Latin glārea 'gravel'

Latin glārea 'gravel' is first attested in Cato Agr. 18.7.¹ 'de glarea et calce harenato primum corium facito'. The length of the vowel in the first syllable is guaranteed by Virgil's *Georgics* 2.212, Tibullus 1.7.59, and Lucan 4.302. Its etymology has remained rather hazy: Ernout & Meillet (1985: 276) announce merely "seulement des hypothèses incertaines", but Walde & Hofmann (1938-1954: I.605-6) connect it with the root of Lat. grānum 'seed, grain' (Goth. kaurn, OIr. grán etc.), Gothic ga-krōtōn* 'crush, break to pieces'² via dissimilation of the first *-*r*-. The same view is put forward by Feist (1939: 187) and IEW (390-1), who add a collection of more distantly related forms which will be discussed below. De Vaan (2008: 264, 271) is doubtful about the connection with grānum for semantic reasons.

Whether or not these etymologies are correct, another comparandum seems to have been missed up to now in discussions of the etymology of *glārea*. This is surprising, since the link is formally unproblematic and semantically identical. Middle and Modern Welsh *gro* 'gravel, shingle', Old Cornish *grou*, Middle Cornish *grow* 'sand, gravel' all go back to a preform **grāuā*, which probably also existed in Gaulish, on the basis of French *grève* 'sand, beach'.³ It seems obvious that this is the closest form to which Lat. *glārea* must be connected.

As noted by the etymological dictionaries, $gl\bar{a}rea$ is derived with the material suffix *-*eio*- (cf. Lat. *aureus* 'of gold'. For this suffix see Leumann 1977: 286, Weiss 2009: 273). The dissimilation of the sequence *-*r*...*r*- to *-*l*...*r*- is a sporadic change which is found inscriptionally in forms like *pelegrinus* (e.g. CIL 11.6473) for *peregrīnus* 'foreign', giving Italian *pellegrino*, French *pélerin* 'pilgrim' (Leumann 1977: 231, Weiss 2009: 155). Its occurrence in *glārea* may suggest a Vulgar Latin origin. Thus as the base form from which *glārea* was derived, we can reconstruct **grāro*- or **grārā*. If an Indo-European root lies behind this

¹ All references to texts as in the OLD.

² Actually only attested in the 3sg. pres. pass. *ga-krotuda*.

³ Breton *groa* 'sand, beach' is not a direct descendant of this word, but is a loan word from Old Western French *groie* (Old French *groe*) 'gravel, flat terrain made of gravel or sand', a derivative of **grāuā* (Anders Jørgensen p.c.).

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form it is quite plausible to reconstruct $*gr\bar{a}$ -ro-, beside $*gr\bar{a}$ - $\mu\bar{a}$ in Celtic.

In addition, there is some evidence for a form in Latin even closer to that of Celtic. In the modern Italian dialects we find a number of words which reflect $*gr\bar{a}\mu\bar{a}$, such as grava 'gravel' (Friulian), 'landslide' (Trentino). These are usually attributed to borrowing from Gaulish, but derivatives are found much further South in Italy than would be expected to be due to Gaulish influence, such as gravina 'ravine' (Apulia), '(pebbly) shore of a river' (Sicily), gravara 'rocky and gravelly material, carried by water; torrential flood' (Abruzzo).⁴ For this reason, Celtic $*gr\bar{a}\mu\bar{a}$ was taken to be a borrowing from a non-Indo-European substrate by Campanile (1976: 133-4). However, since $gl\bar{a}rea$ proves the existence of a form derived from the same root as Celtic $*gr\bar{a}\mu\bar{a}$ in Latin, it is a possibility that Latin also had $*gr\bar{a}\mu\bar{a}$ itself (perhaps restricted to Vulgar Latin).⁵

In principle, it would be formally possible to derive glārea itself from a form rather closer to *grāuā. A preform *grāuārā/o-, which would be identical to Abruzzese gravara, would not have given glārea, because *-u- was not lost between like vowels when the second vowel was stressed (cf. seuērus). But *grāuorā/o- would have given *grārā/o-, by loss of *-u- before *-o- followed by vowel contraction (Meiser 1998: 88, 92). However, it is difficult to see how we could motivate a preform *grau ora/o-.⁶ A possible starting point would be *grau o-, the singular to the collective *grāuā seen in Celtic and Italian, to which the denominal adjective suffix *-ro- was added (cf. luxuria 'indulgence' ~ *luksu-ro- \leftarrow luxus 'extravagance; Weiss 2009: 285), with subsequent substantivisation. But this suffix does not seem to be added to thematic formations.⁷ Alternatively, we could start from a root or stem *grāu- with the suffix *-ero-, which would give *grāuero- > *grāuoro- (*- μ e- > *- μ o-, cf. uomō 'vomit' < * μ emh_l-e/o-; Meiser 1998: 82). But although *-ero- is found in Latin (*līber* 'free' $< *h_1 leud^h$ -ero-,

⁴ See Giammarco (1969: 899), Cortelazzo & Marcato (1998: 228-9). I am grateful to Elda Morlicchio for advice on the Italian dialect forms.

⁵ If this is correct, of course, French *grève* is no longer evidence for the existence of $*gr\bar{a}\mu\bar{a}$ in Gaulish, since it could have come from Latin.

