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## 204 HISTORY OF THE [1870-80]

something different to the English. Mr. Burnham endorsed this explanation in a paper contributed to the *Monthly Notices* in 1880.

The President (Lord Lindsay), Sir George Airy, and other Members of Council felt that some action should be taken to express their disapproval of Mr. Sadler's paper, for the publication of which they held themselves responsible. The Astronomer Royal prepared draft resolutions which were submitted to the Council at a Special Meeting on Monday, 1870 April 7. Of the essential resolutions, four in number, three only were adopted, and these after some amendment. The fourth resolution, which was condemnatory of Mr. Sadler's criticism of the "Reference Catalogue," was dropped. Airy took this emendation of his plan so seriously that he immediately, at this meeting on April 7, resigned his office of Vice-President of the Society, which led to the publication of the following note in *Nature* of April 10.

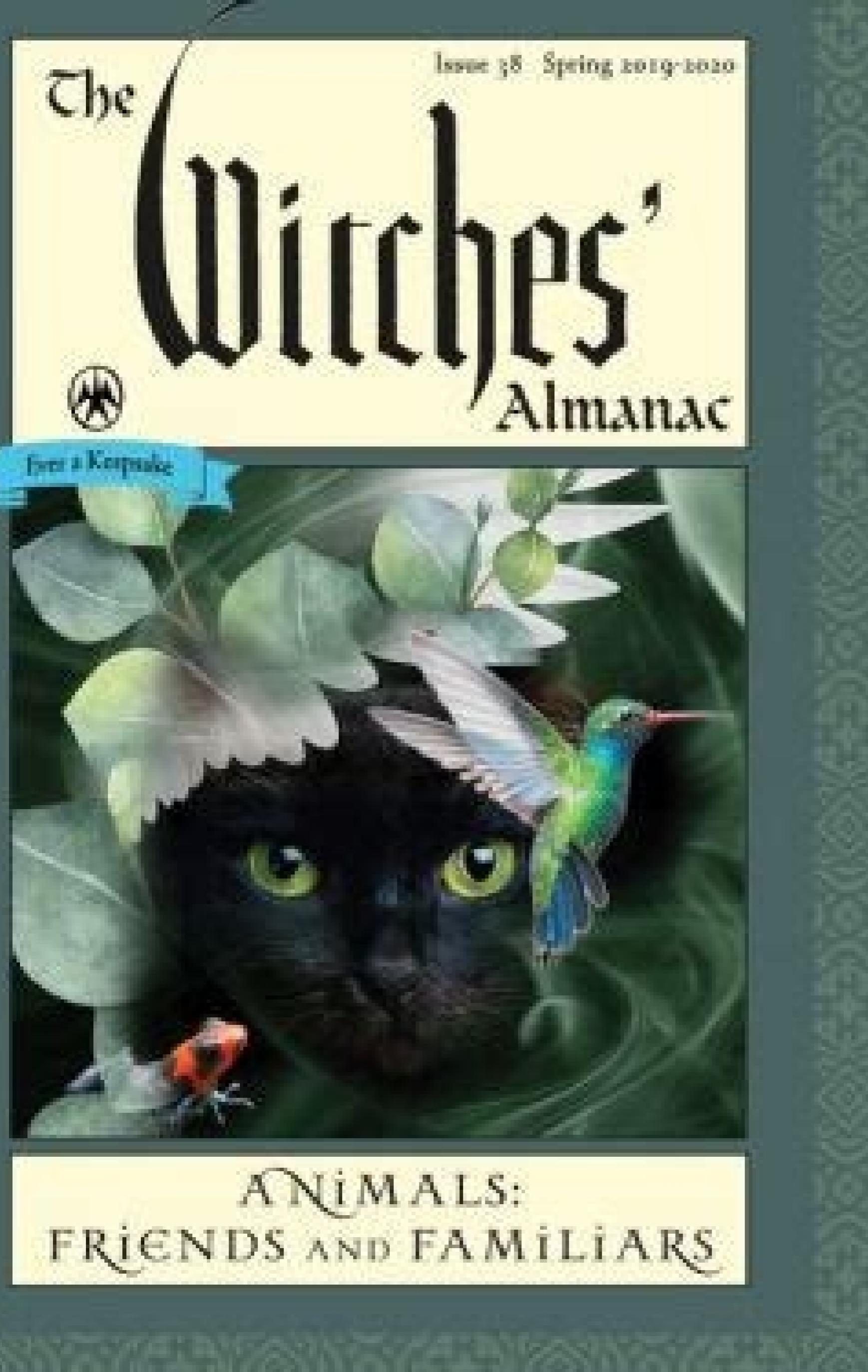
In the interests of British science we have refrained now for some time from referring to the evil days which have fallen upon one of the most reputable of our learned societies. The time, however, has now come when such a course is no longer tenable. At the meeting of the Royal Astronomical Society's Council on Monday, the Astronomer Royal, in consequence of the recent action of the Council—an action inevitable when the present constitution of that body is considered—resigned his seat at the board. We cannot too much regret that this Society, the traditions of which are second to none in Europe, should have been utilised for some years past by an advertising clique who have everything to gain by their connection with a body of honourable students of science. The withdrawal of men long known for their astronomical work from the Council commenced some time since. It has now culminated in the resignation of the Astronomer Royal, and we are satisfied that it will not be long before to follow a similar course of scientific ignominy risks somewhat in being found among the Councillors. Surely the Fellows of the Royal Astronomical Society of London are strong enough to remedy such a state of things as this.

