Universal Multiple-Octet Coded Character Set UCS	

Source:	UTC
Title:	UTC/US Urgently-needed Character Submission
Meeting:	IRG #42
Status :	
Actions required	
Distribution:	IRG
Medium :	Electronic
Page:	
References:	

This UTC/US urgently-needed character submission consists of the following documents:

IRG N2005A: This document
IRG N2005B: Proposal summary form from the IRG P&P
IRG N2005C: A table of the proposed characters and key attributes
IRG N2005D: A Excel spreadsheet with character attributes (main data file)
IRG N2005E: A zip archive of bitmaps
UTCHan.ttf: A font containing glyphs for all the characters

The table (document C) includes the following attributes:

   A. The U-source identifier
   B. The character's glyph
   C. The character's IDS (if any)
   D. The KangXi radical (number form)
   E. The KangXi radical (character form)
   F. The number of additional strokes
   G. The stroke type of the first additional stroke
   H. An indication of whether the character is for traditional Chinese (TC) or simplified Chinese (SC)
   I. A character of which the proposed character is a variant. In the case of SC characters, the variant is the traditional form(s) (if encoded)
   J. The code point of the variant character

The Excel spreadsheet (document D) includes the following attributes:

A. The U-source identifier

B. The name of the file containing the bitmap for the glyph (always the identifier + ".bmp")

C. The KangXi radical (code point) plus an additional 0 or 1 indicating that the character is traditional Chinese or simplified Chinese, respectively

D. The number of additional strokes

E. The stroke type of the first additional stroke

F. An indication of whether the character is for traditional Chinese (0) or simplified Chinese (1)

G. The character's IDS

H. The code point of a character of which the proposed character is a variant. In the case of SC characters, the variant is the traditional form(s) (if encoded)

I. The PUA code point for the character's glyph in UTCHan.ttf font.

Note that all the data required by IRGN1920 2.2.1 and Annex G.1 is included in the Excel spreadsheet.

Rational for "Urgent Need" and Evidence

In general, the characters included here have sufficiently established current use that we feel it inappropriate to wait for encoding in Extension G, which would otherwise be the earliest opportunity.

UTC-00953 is a recent coinage for a newly-synthesized chemical element, copernicium. As such, it is required for the periodic table of the elements and other common reference works for chemistry and physics. It is the only simplified Chinese character for a currently-known element not yet encoded.

UTC-00954, UTC-00957, and UTC-00958 are comparatively common fish and plant names, found in standard reference materials in both simplified and traditional Chinese.

UTC-00959 is required by the catalogue of the Morrison collection, a major Western collection of old Chinese books and manuscripts at the SOAS at London University.

Specific evidence is below.

UTC-00953，from http://baike.baidu.com/subview/1861163/5643972.htm?fromtitle=鿔哥&fromid=3513748&type=syn (fetched 15 May 2014)

鿔（化学元素） ✏编辑

鿔哥 即 鿔（化学元素）。

2010年2月19日，于1996年被合成出来的第112号元素被正式命名为"Copernicium"，符号为Cn，中文译名为"鿔"。此名称是为了纪念著名天文学家哥白尼（Copernicus）而得名的。

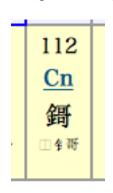| 目录	1 简述
	2 理化特性
	3 历史
	▪ 发现
	▪ 名称
	4 核合成
	▪ 冷聚变
	▪ 热聚变
	5 衰变产物

1 简述 ✏编辑

于2010年2月19日被命名。第112号化学元素，英文copernicium，缩写Cn（为纪念哥白尼），读音为"gē"。

德国重离子研究中心于1996年在粒子加速器中用锌离子轰击铅靶首次成功合成了第112号化学元素的一个原子，2002年重复相同的实验又制造出一个第112号化学元素的原子。此后，日本的一个研究机构于2004年也合成了这种元素的两个原子，从而证实德国科学家的发现。

新元素原子质量约为氢原子质量的277倍，是得到国际纯粹与应用化学联合会正式承认的最重的元素。为金属元素，具有强放射性。

鿔的简化汉字 [1]

UTC-00953, from http://kanji-database.sourceforge.net/tables/periodic.html (fetched 15 May 2014)

112
Cn
鿔
□ 鿔哥

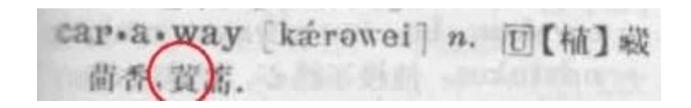|				
Cm	96	鋦	锔	Curium
Cn	112	鎶	钅哥	Copernicium
Co	27	鈷	钴	Cobalt

UTC-00954, from Zheng Lan-ping, Chen Xiao-yong, Yang Jun-xing, "Composition and Status of Fishes of Nanla River in Xishuangbanna, Yunnan, China"; Zoological Research 2009(3): 334-340.

