harvest are greatly in want of assistance; and the presence of icides alone gave the idea and some of them complain that efficient asand some of them complain that efficient assistance is not to be obtained. The emigrants are very much deceived as to their grants are very much deceived as to their licehergs crowding the seean, and involving own capabilities and the value of their labour, incessant caution, for egg and snow storms Unprincipled parties, who pretend to be their often turned the day into night; a passage friends, do much to deceive them on this point. The country could absorb an immense amount of emigrants if they were all capable of labouring efficiently, and willing to take reasonable wages .- Evaminer.

Literary Department.

SIR JAMES ROSS'S VOYAGE IN THE SOUTHERN ASB ANTARG-TIC REGIONS.

In 1838 the British Association for the advancement of Science, passed some resolu-tions on the importance of having a simultaneous series of imagnetic observations; and suggested the localities in which they should pointed out by the resolutions fitted for stations were Canada, St. Helena, Van Dieman's Land, and Mauritius, or the Cape of Good Hope; the desirableness of having similar observations made "in the high Southern latitudes, between the meridians of New Holland and Cape Horn," was also suggested. The points to be regarded in the magnetic observations were the "three elements of horizontal direction, dip and intensity, or their theoretical equivalents, as also their hourly changes, and, on appointed days, their momentary fluctuations." A committee was momentary fluctuations." A committee was appointed to press the subject upon the Government; and the council of the Royal Society (the acknowledged advisers of Government in matters of science) having strenu-ously supported the views of the association. the undertaking was resolved upon. At the same time, it was considered that Antarctic exploration might be combined with magneti-cal observation. Two vessels were accord-ingly fitted up with all the precautions and provisions necessary for a voyage in those high Southern latitudes, and placed under command of Sir James Ross. His leading instructions were to land the observers and their instruments at St. Helena, the Cape and Van Dieman's Land; to establish himself for certain periods at certain places in the Southern Seas, to carry on the magnetic observations on shore; and in the intervals of time to endeavour to penetrate toward the South magnetic pole, or to pursue such other objects of discovery as should seem best in his direction.

Besides making the passage out and home, with occasional visits to New Zealand, Van Dieman's Land and New South Wales, Sir James Ross remained some time at the Falkland Islands and St. Martin's Cove in the immediate vicinity of Cape Horn, for the purpose of scientific observation, or to refit. His most interesting voyages, however, were three in number, and all directed toward high Soutern latitudes. In the first, skirting the more Enstern discoveries of Bellany made in 1839. Sir James Ross penetrated beyond the 78th degree of South latitude; discovered a seeming continent, (laid down on the latest maps as Victoria Land); and traced it from the 70th to the 78th degree of latitude. He was then stopped by a perpendicular barrier of ice from 150 to 300 feet in height, and of course above the most heads of the vessel, so that nothing could be distinctly seen beyond it except in one place; nor could it be reached. This barrier too was examined, as well as the difficulties of the season allowed; the position of the magnetic pole was determined, and approached within 160 miles. A spot was sought where the expe dition might winter, and attempt an overland expedition in the spring to "plant the national flag" on the South insignetic pole, as Sir James had previously done upon the North: but the approach of winter, the formation of ice on the sen, and the manner in which loose pieces quickly became a congented mass, compelled the expedition to return. This voyage was made in the No thern winter of 1840-41 Southern nemisphere. As far as mere distance goes, the explorers penetrated about seven degrees beyond Cook's farthest, and about three degrees and a half beyond Weddell in 1823.

Such progress was not made but under favorable circumstances both of accident and season. In latitude 66 2. 55 they encountered a "mck," through which they had to force their way for upward of two hundred miles; but after that the sea was comparatively clear, and the navigation comparatively casy, till they approached the region " where, in a season of the year equivalent to August in England, the thermometer was at 120

because the navigation was still beset by the difficulties incidental to those high latitudes; sometimes had to be made through newly formed ice, by cutting away or rolling the ships bouts upon the mass; and at one of the worst points of the voyage, "the waves, as they broke over the ship, frozens they fell on the decks and rigging, and covered our clothes with a thick coating of ice, so that the people suffered severely during the continuance of the gale," although before the middle of the Southern August. Nothing, in fact, but the previous experience of the commander and some of his people, with the extraordinary preparation of his ships, enabled the naviga-tors to take advantage of the favorable circumstances in which they found themselves.

