

附录3 中国苏铁就地保护及其在保护区分布

Appendix 3 *In-situ* conservation of *Cycas* in China and their distribution in nature reserves

物种 Species	就地保护 In situ conservation	保护区级别 Level of reserve	现状 Status
宽叶苏铁 <i>C. balansae</i>	广西十万大山国家级自然保护区 Shiwandashan Mountain National Nature Reserve, Shiwandashan, Guangxi	国家级 National	D
	广西防城金花茶国家级自然保护区 <i>Camellia nitidissima</i> National Nature Reserve, Fangchenggang, Guangxi	国家级 National	C
叉叶苏铁 <i>C. bifida</i>	广西崇左白头叶猴国家级自然保护区 <i>Trachypithecus poliocephalus</i> National Nature Reserve, Chongzuo, Guangxi	国家级 National	C
	广西大新恩城国家级自然保护区 Encheng National Nature Reserve, Daxin County, Guangxi(Zheng et al, 2017)	国家级 National	F
	广西弄岗国家级自然保护区 Nonggang National Nature Reserve, Guangxi	国家级 National	D
	广西青龙山自治区级自然保护区 Qinglongshan Provincial Nature Reserve, Guangxi(Zheng et al, 2017)	省级 Provincial	F
	云南金平分水岭国家级自然保护区 Jinpingfenshuiling Mountain National Nature Reserve, Jinping County, Yunnan	国家级 National	F 或 D 之下 Below F or D
陈氏苏铁 <i>C. chenii</i>	云南恐龙河州级自然保护区 Konglonghe Municipal Nature Reserve, Yunnan	州市级 Municipal	C
	云南双柏县陈氏苏铁保护小区 <i>Cycas chenii</i> mini reserve, Shuangbai County, Yunnan	保护小区 mini reserve	C
	云南元江国家级自然保护区 Yuanjiang River National Nature Reserve, Yunnan	国家级 National	D
德保苏铁 <i>C. debaoensis</i>	广西百色大王岭省级自然保护区 Dawangling Mountain Provincial Nature Reserve, Baise, Guangxi	省级 Provincial	D 向 E 过渡阶段 transition phase from D to E
	广西黄连山一兴旺自治区级自然保护区 Huangliangshan 一 Xingwang Provincial Nature Reserve, Guangxi	省级 Provincial	A
	云南富宁县驮娘江省级自然保护区 Tuoniangjiang Provincial Nature Reserve, Funing County, Yunnan	省级 Provincial	D 向 C 过渡阶段 transition phase from D to C
滇南苏铁 <i>C. diannanensis</i>	云南哀牢山国家级保护区 Ailaoshan Mountain National Reserve, Yunnan	国家级 National	C
	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	B
	云南个旧市滇南苏铁保护小区 <i>Cycas diannanensis</i> mini reserve, Gejiu, Yunnan	保护小区 mini reserve	C
	云南红河阿姆山省级自然保护区 A'mushan Mountain Provincial Nature Reserve, Honghe County, Yunnan(Zheng et al, 2017)	省级 Provincial	E
	云南金平县滇南苏铁保护小区 <i>Cycas diannanensis</i> mini reserve, Jinping County, Yunnan	保护小区 mini reserve	C
	云南恐龙河州级自然保护区 Konglonghe Municipal Nature Reserve, Yunnan	州市级 Municipal	B
长叶苏铁 <i>C. dolichophylla</i>	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	C
	云南麻栗坡老山省级自然保护区 Laoshan Provincial Nature Reserve, Malipo County, Yunnan	省级 Provincial	B
	云南马关古林箐省级自然保护区 Gulinqing Provincial Nature Reserve, Maguan County, Yunnan	省级 Provincial	B
	云南纳板河流域国家级自然保护区 Nabanhe River Basin National Nature Reserve, Yunnan	国家级 National	B
	云南西双版纳国家级自然保护区 Xishuangbanna National Nature Reserve, Yunnan	国家级 National	B
锈毛苏铁 <i>C. ferruginea</i>	广西百色市百东河市级自然保护区 Baidonghe River Municipal Nature Reserve, Baise, Guangxi	州市级 Municipal	D
	广西弄岗国家级自然保护区 Nonggang National Nature Reserve, Guangxi	国家级 National	C
	广西平果县达洪江县级水源林保护区 Dahongjiang River County Water Resource Forest Reserve, Pingguo County, Guangxi	县级	C