The three amended resolutions were considered and adopted by the Council at their ordinary monthly meeting on April 9 (Good Friday fell on April 11 in this year)—when it was resolved that they should be further discussed at the next meeting of the Council, which would be on May 9. On that occasion extensive verbal alterations were made, and the fourth of the original resolutions proposed by Airy was restored with some modification. Finally, the resolutions given below were passed by the Council and read to the Fellows present at the meeting of the Society in the evening of the same date.

## JULY 2021

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Wk	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	27	28	29	30	1	2	3
28	4	5	6	7	8	9	10
29	11	12	13	14	15	16	17
30	18	19	20	21	22	23	24
31	25	26	27	28	29	30	31



On the one hand, this enormous distance is something great because if the Earth were closer, the amount of light and energy that it would receive would be much higher. Therefore, the temperature would increase, putting the development of life in danger. On the other hand, if we were closer to the Sun, it would be the opposite: the lack of energy and low temperatures would make the living existence on our planet difficult.

Another interesting feature is that Earth's orbit is almost circular (is indeed an ellipse), and that makes our radiation levels neither too high nor too low. An elliptical orbit would mean that we would be closer to the Sun in some time, but in that period, life would experience significant changes: it would be everywhere and a lot of UV radiation which would kill bacteria, causing damage to the living creatures here on the Earth surface. The rest of the time, we would be far from the Sun, which would bring a

brief ice age every year, and by the freeze of everything and the lack of both energy and light, it would be significantly hard to survive.

The term "habitable zone" or "circumstellar habitable zone" was created to describe a place as the one the Earth has in space, where there is a stable, allowing the orbit and the existence of life. This term refers to the specific region around a star, where the temperature of an object or planet is between 0 °C and 100 °C, and water in liquid state is possible under normal pressure conditions.

Venus and Mars are in the inner and outer bounds of the habitable zone. However, it is needed much more than the right temperature for the existence of life. Next, we are discussing four essential conditions for habitability on Earth.

In green, the habitable zone of the Solar System.

