

T1 ecosystem	T1 predation	T1 competition
T1 symbiosis	T1 biome	T1 temperature and precipitation
T1 tropical rainforest	T1 desert	T1 salinity

T1 竞争 jìng zhēng	T1 捕食 bǔ shí	T1 生态系统 shēng tài xì tǒng
T1 降水 jiàng shuǐ	T1 生物群系 shēng wù qún xì	T1 共生 gòng shēng
T1 盐度 yán dù	T1 沙漠 shā mò	T1 热带雨林 rè dài yǔ lín

T1 Estuaries	T1 coral reef	T1 carbon cycle
T1 fossil fuels	T1 nitrogen cycle	T1 Nitrogen fixation
T1 phosphorus cycle	T1 limiting nutrient	T1 water cycle

T1 碳循环 tàn xún huán	T1 珊瑚礁 shān hú jiāo	T1 河口 hé kǒu
T1 固氮 gù dàn	T1 氮循环 dàn xún huán	T1 化石燃料 huà shí rán liào
T1 水循环 shuǐ xún huán	T1 限制性营养 xiàn zhì xìng yíng yǎng	T1 磷循环 lín xún huán

T1 evaporation	T1 transpiration	T1 Primary productivity
T1 trophic levels	T1 producers	T1 primary, secondary, and tertiary consumers
T1 decomposers	T1 food chain	T1 food web

T1 初级生产力 chū jí shēng chǎn lì	T1 蒸腾 zhēng téng	T1 蒸发 zhēng fā
T1 消费者 xiāo fèi zhě	T1 生产者 shēng chǎn zhě	T1 营养级 yíng yǎng jí
T1 食物网 shí wù wǎng	T1 食物链 shí wù liàn	T1 分解者 fēn jiě zhě

T1 keystone species	T2 Biodiversity	T2 environmental stressors
T2 population bottleneck	T2 species richness	T2 resilient
T2 specialist	T2 generalist	T2 Ecosystem services

T2 环境压力 huán jìng yā lì	T2 生物多样性 shēng wù duō yàng xìng	T1 关键种 guān jiàn zhǒng
T2 有韧性的 yǒu rèn xìng de	T2 物种丰富度 wù zhǒng fēng fù dù	T2 种群瓶颈 zhǒng qún píng jǐng
T2 生态系统服务 shēng tài xì tǒng fú wù	T2 广适性 guǎng shì xìng	T2 特化 tè huà

T2 Anthropogenic	T2 Island biogeography	T2 endemic
T2 invasive species	T2 range of tolerance	T2 optimal range
T2 zones of stress	T2 Ecological tolerance	T2 Periodic

T2 特有 tè yǒu	T2 岛屿生物地理学 dǎo yǔ shēng wù dì lǐ xué	T2 人为的 rén wéi de
T2 最适范围 zuì shì fàn wéi	T2 耐受范围 nài shòu fàn wéi	T2 入侵物种 rù qīn wù zhǒng
T2 周期性 zhōu qī xìng	T2 生态耐受性 shēng tài nài shòu xìng	T2 胁迫区 xié pò qū

T2 Episodic	T2 Random	T2 migration
T2 adaptation	T2 natural selection	T2 Ecological succession
T2 Primary succession	T2 Pioneer species	T2 lichens

T2 迁徙 qiān xǐ	T2 随机 suí jī	T2 偶发性 ǒu fā xìng
T2 生态演替 shēng tài yǎn tì	T2 自然选择 zì rán xuǎn zé	T2 适应 shì yìng
T2 地衣 dì yī	T2 先锋物种 xiān fēng wù zhǒng	T2 初级演替 chū jí yǎn tì

T2 Secondary succession	T2 climax community	T2 keystone species
T2 indicator species	T3 generalist	T3 specialist
T3 survivorship curve	T3 carrying capacity	T3 exponentially