附录Ⅰ 云南省南拉河鱼类名录
Appendix Ⅰ   List of Fishes in Nanla River, Yunnan, China

中文名 Chinese name	拉丁名 Latin name
Ⅰ. 鲤形目	CYPRINIFORMES
鲤科	Cyprinidae
1. 金线鱼丹	*Danio chrysotaeniata*
2. 斑尾低线鱊	*Barilius caudiocellatus*
3. 丽色低线鱊	*Barilius pulchellus*
4. 长嘴鱊	*Raiamas guttatus*
5. 高体鳑鲏*	*Rhodeus ocellatus*
6. 异斑小鲃	*Puntius ticto*
7. 中国结鱼	*Tor sinensis*
8. 云南吻孔鲃	*Poropuntius huangchunchieni*
9. 棱吻孔鲃	*Poropuntius carinatus*

UTC-00957, from Jiǎnmíng Yīng-Hàn Cídiǎn p.135.

car·a·way [kǽrəwei] *n.* 回【植】蒌蒿 茴香. 贺荷.

UTC-00958, from *Hénán Zhíwù Zhì* 河南植物志 (1981-1998), vol.3 p.150.

15. 黄蒿属　*Carum* L.

二年或多年生草本,高30cm～80cm,根肉质。茎直立,分枝,上部2叉状。基生及下部的叶柄具鞘,中、上部叶有短柄或无柄;叶片二至三回羽状分裂,末回裂片线形或披针形,全缘。复伞形花序顶生或侧生,总苞和小总苞片无或1个～10个,线形或披针形;小伞形花序有花4朵～30朵,花两性或杂性;萼齿不显;花瓣白色或红色,倒卵形,顶端凹陷有内折小舌片;花柱基圆锥形。果实长卵形或卵形,侧扁,果棱明显;每棱槽中有油管1个,稀3个,合生面2条～4条。

有25种～30种,分布于欧洲、亚洲、北非及北美。我国有4种,2变型。河南有2种。

1.茎生叶鞘有宽白色膜质边缘。小总苞片无偶有1个～3个,披针形;小伞形花序有花5朵～15朵。果实长4mm～5mm ·· (1)黄蒿 *Carum carvi* L.
1.茎生叶鞘白色膜质边缘狭。小总苞片5个～8个,线形;小伞形花序有花15朵～25朵。果实长3mm～4mm ·· (2)田黄蒿 *Carum buriaticum* Turcz.

(1)黄蒿　葛缕子 *Carum carvi* L. (图1696　7～8)

二年生或多年生草本,高30cm～80cm,无毛。根圆锥状,肉质。茎直立,上部分枝。基生叶

UTC-00958, from *Héběi Zhíwù Zhì* 河北植物志 (1986-1991), vol.2 p.256.

2.田葛缕子　田黄蒿 (图1160)

Carum buriaticum. Tvrcz. in Bull. Soc. Nat Mosc. 11: 92. 1838. nom. nud. id. 17:713.1844. describ; 中国高等植物图鉴 2:1070. 图3869.1972.

二年生草本, 高30—70厘米, 无毛。根纺锤形, 肥厚。茎直立, 基部被淡褐色基生叶残迹。基生叶具长柄, 轮廓长圆状

UTC-00959, from Andrew West, *Catalogue of the Morrison Collection of Chinese Books* (SOAS, 1998), p.16.

Zengbu Man-Han zhuanzihui. 1762. RM 166.

A dictionary of Chinese characters. Compiled by Mei Yingzuo (c.1570-?) in 1615. This edition also gives the seal script form and a phonetic reading in the Manchu script for most characters. Appended are two tables by Mei Yingzuo of the possible phonetic combinations in Chinese, one arranged by rhyme and the other by alliteration. Cf. Simon & Nelson, *Manchu Books in London* II.14.

ff. 3, 3, 6, 29, 54, 51, 50, 51, 52, 53, 69, 66, 61, 71, 55, 54, 45.

RM CK494.13 166. 20 fascs. in 3 vols. 23.5 cm.

《增補滿漢篆字彙》十二集，首一卷，末一卷。（明）梅膺祚音釋，（明）廖百子（廖文英）纂輯。

清乾隆二十七年（1762）刻本，帶月樓藏版。

版式：版框 20.5 x 14.3 公分；四周單邊；11 行 20 字，小字雙行 36 字。

扉頁：鐫"乾隆壬午〔27 年〕春刻；梅挺生先生原本；帶月樓藏板；《增補滿漢篆書字彙》"。

內容：末卷收《韻法直圖》、《韻法橫圖》。

序跋：康熙壬子（11 年）冀鼎琴序。

Zengbu Man-Han zhuanzihui 增補滿漢篆字彙 (RM CK494.13 166): title-page.