The second voyage, made with the object of following out the previous discoveries, was less successful; but the perseverance equally great, the hardships and dangers very much be made, as well as the points to which at greater. They made but thirty miles in one tention should be directed. The regions week, even before crossing the Antarctic circle, on account of a calm, a fog. and snow storms. They were entangled at an early period in a pack of ice, whence they never emerged for a thousand miles; but sometimes forced their way through it when the wind served and the ice permitted; sometimes drifted with it backward and forward as the pack itself was swayed by the Antarctic storms; sometimes stood to and fro in a space of open water or made a little way each vessel fastened to the opposite sides of a floe of ice, to avoid accidents or parting com-Yet, though nothing was done as regards actual discovery, the martical maxim of pushing on to the very last illustrated in a remarkable manner the importance of not yield-

ing to difficulties.

"The setting-in of winter now required us to bring our operations in the higher Southern littlides to a close, and seek a more temperate climate in which to pass the winter. And although our hopes of extended discoveries during the senson had been frustrated by our protracted and tedious detention in the pack and the difficulties of penetrating a mass of more than a thousand miles in thickness had been overcome by the perseverance and exertions of my companions; still the time that was consumed in that laborious and fatiguing work left us only n few days of the worst part of the season to pursue our purpose. We had however, during that brief space attained a somewhat higher latitude than last year; we had truced the continuation of the barrier (of ice) ten degrees of longtitude farther to the Eastward. and extended our researches over a large portion of the hitherto unexplored parts of these regions; an amount of success which, while struggling in the pack, few of us could have anticipated."

The third voyage only penetrated to 71 30. on the same parallel as Weddell's (10 ° to 20 ° of West longtitude.) when a pack of ice and the advanced season prevented all efforts to proceed further. As close and extensive a survey as the weather in that region permits had previously been made of the Shetland group, latitude about 62 ° to 64 ° and West longitude 50 ° to 70 °, including Graham Land, and the Perre Le is Philip-

pe, discovered by D'Urville. In voyages of this kind the first object is scientific facts, and an accurate report of them; which, of course, somewhat interferes with popular attractiveness. The soundings of the ocean, its temperature at different depths, the observations of currents, the bearings of objects, the variation of the magnet, and the minute detail of other facts and phenomena, however interesting and suggestive to the geographer, (and they are highly so.) have only an occasional attraction for the publicat large; while their continual repetition, which is an absolute necessity, interferes with the narrative and flattens us well as suspends it. The formality and retinue of official responsibility increase lengthiness by the detail prescribed and the formal compliments apparently required. Notwithstanding these necessary drawbacks, the volumes before us are in the main attractive even to general, readers. There is the excitement attached to voyages of discovery, and the interest attending hardships borne and dangers and difficulties overcome. The Antarctic scenery is rather enumerated than described, for the style of the book is somewhat literal; but still it is there. The enormous icebergs standing on the ocean; the still ice-fields stretching away in every direction, or clashing and grinding under the influence of the storm; the mountains cased in eternal ice, and the wintry desolation of the frozen continent, are all indicated to the reader in the

There is, of course, continual risk; some-There is, of course, continual risk; some-ment of new "Gods" he goes to war in order to times terrific danger—as when a collision test their efficacy. Hithere Regis and Co. have took place between the ships close upon an been lucky in their "Gods." True San::

parrative of adventure.

iceberg, and life hung upon the accidents of a moment; or the vessels, embayed in a pack during a gale, which forced the masses of ice against or over each other, drove helplessly about with damaged rudders; and nothing could be done but to hole on and wait the end. Some of the scientific facts are curious; and though the reports of the proper officers on the botany, geology. &c., may rather incumber the narrative, they give a variety, and often contains bits of generally interesting description.

A controversy both as regards claims to discovery, and, what is of much more importance, to fair dealing, is half raised in the work, in reference to the late disputes between the French and Americans as to their right to the credit of certain discoveries of patches of land between the 65th and 67th legrees of South latitude and the 13th and 14th of East longitude; and in which controversy, Wilkes, the commander of the American exploring expedition, wished to make out that the English were taking a part. In our notice of the second and third volumes of that work, we entered so fully into the question of national claims, that a tabular synopsis of the subject will be sufficient here.