T2 关键种 guān jiàn zhǒng	T2 顶极群落 dǐng jí qún luò	T2 次级演替 cì jí yǎn tì
T3 狭适性物种 xiá shì xìng wù zhǒng	T3 广适性物种 guǎng shì xìng wù zhǒng	T2 指示物种 zhǐ shì wù zhǒng
T3 指数增长 zhǐ shù zēng zhǎng	T3 环境容纳量 huán jìng róng nà liàng	T3 存活曲线 cún huó qū xiàn

T3 logistic	T3 Limiting factors	T3 age-structure diagram
T3 total fertility rate	T3 ecological footprint	T3 demographic transition
T4 plates	T4 plate tectonics	T4 Soil

T3 年龄结构图 nián líng jié gòu tú	T3 限制因素 xiàn zhì yīn sù	T3 逻辑斯蒂增长 luó jí sī dì zēng zhǎng
T3 人口转型 rén kǒu zhuǎn xíng	T3 生态足迹 shēng tài zú jì	T3 总生育率 zǒng shēng yù lǜ
T4 土壤 tǔ rǎng	T4 板块构造 bǎn kuài gòu zào	T4 板块 bǎn kuài

T4 weathers	T4 Erosion	T4 texture
T4 horizons	T4 porosity	T4 permeability
T4 atmosphere	T4 troposphere	T4 stratosphere

T4 质地 zhì dì	T4 侵蚀 qīn shí	T4 风化 fēng huà
T4 渗透性 shèn tòu xìng	T4 孔隙度 kǒng xì dù	T4 土层 tǔ céng
T4 平流层 píng liú céng	T4 对流层 duì liú céng	T4 大气层 dà qì céng

T4 global wind patterns	T4 convection cells	T4 Coriolis effect
T4 watershed	T4 rain shadow	T4 El Niño
T4 La Niña	T5 tragedy of the commons	T5 Clearcutting

T4 科里奥利效应 kē lǐ ào lì xiào yìng	T4 对流环流 duì liú huán liú	T4 全球风带 quán qiú fēng dài
T4 厄尔尼诺 è ěr ní nuò	T4 雨影 yǔ yǐng	T4 流域 liú yù
T5 皆伐 jiē fá	T5 公地悲剧 gōng dì bēi jù	T4 拉尼娜 lā ní nà

T5 erosion	T5 Green Revolution	T5 synthetic fertilizers
T5 pesticides	T5 monoculture	T5 soil salinization
T5 eutrophication	T5 Irrigation	T5 aquifers

T5 化肥 huà féi	T5 绿色革命 lǜ sè gé mìng	T5 侵蚀 qīn shí
T5 土壤盐碱化 tǔ rǎng yán jiǎn huà	T5 单一栽培 dān yī zāi péi	T5 农药 nóng yào
T5 含水层 hán shuǐ céng	T5 灌溉 guàn gài	T5 富营养化 fù yíng yǎng huà

T5 pesticide resistance	T5 methane	T5 Overgrazing
T5 desertification	T5 rotational grazing	T5 Overfishing
T5 Mining	T5 acid mine drainage	T5 subsurface mining

T5 过度放牧 guò dù fàng mù	T5 甲烷 jiǎ wán	T5 抗药性 kàng yào xìng
T5 过度捕捞 guò dù bǔ lāo	T5 轮牧 lún mù	T5 荒漠化 huāng mò huà
T5 地下开采 dì xià kāi cǎi	T5 酸性矿山废水 suān xìng kuàng shān fèi shuǐ	T5 采矿 cǎi kuàng

T5 Urbanization	T5 impervious surfaces	T5 urban heat islands
T5 hydrologic cycle	T5 saltwater intrusion	T5 ecological footprint
T5 Sustainability	T5 permeable pavement	T5 green roofs

T5 热岛 rè dǎo	T5 不透水面 bù tòu shuǐ miàn	T5 城市化 chéng shì huà
T5 生态足迹 shēng tài zú jì	T5 海水入侵 hǎi shuǐ rù qīn	T5 水循环 shuǐ xún huán
T5 绿色屋顶 lǜ sè wū dǐng	T5 透水路面 tòu shuǐ lù miàn	T5 可持续性 kě chí xù xìng

