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On the cover: Photomicrograph of crystals of vitamin B₁. (Dennis Kunkel, University of Hawaii)

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marine terrace

facilities for docking, cargo-handling, and storage. { mə'rēn 'term·ən·əl |

marine terrace [GEOL] A seacoast terrace formed by the merging of a wave-built terrace and a wave-cut platform. Also known as sea terrace; shore terrace. { mə'rēn 'ter əs }

marine traffic [NAV] Traffic on the waterways. { mə'rēn 'traf•ik

marine transgression See transgression. { mə'rēn tranz'gresh an }

marine weather observation [METEOROL] The weather as observed from a ship at sea, usually taken in accordance with procedures specified by the World Meteorological Organization. { mə'rēn 'weth ər ab zər vā shən }

Mariotte's law See Boyle's law. { |mar ē | äts lo }

marita [INV ZOO] An adult trematode. { mə'rīd·ə }

maritime air [METEOROL] A type of air whose characteristics are developed over an extensive water surface and which, therefore, has the basic maritime quality of high moisture content in at least its lower levels. { 'mar.o,tim 'er }

maritime climate See marine climate. { 'mar ə,tīm 'klī mət } maritime frequency bands [COMMUN] In the United States, a collection of radio frequencies allocated for communication between coast stations and ships or between ships. { 'mar ə, tīm fre-kwon-se banz }

maritime law [NAV] Law that concerns navigation and commerce on the oceans and other navigable bodies of water. { 'mar·ə,tīm 'ló }

maritime mobile service [COMMUN] A mobile service be-tween coast stations and ship stations, or between ship stations, in which survival craft stations may also participate. { 'marə,tīm 'mö·bəl ¦sər·vəs }

maritime polar air [METEOROL] Polar air initially possessing similar properties to those of continental polar air, but in passing over warmer water it becomes unstable with a higher moisture content. { 'mar·ə,tīm 'pō·lər ¦er }

maritime position [NAV] The location of a seaport or other point along a coast. { 'mar ə,tīm pə'zish ən }

maritime satellite See MARISAT. (' $\tan 2 \pi \sin 2 \pi$ ical air, produced over the tropical and subtropical seas; it is very warm and humid, and is frequently carried poleward on the western flanks of the subtropical highs. { 'mar-a,tīm 'träpə kəl ler)

marjoram [BOT] Any of several perennial plants of the genera Origanum and Majorana in the mint family, Labiatae; the leaves are used as a food seasoning. { 'mär·jə·rəm }

marjoram oil [MATER] A colorless essential liquid whose chief components are terpenes, obtained from marjoram plants of the genus Origanum; used as a perfume in soaps, and in flavorings. { 'mär·jə·rəm oil }

mark [COMMUN] The closed-circuit condition in telegraphic communication, during which the signal actuates the printer; the opposite of space. [COMPUT SCI] A distinguishing feature used to signal some particular location or condition. [NAV] 1. A charted conspicuous object, structure, or light serving as an indicator for guidance or warning to craft; a beacon: it may be a day-beacon or sea-mark depending upon its location, or a daymark or lighted beacon depending upon its period of usefulness. 2. Fathoms marked on a lead ine. [ORD] A designation followed by a serial number, used to identify models of military equipment. [STAT] The name or value given to a class interval; frequently, the value of the midpoint or the integer nearest the midpoint. { märk }

mark detection [COMPUT SCI] That class of character recognition systems which employs coded documents, in the form of boxes or windows, in order to convey intended information by means of pencil or ink marks made in specific boxes. { 'mark di tek shan }

marker [GEN] A gene with a known location on a chromosome and a clear-cut phenotype. [IMMUNOL] Any antigen that serves to distinguish cell types. [ORD] A sign or signal for marking a location on land or water; frequently contains pyrotechnics. { 'märk·ər }

marker beacon [NAV] A low-power radio beacon transmitting a signal to designate a small area, as an aid to navigation. { 'märk·ər ,bē·kən }

marker bed [GEOL] 1. A stratified unit with distinctive char-

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seismic refraction time-distance curve. 3. See key bed. { 'märk ər bed }

marker buoy [NAV] 1. A temporary buoy used in surveying to mark a location of particular interest, such as a shoal or reef. 2. See station buoy. { 'märk ər boi }

marker pulse [COMMUN] A pulse used for synchronization between transmitter and receiver in a time-division multiplex system. { 'märk·ər pəls }

market analysis [IND ENG] The collection and evaluation of data concerned with the past, present, or future attributes of potential consumers for a product or service. { 'market e,nalə·səs)

mark-hold [COMMUN] The transmission of a steady mark to indicate that there is no traffic over a telegraph channel; the upper marking frequency of a duplex channel (2225 hertz) is used to disable echo suppressors which may interfere with data communications. { |märk |hold }