Navigators, Land discovered, Date, Name, Wation, South Lat' Lon, 1831 Feb., Buron, English, Gd deg, 44 deg, East 1832 Feb., Bircoe, do. 67 deg, 72 deg, Wes 1839 Feb., Birlany, do. 67 deg, 161 deg, Last 1839 March, Alellany, do. 65 deg, 121 deg, East (These were the extremes of Bellany's discoveries He sighed, or supposed he sighted, land between the two points, along the fine of the French and Americ an discoveries the following year.) 1840 Jan & Feb IP Urville, French, 661 deg, 130 deg East 1940 Jan & Feb IP Urville, do. 55 deg, 130 deg East							
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(This last was ley chifs, supposed to cover land, and named by D'Urville, "Coto Claire.")

1840 Jan & Feb, Wilkes. American 62 deg 97 deg 10 to 67 l'Grdeg East 6 The latitude and longitude are given in round numbers, as no point whatever is involved in exact position. It should be observed that the French and American discoveries were made in ignorance of Bellany's, and of each other's.

The priority of days between D'Urville and Wilkes is not easy to settle, because it is not easy to tell what actual land Wilkes really did discover; but in the verified places the Frenchmen seems to have been the first, and there is no doubt as to his superior accuracy of proceeding. When he has verified land he marks it as land; when he finds ice cliffs, but considers them as a covering of land, he so distinguishes them—"Cote Claire;" When he infers a thing, he lays it down as suppos-itory—" Isle supposed." Wilkes on the Wilkes on the other hand, with true go-ahead precipitation lays down every thing that loomed like land as land, and seems to have connected intermediate places that were not seen. At all events, while Ross was at Van Diemand's Land, Wilkes sent him, from New Zealand, a letter, of very general advice, and a chart of the alleged American discoveries, in which a continuous coast line is traced from the 97th to the 167th degrees of East longitude, with a latitude varying about five degrees (62 to 67.) The first use Ross made of the chart was to avoid the longitude of the French and use was to sail over the Easterly extremity of Wilkes land on his return.

We have seen by the extracts how easily the inexperienced or even the experienc ed navigator is deceived by the appearance of land in these high latitudes; and the history of men is full of men misled by apparent signs of land, under clearer skies. take is natural enough, and reflects no discredit upon Wilkes as a marmer; but laying down lands in the way he did is conclsive as to his character, as a scientific explorer and discoverer, whatever may be thought of him as a seaman. It is a graver charge than any errors in observation or shortcomings in science, that though he knew of one if not both of Bellany's discoveries, when he sent the chart to Ross, he omitted all mention of his name; but when Ross had sailed over his alleged land, he turned round and declared that it was an English discovery which had been falsified—though Bellany's Islands had been seventy miles off, besides having been verified by landing; and in his published narrative Wilkes suppresses all mention of Bellany's discoveries. In future the Americans must imsunderstands himself; he is not made for home, be more cautious what officers they send on for whatever else he may be adapted. scientific expeditions.—[London Spectator.

TRADE IN GODS!-Strange and even profane as this title may sound, it is a literal fact, La Democrate Pacifique states that there is a wharehouse in Paris with the title "Dupot for African Gods!" The firm of Regis carries on an extensive business with Senegal, where there are about as many kings as medieval Italy had princes. These African kings make war by way of a little pleasant excitement. When one of them has lost a battle be dismisses his and orders new French ones from Regis & Co., who employ artists to make them of deal, with serpents' heads, lions' masses, and tigers' claws. When a Senegal potentate obtains a consignment of new "Gods" he goes to war in order to

An English Pern.-The Duke of Northum-An excellent Ferra.—In Durks of Avendumberland—one of the richest peers in Great Britain—died last month quite suddenly in his bed, of influenza. A foreign correspondent of an American paper says of the event:—It is an awful thought to reflect that all the enormous wealth of this publicance the descendant of the required this nobleman—the descendent of the renowned Percys—with an income averaging him £2,000 to £3,000 daily, perfectly unincumbered—could not procure a single hand to close his eyes, or which he might have grasped and breathed farewell. His Grace died without issue, and is succeeded in his titles and possessions by his brother Lord Prudhoe. Though not a man of great abilities the late Duke held the high office of Chancellor of the University of Cambridge. He also had been Lord Lieutenant of Ireland, Ambassador to the Court of St Petersburg, and special envoy to France at the coronation of the ill fated Charles the X. During the embassy he refused to receive his nobleman-the descendent of the renowned to France at the coronation of the ill fated Charles the X. During the embassy he refused to receive money for outift, or any thing else; though a diamond hilted sword worth £10,800 sterling voted to him by the House of Commons, he subsequently accepted. During the whole time that he remained in France, he had independent of retainers, three hundred gentlemen of birth in his suite. As he progressed through France to Paris he scattered gold among the crowds that surrounded his train of cominger at overy postown. rounded his train of equipages at overy post-town. His wife was governess to Queen Victoria. The remains of the Duke was interred in Westmin-ster Abbey, in the tomb of the Percys, and with royal state.

