

Revised proposal to encode NEPTUNE FORM TWO

Eduardo Marin Silva
















02/08/2017

Changes. This form is only different in that a proposal summary has been added, the glyph has been better described an extra figure has been added.

Introduction. Unicode encodes a lot of astronomical and astrological symbols, with the recently approved characters for Pluto and my personal discovery that Uranus has two symbols, I wondered if there were any gaps left to fill for the planets and turns out there is.

This symbol for Neptune although not widely used is historically significant, since its design is meant to be composed of the letters L and V, which makes reference to its discoverer Le Verrier, with a globe below it to represent the planet; similar to the symbol for Uranus, with the H representing Herschel or Pluto, with the digraph PL representing Percival Lowell. Therefore encoding this symbol will aid in teaching the history of the discovery of the planet.

Evidence. I found evidence of this glyph in a Wikipedia article that lists it among the other accepted symbols for planets, and following the sources cited more evidence was found:

			(dec 128808)		Globe with equator and meridian ^{[9][41]} (alternative characters with similar shape: U+2295 ◉ CIRCLED PLUS, U+2A01 ⊕ N-ARY CIRCLED PLUS OPERATOR, U+1F310 🌐 GLOBE WITH MERIDIANS)
Mars	Ma		U+2642 (dec 9794)		Mars' shield and spear ^{[9][12][41]}
Jupiter	J		U+2643 (dec 9795)		The letter Zeta (for Zeus) ^[41]
Saturn	S		U+2644 (dec 9796)		Saturn's sickle or scythe ^{[9][12][41]}
Uranus	U		U+26E2 (dec 9954)		Platinum ^{[29][30]}
			U+2645 (dec 9797)		A globe surmounted by the letter H (for Herschel), ^[32] more common in older or British literature
Neptune	N		U+2646 (dec 9798)		Neptune's trident ^[9]
			N/A	N/A	A globe surmounted by the letters "L" and "V", (for Le Verrier), ^{[36][41]} more common in older, especially French, literature

Symbols for minor planets [edit]

Following Giuseppe Piazzi's discovery of Ceres, a group of astronomers ratified the name, which Piazzi had proposed. At that time, the sickle was chosen as a symbol of the planet.^[43]

Figure 1. https://en.wikipedia.org/wiki/Astronomical_symbols

X51. URANUS was the father of Saturn, and presided over astronomy. The symbol of this planet (♅) consists of the letter H, with a planet suspended from the cross-bar, in honor of Sir William Herschel, its discoverer.



This planet is popularly known by the name of Herschel, but astronomers now almost universally call it Uranus. It bears this name in the British *Nautical Almanac* for 1851, with the full consent of Sir John Herschel, the son of the great discoverer. It was first called *Georgium Sidus*, by Dr. Herschel, in honor of his royal patron, George III.

X52. NEPTUNE was the god of the seas, but the symbol of the planet (♆) is composed of an L and a V united, with a planet suspended from the hair-line of the V, in honor of Le Verrier, its discoverer.

This planet was first called *Le Verrier*, but is more generally known by the name of Neptune.

53. The MOON was called *Luna* by the Romans, and

Figure 2. <https://babel.hathitrust.org/cgi/pt?id=nyp.33433087588368;view=1up;seq=41> (page 35)

BEILAGE
 ZU N^o 581. DER ASTRONOMISCHEN NACHRICHTEN.

Name des neuen Planeten.

Nach einem unter dem 6^{ten} October von Herrn *Arago* erhaltenen Briefe, hat Herr *Le Verrier* sein unbestreitbares Recht, dem von ihm entdeckten Planeten einen Namen zu geben, an Herrn *Arago* übertragen. Zufolge dieses ihm übertragenen Rechtes giebt Herr *Arago* dem neuen Planeten den Namen des Entdeckers LEVERRIER, und hat für ihn das Zeichen



gewährt.

S.

Erste Beobachtungen von *Le Verrier's* Planeten.