Mark-Houwink equation [PHYS CHEM] The relationship between intrinsic viscosity and molecular weight for homogeneous linear polymers. { 'märk 'hau, wiŋk i, kwā·zhən }

marking and spacing intervals [COMMUN] Intervals of closed and open conditions in transmission circuits. { märkin on spasin 'in torvolz }

marking bias [COMMUN] Bias distortion that lengthens the marking impulse. ('märkiŋ, bī əs) marking current [ELEC] Magnitude and polarity of current

in the line when the receiving mechanism is in the operating position. { 'märk-iŋ kə rənt } marking-end distortion [соммим] End distortion that

lengthens the marking impulse. { 'märk-iŋ 'end di,stor-shan } marking pulse [ELEC] In a teletypewriter, the signal interval during which time the teletypewriter selector unit is operated. { märk•iŋ pəls

marking wave [ELEC] In telegraphic communications, that portion of the emission during which the active portions of the code character are being transmitted. Also known as keying wave. { 'märk•iŋ wāv }

Markov chain [MATH] A Markov process whose state space is finite or countably infinite. { $\max_{x \in X} (x \in X)$ } **Markov inequality** [STAT] If x is a random variable with

probability P and expectation E, then $P(|x| \ge a) \le E(|x|^n/a^n)$. { 'mar,kof ,in•i'kwäl•əd•ē }

Markovnikoff'srule [ORG CHEM] In an addition reaction, the additive molecule RH adds as H and R, with the R going to the carbon atom with the lesser number of hydrogen atoms bonded to it. { mär'köv•nə,köfs ,rül }

Markov process [MATH] A stochastic process which assumes that in a series of random events the probability of an occurrence of each event depends only on the immediately preceding outcome. { 'mär kof prä·səs }

mark reading [COMPUT SCI] In character recognition, that form of mark detection which employs a photoelectric device to locate and convey intended information; the information appears as special marks on sites (windows) within the document coding area. { 'märk rēd iŋ }

mark sensing [COMPUT SCI] In character recognition, that form of mark detection which depends on the conductivity of graphite pencil marks to locate and convey intended information; the information appears as special marks on sites (windows) within the document coding area. { 'mark , sens in }

mark-space multiplier [ELECTR] A multiplier used in analog computers in which one input controls the mark-to-space ratio of a square wave while the other input controls the amplitude of the wave, and the output, obtained by a smoothing operation, is proportional to the average value of the signal. Also known as time-division multiplier. { 'märk 'spās 'məl·tə plī·ər

mark-space ratio See mark-to-space ratio. { mark spas 'rashō

mark-to-space ratio [ELECTR] The ratio of the duration of the positive-amplitude part of a square wave to that of the neg-Also known as mark-space ratio. ative-amplitude part. { märk tə spās rāsho }

mark-to-space transition [COMMUN] The process of switching from a mark to a space. { 'mark 'tə 'spās tran'zish ən } marl [GEOL] A deposit of crumbling earthy material composed principally of clay with magnesium and calcium carbonate; used as a fertilizer for lime-deficient soils. Also known as malm.

marline [NAV ARC about 1/8 inch (3 m { 'mär·lən }

marline spike [N arate the strands of and seizing. { 'm marlite See marlsto maristone [PETR same composition argillaceous limes ferruginous rock o marly [GEOL] PO { 'mär·lē }

marmatite [MINE posed of iron-bear { 'märmə,tīt }

marmolite [MINE curring in thin lan mə,līt }

marmon clampba around the circumf two structures, ho 'klamp_bord } Marmor [GEOL]

cian geologic time, above Whiterock a marmoset [VERT 2 primates belonging primitive in that the hensile tail. { 'mä

marmot {VERT ZO short-legged burrow squirrel family Sciu marocain crepe

twisted wool, silk, giving a cross-ribbe marquenching See marriage theorem

n subsets of a set representatives for 3 together contain at

Hall's theorem. { marrite [MINERAL] curring as small cry marrubium [BOT] the mint family, Lab

as a tonic and anthe hound. { mə'rü·bē· Mars [ASTRON] T]

is visible to the nake periods when it is ne is about 4150 miles Marsden chart [M tribution of meteoro oceans; using a Me

80°N and 70°S latit each of 10° latitude bered to indicate p quarter squares, or from 00 to 99 to give

dən ,chärt] Marseilles fever See Marseilles soap

olive oil and soda. marsh [ECOL] At part of the time by es by aquatic and grass accumulation. { m

Marsh-Berzelius te test }

marsh gas [GEOCI of methane, produce nant water. { 'mär: marshite [MINERA mineral composed c hardness is 2.5 on { 'mär, shīt }