NERVES OF THE HEART.-The New Orleans Commercial Times states that an interesting discovery has recently been made by Dr. Lee of that city. It says:—"The doctrine that the heart was wholly devoid of nerves (cor nervis carere) and was a stupidum et insensibile viscus, which obtained, we believe, at the close of the last century had already heart the cross-field by the last century had already heart the core. tury, had already been modified by later authorities; but until Dr. Lee commenced his inquiries it was generally supposed that the nerves were very few in number: it was considered that the organ performed its important functions with little or no nervous action. Dr. Lee's inquiries are stated to establish not merely the existence of numerous hitherto unnoticed nerves in the heart, out also the curious facts, that these nerves increase with the increase of the organ; and that the nerves on the left side are more than double the size of those on the right. This latter circumstance is accounted for by the difference in the functions of the two sides, it being the office of the left ventri-cle to disperse the blood through he whole body by means of the arteries, while that of the right ventricle is merely to transmit it through the lungs to the left attricle—an operation obviously requir-ing a less vigorous pulsation, and consequently less nervous power, than that of the left ventricle. This discovery may be regarded as the comple-ment of Harvey's doctrine of the circulation of blood."

THE DISTRIBUTION OF CARBONIC ACID IN ROOMS FROM THE BURNING OF CHARCOAL.—It is commonly supposed that the carbonic acid resulting from burning charcoal in a brazier remains as a heavy stratum of vapor upon the floor of an apart-ment as it does upon the floor of the "Grotto del Cane." and that no danger is to be apprehended in entering the appartment if a person stand up-right; but this notion is seriously erroneous, as the chemist can prove. In fact, as carbonic acid is formed during the combustion of charcoal, it is materially lighter than air, because it is of an ex-American discoveries, to sail nearly twelve degrees further South, and to discover Victoria Land and the icy barrier. The next thermal levity, and bends uniformly with the air of the apartment, while another curious action is simultaneously ensuing, viz.: the charcoal, in order to burn and to continue burning, must have oxygen—it takes this from the air to form carbonic acid, but leaves the nitrogen, which is equally mephilical, so that, in the course of a very later time if the carree he permitted for these with short time, if no egress be permitted for these sub-stances so inimical to life, the entire volume of the air becomes thoroughly vitiated, and a person entering the apartment would be suffocated.

> Constant foresight is destructive of much happiness. They are happiest who can enjoy the present and leave the future to the future. However at times, this nursing of the future is most beneficial. It is especially so to the man of the world; because it leads him to include in his number as habiting future probabilities and early and habiting and early the second transfer of the contract of the mundane calculations future probability and con-tingency, while the plodding, unspeculative man will lose by his short-righted investments.

It is an error to suppose that domestic happiness does not require for its ingredient a large pro-portion of hitle cares and attentions. They are the soul of it. A man who says he is made for home, and is careless of little cares and attentions for his home, is under'a delusion; such a man

THE MIRAGE.—The following extraordinary optical allusion is described by a correspondent of the (Paris) Journal des Debats:-" On Friday last, between 7 and 8 olclock in the morning, the wenther being cold and clear, and while the sun was rising brilliantly, we belied a mirage. From the point of the steeple of the Cathedral of Ulm rose a narrow ray of a dark color, almost vertical, with a slight inclination to the West. Here this ray, the image of the Upper half of the steeple of the Cuthedral was designed, with its towers and all the numerous and delicate Gothic ornaments which decorate it on all sides. This image was so correct that it might have been mistaken for a representation made by the Daguerreotype. Eight times this phenomenon was repeated. Such an optical effect is, unexplained in this

[&]quot; Bellany I lands, in about latitude 67 and lougitude 164 East.