T5 Integrated pest management	T5 crop rotation	T5 contour plowing
T5 terracing	T5 Aquaculture	T5 selective cutting
T5 reforestation	T5 prescribed burn	T5 open-pit mine

T5 等高耕作 děng gāo gēng zuò	T5 轮作 lún zuò	T5 综合虫害管理 zōng hé chóng hài guǎn lǐ
T5 择伐 zé fá	T5 水产养殖 shuǐ chǎn yǎng zhí	T5 梯田 tī tián
T5 露天矿 lù tiān kuàng	T5 计划烧除 jì huà shāo chú	T5 重新造林 chóng xīn zào lín

T5 urban sprawl	T6 renewable resource	T6 nonrenewable resource
T6 fossil fuels	T6 methane	T6 lignite
T6 peat	T6 bituminous	T6 anthracite

T6 不可再生资源 bù kě zài shēng zī yuán	T6 可再生资源 kě zài shēng zī yuán	T5 城市扩张 chéng shì kuò zhāng
T6 褐煤 hè méi	T6 甲烷 jiǎ wán	T6 化石燃料 huà shí rán liào
T6 无烟煤 wú yān méi	T6 烟煤 yān méi	T6 泥炭 ní tàn

T6 hydraulic fracturing	T6 volatile organic compounds	T6 tar sands
T6 bitumen	T6 Nuclear power	T6 fission
T6 waste	T6 Biomass	T6 Ethanol

T6 油砂 yóu shā	T6 挥发性有机化合物 huī fā xìng yǒu jī huà hé wù	T6 水力压裂 shuǐ lì yā liè
T6 裂变 liè biàn	T6 核能 hé néng	T6 沥青 lì qīng
T6 乙醇 yǐ chún	T6 生物质 shēng wù zhì	T6 核废料 hé fèi liào

T6 energy return on energy investment (EROEI)	T6 Solar	T6 photovoltaic
T6 Hydroelectric	T6 reservoir	T6 Geothermal
T6 Steam	T6 hydrogen fuel cell	T6 Wind

T6 光伏 guāng fú	T6 太阳能 tài yáng néng	T6 能量投资回报率 néng liàng tóu zī huí bào lǜ
T6 地热能 dì rè néng	T6 水库 shuǐ kù	T6 水电 shuǐ diàn
T6 风能 fēng néng	T6 氢燃料电池 qīng rán liào diàn chí	T6 蒸汽 zhēng qì

T6 Energy conservation	T6 cogeneration	T6 power station
T6 nuclear power station	T6 dam	T6 wind turbines
T7 Air pollution	T7 Primary pollutants	T7 secondary pollutants

T6 发电站 fā diàn zhàn	T6 热电联产 rè diàn lián chǎn	T6 节能 jié néng
T6 风力涡轮机 fēng lì wō lún jī	T6 大坝 dà bà	T6 核电站 hé diàn zhàn
T7 二次污染物 èr cì wū rǎn wù	T7 一次污染物 yī cì wū rǎn wù	T7 空气污染 kōng qì wū rǎn

T7 Photochemical smog	T7 ozone	T7 thermal inversion
T7 Particulate matter	T7 radon	T7 asbestos
T7 catalytic converters	T7 scrubbers	T7 electrostatic precipitators

T7 逆温 nì wēn	T7 臭氧 chòu yǎng	T7 光化学烟雾 guāng huà xué yān wù
T7 石棉 shí mián	T7 氡 dōng	T7 颗粒物 kē lì wù
T7 静电除尘器 jìng diàn chú chén qì	T7 洗涤器 xǐ dí qì	T7 催化转化器 cūi huà zhuǎn huà qì