Von Herrn Professor *Encke* habe ich folgende Micrometer-
 beob. erhalten, bei denen als Vergleichsstern ein Stern 9ter
 Größe gebraucht ist, dessen mittlere noch schärfer zu be-
 stimmende Position für 1846

	in AR.	in Decl.
Sept. 28	+15° 31' 6"	—0° 26' 3"
29	+14 29,6	—0 47,4
Octbr. 2	+11 13,7	—1 56,0
5	+ 7 02,2	—2 16,7

Figure 3. http://articles.adsabs.harvard.edu/cgi-bin/nph-article_query?1846AN.....25...81L&data_type=PDF_HIGH&whole_paper=YES&type=PRINTER&filetype=.pdf



Figure 4. Portrait of Le Verrier with the relevant symbol on the upper corners

Entry and name. Either point 2BC9 or 2BFF in the block Miscellaneous Symbols and Arrows block are suitable in my opinion. Other acceptable names include NEPTUNE EARLY FORM or NEPTUNE LV FORM.

2BC9 Ψ NEPTUNE FORM TWO

→ U+2646 Ψ NEPTUNE

Properties.

2BC9;NEPTUNE FORM TWO;So;0;ON;;;;N;;;;

**ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹**

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.
See also <http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest **Roadmaps**.

A. Administrative

1. Title:	Revised proposal to encode NEPTUNE FORM TWO
2. Requester's name:	<i>Eduardo Marin Silva</i>
3. Requester type (Member body/Liaison/Individual contribution):	<i>Individual Contribution</i>
4. Submission date:	<i>02/08/2017</i>
5. Requester's reference (if applicable):	
6. Choose one of the following:	
This is a complete proposal:	<input type="checkbox"/>
(or) More information will be provided later:	<input type="checkbox"/>

B. Technical – General

1. Choose one of the following:	
a. This proposal is for a new script (set of characters):	<input type="checkbox"/>
Proposed name of script:	
b. The proposal is for addition of character(s) to an existing block:	<input checked="" type="checkbox"/>
Name of the existing block:	<i>Miscellaneous Symbols and Arrows</i>
2. Number of characters in proposal:	
3. Proposed category (select one from below - see section 2.2 of P&P document):	
A-Contemporary	<input type="checkbox"/>
B.1-Specialized (small collection)	<input checked="" type="checkbox"/>
B.2-Specialized (large collection)	<input type="checkbox"/>
C-Major extinct	<input type="checkbox"/>
D-Attested extinct	<input type="checkbox"/>
E-Minor extinct	<input type="checkbox"/>
F-Archaic Hieroglyphic or Ideographic	<input type="checkbox"/>
G-Obscure or questionable usage symbols	<input type="checkbox"/>
4. Is a repertoire including character names provided?	<input checked="" type="checkbox"/> <i>Yes</i>
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?	<input checked="" type="checkbox"/> <i>Yes</i>
b. Are the character shapes attached in a legible form suitable for review?	<input checked="" type="checkbox"/> <i>Yes</i>
5. Fonts related:	
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	
6. References:	
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	<input checked="" type="checkbox"/> <i>Yes</i>
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?	<input checked="" type="checkbox"/> <i>Yes</i>
7. Special encoding issues:	
Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?	<input type="checkbox"/> <i>No</i>

8. Additional Information:

Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database (<http://www.unicode.org/reports/tr44/>) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

¹ Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? If YES explain	<i>Yes</i>
<i>This is a revised version requested by the ad hoc comitee</i>	
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? If YES, with whom? If YES, available relevant documents:	<i>No</i>
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference:	<i>No</i>
4. The context of use for the proposed characters (type of use; common or rare) Reference:	<i>Rare</i>
5. Are the proposed characters in current use by the user community? If YES, where? Reference:	<i>Unknown</i>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? If YES, is a rationale provided? If YES, reference:	<i>No</i>
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	<i>n/a</i>
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
11. Does the proposal include use of combining characters and/or use of composite sequences? If YES, is a rationale for such use provided? If YES, reference:	<i>No</i>
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? If YES, reference:	<i>No</i>
12. Does the proposal contain characters with any special properties such as control function or similar semantics? If YES, describe in detail (include attachment if necessary)	<i>No</i>
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	<i>No</i>