物种 Species	就地保护 In situ conservation	保护区级别 Level of reserve	现状 Status
贵州苏铁 <i>C. guizhouensis</i>	广西大哄豹自然保护区 Dahongbao Provincial Nature Reserve, Longlin County, Guangxi	省级 Provincial	D
	广西金钟山黑颈长尾雉国家级自然保护区 Jinzhongshan Mountain Symmaticus humiae National Nature Reserve, Guangxi	国家级 National	D
	贵州望谟县级苏铁自然保护区 Cycas County Nature Reserve, Wangmo County, Guizhou	县级	B
	贵州仙鹤坪县级自然保护区 Xianheping County Nature Reserve, Anlong County, Guizhou	县级	F
	贵州兴仁清水河州级自然保护区 Qingshuihe River State-level Nature Reserve, Xingren County, Guizhou	州市级 Municipal	F
	贵州兴义市坡岗州级自然保护区 Pogang Provincial Nature Reserve, Xingyi, Guizhou	省级 Provincial	D
	云南罗平鲁布革自然保护区 Buluge County Nature Reserve, Luoping County, Yunnan	县级 County	F
	云南罗平万峰山自然保护区 Wanfengshan Mountain Municipal Nature Reserve, Luoping County, Yunnan(Zheng et al, 2017)	州市级 Municipal	D
	云南丘北省级自然保护区 Qiubei Provincial Nature Reserve, Yunnan	省级 Provincial	F
	云南省师宗县翠云山自然保护区 Cuiyunshan Mountain Nature Reserve, Shizong County, Yunnan	县级 County	E
	云南省师宗县菌子山市级自然保护区 Junzishan Mountain Municipal Nature Reserve, Shizong County, Yunnan	州市级 Municipal	D
	云南师宗丁累大箐自然保护区 Dingluodaqing Nature Reserve, Shizong County, Yunnan	县级 County	F
	云南向阳省级自然保护区 Xiangyang Provincial Nature Reserve, Yunnan	省级 Provincial	F
灰干苏铁 <i>C. hongheensis</i>	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	A
长柄叉叶苏铁 <i>C. longipetiolula</i>	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	F
多羽叉叶苏铁 <i>C. multifrondis</i>	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	F
多歧苏铁 <i>C. multipinnata</i>	云南大围山国家级自然保护区 Daweishan Mountain National Nature Reserve, Yunnan	国家级 National	E
	云南金平分水岭国家级自然保护区 Jinpingfenshuiling Mountain National Nature Reserve, Jinping County, Yunnan	国家级 National	E
攀枝花苏铁 <i>C. panzhihuaensis</i>	四川凉山螺髻山省级自然保护区 Luojishan Mountain Provincial Nature Reserve, Liangshan, Sichuan(Zheng et al, 2017)	省级 Provincial	F
	四川攀枝花苏铁国家级自然保护区 Cycas panzhihuaensis National Nature Reserve, Panzhihua, Sichuan	国家级 National	A
	云南轿子雪山国家级自然保护区 Jiaozixueshan National Nature Reserve, Luquan County, Yunnan	国家级 National	B
	云南禄劝省级自然保护区 Luquan Provincial Nature Reserve, Luquan County, Yunnan	省级 Provincial	B
	云南元谋土林自然保护区 Tulin Municipal Nature Reserve, Yuanmou County, Yunnan	市级 Municipal	F
篦齿苏铁 <i>C. pectinata</i>	云南纳板河流域国家级自然保护区 Nabanhe River Basin National Nature Reserve, Yunnan	国家级 National	C
	云南糯扎渡省级自然保护区 Nuozhadu Provincial Nature Reserve, Lancang County, Yunnan	省级 Provincial	C
	云南省景洪市大渡岗野生苏铁保护小区 Dadugang Wild Cycas mini reserve, Jinghong, Yunnan	保护小区 mini reserve	C
	云南省景洪市苏铁保护小区 Cycas mini reserve, Jinghong, Yunnan	保护小区 mini reserve	C
	云南铜壁关省级自然保护区 Tongbiguan Provincial Nature Reserve, Yingjiang County, Yunnan	省级 Provincial	C