T7 Acid rain	T7 noise pollution	T7 hearing loss
T7 stress	T7 wildlife	T8 point source
T8 nonpoint source	T8 Endocrine disruptors	T8 Wetlands

T7 听力损失 tīng lì sǔn shī	T7 噪声污染 zào shēng wū rǎn	T7 酸雨 suān yǔ
T8 点源 diǎn yuán	T7 野生动物 yě shēng dòng wù	T7 压力 yā lì
T8 湿地 shī dì	T8 内分泌干扰物 nèi fēn mì gān rǎo wù	T8 非点源 fēi diǎn yuán

T8 mangroves	T8 Eutrophication	T8 algal blooms
T8 hypoxic	T8 Thermal pollution	T8 Persistent organic pollutants
T8 Bioaccumulation	T8 Biomagnification	T8 sanitary landfills

T8 藻华 zǎo huá	T8 富营养化 fù yíng yǎng huà	T8 红树林 hóng shù lín
T8 持久性有机污染物 chí jiǔ xìng yǒu jī wū rǎn wù	T8 热污染 rè wū rǎn	T8 缺氧 quē yǎng
T8 卫生填埋场 wèi shēng tián mái chǎng	T8 生物放大 shēng wù fàng dà	T8 生物累积 shēng wù lěi jī

T8 incinerators	T8 e-waste	T8 garbage patches
T8 reduce, reuse, recycle	T8 composting	T8 Sewage treatment
T8 LD50	T8 dose-response curve	T8 threshold

T8 垃圾带 lā jī dài	T8 电子垃圾 diàn zǐ lā jī	T8 焚烧炉 fén shāo lú
T8 污水处理 wū shuǐ chǔ lǐ	T8 堆肥 duī féi	T8 减量、再利用、回收 jiǎn liàng 、 zài lì yòng 、 huí shōu
T8 阈值 yù zhí	T8 剂量反应曲线 jì liàng fǎn yìng qū xiàn	T8 半数致死量 bàn shù zhì sǐ liàng

T8 Pathogens	T8 Cholera	T8 Dysentery
T8 Plague	T8 Tuberculosis (TB)	T8 Malaria
T8 mosquito	T8 West Nile / Zika	T8 vectors

T8 痢疾 lì jí	T8 霍乱 huò luàn	T8 病原体 bìng yuán tǐ
T8 疟疾 nuè jí	T8 结核病 jié hé bìng	T8 鼠疫 shǔ yì
T8 传播媒介 chuán bō méi jiè	T8 西尼罗/寨卡 xī ní luó / zhài kǎ	T8 蚊子 wén zi

T9 ozone layer	T9 ultraviolet	T9 CFCs
T9 Montreal Protocol	T9 greenhouse effect	T9 greenhouse gases
T9 methane	T9 global warming potential (GWP)	T9 Global climate change

T9 氯氟烃 lǜ fú tīng	T9 紫外线 zǐ wài xiàn	T9 臭氧层 chòu yǎng céng
T9 温室气体 wēn shì qì tǐ	T9 温室效应 wēn shì xiào yìng	T9 蒙特利尔议定书 méng tè lì ěr yì dìng shū
T9 气候变化 qì hòu biàn huà	T9 全球变暖潜能值 quán qiú biàn nuǎn qián néng zhí	T9 甲烷 jiǎ wán

T9 sea levels	T9 coral bleaching	T9 ocean acidification
T9 calcium carbonate	T9 invasive species	T9 endangered species
T9 habitat fragmentation	T9 The ozone hole	T9 A glacier

T9 海洋酸化 hǎi yáng suān huà	T9 珊瑚白化 shān hú bái huà	T9 海平面 hǎi píng miàn
T9 濒危物种 bīn wēi wù zhǒng	T9 入侵物种 rù qīn wù zhǒng	T9 碳酸钙 tàn suān gài
T9 冰川 bīng chuān	T9 臭氧洞 chòu yǎng dòng	T9 栖息地破碎化 qī xī dì pò suì huà