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This free software creates daily pages (a printable A4). You need Java/Script enabled to view it. This annual publication contains predictions of the Sun, Moon, planets and satellites; data for eclipses and other astronomical phenomena for a given year, and serves as a world-wide standard for such forecasts. Also used for navigation by air and water. The Astronomical Almanac is a joint publication of the U.S. Naval Observatory (USNO), in the United States and Her Majesty's Nautical Almanac Office (HMNAO), United Kingdom Hydrographic Office (UKHO), in the United Kingdom. On the sheet "standard latitudes" events at fixed latitudes/Greenwich longitude are shown like a traditional nautical almanac. A small supplementary publication was released in PDF format (contains 97 additional stars). Online data are provided for several years. This annual publication contains predicted epicycles of the Sun, Moon, planets, and satellites; data for eclipses and other astronomical phenomena for a given year, and serves as a worldwide standard for such information. The new "PDF" version contains increments and correction tables for Sun and Aries, corrections to apply to the observed altitude of Sun and fixed star, conversion of arc to time, speed-time-distance table. All these astronomical data and information allow mariners to calculate the ship position with the traditional method of the celestial navigation (using a sextant), view of the Nautical Almanac of the stars. The excel spreadsheet (software) shows : Sun - Greenwich hour angle (G.H.A.) and declination tabulated at hourly intervals including increments, semi-diameter and meridian passage at Greenwich ; Aries - hour tables (Greenwich hour angle - sidereal time) ; Stars - position tables ( sidereal hour angle - S.H.A. and declination ) - 64 stars are tabulated (Polaris included) ; On the nautical almanac the astronomical events are shown according to the geographic coordinates : nautical twilights, sunrise and sunset. The user assumes full responsibility for the use of the software. Libraries may want this updated volume to be included in their astronomy and astronomical collections. Contains data for astronomy, space sciences, geodesy, surveying, navigation, and other applications. Provides current, accurate astronomical data for use in the making and reduction of observations and for general purposes. Results have been rounded to the nearest value (0.1 arcminute), disclaimer and use This is a freeware software (excel spreadsheet) but the redistribution is forbidden and the download is possible from this website only. Description of the nautical almanac (astronomical almanac for mariners) - "excel" version By entering latitude and longitude of the estimated position excel automatically calculates the times of the astronomical events in U.T. (Greenwich Mean Time) : twilight, sunrise and sunset. VSOP87 Theory has been incorporated in the program and allows the calculation of the position of the sun with an error not exceeding 2". It is named "Supplement to Nautical Almanac", accuracy Hour angles and declinations are calculated with a precision equal to that given in the traditional Nautical Almanac. nautical almanac - download area Altitude correction tables Celestial Navigation - exercises book The version of the next year will be issued in October. © nauticalalmanac 2022 - all rights reserved Description The Astronomical Almanac is a joint publication of the U.S. Naval Observatory (USNO) in the United States, Her Majesty's Nautical Almanac Office (HMNAO), and the United Kingdom Hydrographic Office (UKHO). Times are expressed in Universal Time (U.T.) - Latitude 50° 24.5' North and longitude 0°00.1 West are the geographic coordinates (approx.) of the lightvessel "Greenwich" at the southern entrance to The Channel (in the middle of the separation zone). This Almanac does not intend to substitute the traditional Nautical Almanac. New coordinates are required for the real estimated position (or country, town etc.). Prepared jointly with Her Majesty's Nautical Almanac Office, United Kingdom Hydrographic Office. Designed in consultation with other astronomers of many countries.

The Hindu calendar, Panchanga (Sanskrit: पञ्चांगम्) or Panjika is one of various lunisolar calendars that are traditionally used in the Indian subcontinent and Southeast Asia, with further regional variations for social and Hindu religious purposes. They adopt a similar underlying concept for timekeeping based on sidereal year for solar cycle and adjustment of lunar cycles ... In astronomy, a Julian year (symbol: a or a j) is a unit of measurement of time defined as exactly 365.25 days of 86 400 SI seconds each. The length of the Julian year is the average length of the year in the Julian calendar that was used in Western societies until the adoption of the Gregorian Calendar, and from which the unit is named. Nevertheless, because astronomical Julian years ...

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