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	云南西双版纳国家级自然保护区 Xishuangbanna National Nature Reserve, Yunnan	国家级 National	C
苏铁 <i>C. revoluta</i>	-	-	E
叉孢苏铁 <i>C. segmentifida</i>	广西岑王老山国家级自然保护区 Cenwanglaoshan Mountain Nature Reserve, Guangxi	国家级 National	F
	广西大哄豹自然保护区 Dahongbao Provincial Nature Reserve, Longlin County, Guangxi(Zheng et al, 2017)	省级 Provincial	F
	广西龙虎山自治区级自然保护区 Longhushan Mountain Provincial Nature Reserve, Guangxi	省级 Provincial	C
	广西王子山雉类自然保护区 Wangzishan Mountain Pheasant Provincial Nature Reserve, Xilin County, Guangxi	省级 Provincial	F
	广西西林县那佐苏铁自治区级自然保护区 Nazuo <i>Cycas</i> Provincial Nature Reserve, Xilin County, Guangxi	省级 Provincial	F
	广西雅长兰科植物国家级自然保护区 Yachang Orchidaceae Plant National Nature Reserve, Leye County, Guangxi	国家级 National	B
	贵州望谟县渡邑南亚热带沟谷季雨林自然保护区 Duyi South Subtropical Valley Monsoon Forest County Nature Reserve, Wangmo County, Guizhou	县级 County	F
	贵州望谟县苏铁自然保护区 <i>Cycas</i> County Nature Reserve, Wangmo County, Guizhou	县级 County	B
	云南广南县八宝省级自然保护区 Babao Provincial Nature Reserve of Guangnan County, Yunnan	省级 Provincial	D
	云南驮娘江省级自然保护区 Tuoniangjiang River Provincial Nature Reserve, Yunnan	省级 Provincial	D
六籽苏铁 <i>C. sexseminifera</i>	广西崇左白头叶猴国家级自然保护区 Trachypithecus poliocephalus National Nature Reserve, Chongzuo, Guangxi	国家级 National	C
	广西大明山国家级自然保护区 Damingshan Mountain National Nature Reserve, Guangxi	国家级 National	F
	广西大新恩城国家级自然保护区 Encheng National Nature Reserve, Daxin County, Guangxi	国家级 National	C
	广西扶绥邕盆自然保护区 Bapen Nature Reserve, Fusui County, Guangxi	-	C
	广西扶绥县渠楠屯白头叶猴保护小区 Qunantun Village Trachypithecus poliocephalus mini reserve, Fusui County, Guangxi	保护小区 mini reserve	A
	广西扶绥县中华村黑叶猴保护小区 Trachypithecus francoisi mini reserve, Zhonghua Village, Fusui County, Guangxi	保护小区 mini reserve	C
	广西龙虎山自治区级自然保护区 Longhushan Mountain Provincial Nature Reserve, Guangxi	省级 Provincial	C
	广西弄岗国家级自然保护区 Nonggang National Nature Reserve, Guangxi	国家级 National	D
	广西青龙山自治区级自然保护区 Qinglongshan Mountain Provincial Nature Reserve, Longzhou Country, Guangxi	省级 Provincial	C
	广西三十六弄一陇均自治区级自然保护区 Lane 36 Longjun Nature Reserve, Guangxi	省级 Provincial	F
	广西西大明山自治区级自然保护区 West Daming Mountain Provincial Nature Reserve, Guangxi	省级 Provincial	C
单羽苏铁 <i>C. simplicipinna</i>	云南纳板河流域国家级自然保护区 Nabanhe River Basin National Nature Reserve, Yunnan	国家级 National	D
	云南糯扎渡省级自然保护区 Nuozhadu Provincial Nature Reserve, Yunnan	省级 Provincial	B
	云南威远江省级自然保护区 Weiyuanjiang River Provincial Nature Reserve, Yunnan	省级 Provincial	C
	云南西双版纳国家级自然保护区 Xishuangbanna National Nature Reserve, Yunnan	国家级 National	B
四川苏铁 <i>C. szechuanensis</i>	广东梅林水库仙湖苏铁自然保护小区 Meilin Reservoir <i>Cycas fairylekea</i> mini reserve, Shenzhen, Guangdong	保护小区 mini reserve	A
	广东南岭国家级自然保护区 Nanling Mountain National Nature Reserve, Guangdong	国家级 National	F

