of France, Germany, Italy, and the Netherlands. A few days later, it appeared in Norway, on the Alps, in Moscow, in Siberia, and even in Syria; the Adriatic was covered with it, while it extended about 50 miles into the Atlantic. The same appearances were observed in England; and it was found that neither wind nor A very eurious phenomenon which has attracted rain was able to dissipate the fog, although it ap-

The fogs of 1783, and that of 1834, might be we so constantly see; but when the state of the atmosphere is examined, as regards moisture, it is

cult explanation, referred to electricity, more espocially as the storms that occurred during the prevalence of the fog, in the two years above mentioned, were exceedingly violent; but as both those summers were exceedingly dry, and consequently the clouds very high, and in case of a flash of lightning passing from the clouds to the earth, there must necessarily be a much greater quantity of electricity to produce the effect, when the clouds The phenomenon, as it usually occurs, and as it are high, than when they are low, it does not seem is frequently observed in a greater or less degree as if there were any ground for giving an electrical

The light of the sun moreover appears that this bleaching was produced by other

and its light feeble, so much so, that at the periods, in 1821, in England; and in 1824, in Hidburghau-of sumrise and sunset it could not be seen. It ap-peared first in Copenhagen, on the 29th of May, so thick over the town that the police searched and gradually spread over the whole of Europe; every house for the suspected fire. In 1834, in so that between the 16th and 18th of June, it was May, it was exceedingly strong in parts of Germa-