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台东苏铁 <i>C. taitungensis</i>	海岸山脉台东苏铁自然保护区 Coastal Mountains <i>Cycas taitungensis</i> Provincial Nature Reserve, Taiwan	省级 Provincial	B
	台湾台东苏铁自然保护区 <i>Cycas taitungensis</i> Provincial Nature Reserve, Taiwan	省级 Provincial	B
台湾苏铁 <i>C. taiwaniana</i>	海南霸王岭国家级自然保护区 Bawangling Mountain National Nature Reserve, Hainan(王馨慧, 2019)	国家级 National	F
	海南昌江保梅岭省级自然保护区 Baomeiling Mountain Provincial Nature Reserve, Changjiang County, Hainan(吴二焕等, 2021)	省级 Provincial	-
	海南吊罗山国家级自然保护区 Diaoluoshan Mountain National Nature Reserve, Hainan(王馨慧, 2019)	国家级 National	F
	海南甘什岭省级自然保护区 Ganshiling Mountain Provincial Nature Reserve, Hainan(王馨慧, 2019)	省级 Provincial	-
	海南陵水县南湾省级自然保护区 Nanwan Provincial Nature Reserve, Lingshui County, Hainan(王馨慧, 2019)	省级 Provincial	-
	海南三亚抱龙国家森林公园 Baolong National Forest Park, Sanya, Hainan	筹建 building	-
	海南三亚河红树林市级自然保护区 Mangrove Municipal Nature Reserve of Sanya River, Hainan	州市级 Municipal	-
	海南铜鼓岭国家级自然保护区 Tongguling Mountain National Nature Reserve, Hainan	国家级 National	-
	海南五指山国家级自然保护区 Wuzhishan Mountain National Nature Reserve, Hainan	国家级 National	-
	海南鹦哥岭国家级自然保护区 Yinggeling Mountain National Nature Reserve, Hainan(个人通讯, 2021, 鹦哥岭保护区)	国家级 National	C
谭清苏铁 <i>C. tanqingii</i>	云南绿春黄连山国家级自然保护区 Huanglianshan National Nature Reserve, Luchun County, Yunnan	国家级 National	B

1. 根据文献查阅及多年实地考察, 将保护区内野生苏铁植物居群保护现状由高质量到低质量分为 A, B, C, D, E, F 共 6 个等级, 供读者参考。以下为划分等级的解释。A(优: 指居群得到较好保护, 得到科学恰当的抚育, 植株数量增加, 未病虫害或病虫害被清理, 居群健康)、B(良: 指居群得到一定保护, 有一定抚育措施, 植株数有一定增加, 病虫害轻微, 种群较健康)、C(中: 指居群得到保护, 也无破坏, 无居群抚育措施, 病虫害轻微, 数量不变, 种群稳定)、D(差: 指居群未得到保护抚育, 居群遭受采挖或生境一定程度被破坏, 病虫害较严重, 居群植株数一定程度减少)、E(灭绝或濒临灭绝: 指居群未得到任何保护, 采挖、收购、生境破坏等较严重, 病虫害严重, 居群灭绝或濒临灭绝)、F(情况不明)。

2. 个人通讯是指联系过有关负责人或经手人, 确认过实物、照片或标本。

1. According to literature review and years of field investigation, the protection status of wild cycad populations in the reserve is divided into 6 grades from high quality to low quality, A, B, C, D, E, and F; so that these assessment could be readers' reference. The following is an explanation of the grades. A (Excellent: The population is well protected, scientifically and properly tended, the number of plants increases, no pests or diseases are cleaned up, and the population is healthy); B (Good: The population is protected with certain measures. The number of plants has increased to a certain extent, the number of pests and diseases is mild, and the population is relatively healthy); C (Middle: The population is protected, and there is no damage, no population managing measures, the number of diseases and insect pests is mild, the number and population are stable); D (Poor: This means the population is stable. The population has not been protected and managed, the population has been dug or the habitat has been destroyed to a certain extent, the disease and insect pests are more serious, and the number of plants in the population has decreased to a certain extent); E (Extinct or endangered: the population without any protection. The damage such as excavation, acquisition, habitat destruction, pests and diseases etc. are more serious. Population is extinct or endangered); F (Unknown situation).

2. Personal communication refers to the former information which has been confirmed by contacting with the person who knows the information, or checking the physical object, photo or specimen.