⁶ In principle, *grau ara/o- would also be possible, but this is even harder to motivate.

⁷ And in general thematic suffixes are seldom added to thematic stems in Latin. A possible exception is *mortuus* 'dead' if from **m_l*-*to*-*u₀*- rather than **m_l*-*tu₀*-, but this is usually explained as being due to interference from **m_l*-*u₀*- (cf. OIr. *marb* 'dead') and/or **g^wih₃*-*u₀*- > Lat. *uīuus* 'alive' (Ernout & Meillet 1985: 415; de Vaan 2008: 389-90).

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cf. Gk. ἐλεύθερος, *miser* 'wretched' < **mis-ero-*, cf. *maereō* 'be sad'; Weiss 2009: 286), it is hardly productive. Consequently, **grā-ro-* seems a more plausible preform for **glārea* than **grāųo-ro-/grāų-ero-*.

It remains possible that we should posit a substrate origin for both Lat. $gl\bar{a}rea$ and Celtic $*gr\bar{a}\mu\bar{a}$, but since $*gr\bar{a}\mu\bar{a}$ may also have existed in Latin (dialectal Italian grava), and since the suffix alternation $*gr\bar{a}-\mu\bar{a} \sim *gr\bar{a}$ -ro- is impeccably Indo-European, there is every reason to hope to find an Indo-European etymology.

What, then, is the most likely Indo-European root to which these words might belong? Since the link between Lat. glārea and Celtic *graua has not been previously identified, they have been attributed to different sets of cognates in the Indo-European languages, although occasionally with some cross-over, as we shall see. As noted above, the only close connections which have been previously suggested for glārea are Lat. grānum 'seed, grain', Goth. ga-krōtōn* 'crush, break to pieces', which are further attributed by IEW (390-1) to the same root as such forms as Ved. járanti (3pl.) 'make old', járant- 'old', Arm. cer 'old, old man', Gk. $\gamma \epsilon \rho \omega \nu$ 'old man', which go back to $\ast \hat{g}erh_2$ - (EWAia 577-8; LIV 165-6). Formally this a possible origin for Lat. glārea $< *\hat{g}_{rh_2}$ -ro-, $granum < *\hat{g}rh_2$ -no-, and Celtic and Italian $*graua < *\hat{g}rh_2$ -ueh₂ (but see below for *CrHu- in Latin). It is more problematic for Goth. ga-kroton* $< *gra/\bar{o}$ -de/o-, since it is difficult to think of a plausible derivational reason for the Schwebeablaut which an original *gre/oh2-de/o- would require. Apart from this, it is on the semantic side that this etymology is difficult, since it requires the Indo-European root to mean both 'grind down' and 'make old'. It is possible to understand a development 'grind down' \rightarrow 'make feeble' \rightarrow 'make old', but an argument might also be made for there originally having been two roots (LIV 165-6; de Vaan 2008: 264, 271), one being $*\hat{g}erh_2$ - 'make old', the other meaning 'grind down', the zero grade of which might be found in Ved. jūrvati 'grind, wear away' $< \hat{g}_{r}H$ -ue/o- alongside Lat. glārea and Celtic and Italian *grāuā. If the root had a full grade II we could also explain Goth. gakroton* more easily from *greh_{2/3}-de/o-.

However, Celtic $*gr\bar{a}\mu\bar{a}$ has traditionally been connected with a different set of cognates. Thus IEW (460-2) collects it together with forms including Gk. $\chi\rho\alpha\dot{\omega}$ * 'scrape, graze, wound slightly'⁸ < $*g^{h}ra\mu$ -e/o-, ON. grjón 'groats, meal', MHG. grien 'coarse sand' < $*g^{h}re\mu$ -no-, and a

⁸ Attested in the 3sg. aor. subj. χραύση, and in the 3sg. impf. compound ἐνέχραυε.

series of Germanic and Balto-Slavic forms with a suffix or root-enlargement *-d- such as ON. grjót 'gravel, stone',9 Lith. grűsti 'stamp, trample, crush', Lith. grūdas, Latv. grūds, grauds 'grain', OCS. gruda, Serbo-Croatian grùda 'lump' which together point to $*g^{h}reud$ - (and are also compatible with a laryngeal in the root).¹⁰ In all likelihood, however, Gk. χραύω* should be connected to Gk. ἔχραον (aor.) 'attack, assault' (Beekes 2010: 1646-7), although this is put under a separate heading by IEW (460). If, therefore, it is correct to maintain the connection of *graua (and hence glarea) with Gk. $\chi \rho \alpha \dot{\omega} \dot{\omega}$, all these forms should go back to the same root. On the basis of Lith. griáuju 'pull down, demolish', Gk. ζαχρηής 'attacking violently', Lat. ingruo 'attack', the root is reconstructed as $*g^{h}reh_{l}u$ - by LIV (202), with Gk. ἔχραον being explained as a super zero grade (following Peters 1980: 342). A root $*g^{h}reh_{2}u$ - is also possible, if the palatalisation in Lithuanian is secondary (which is preferred by Beekes 2010: 1645), but only if the Germanic and Balto-Slavic forms in $*g^h re\mu(d)$ - were to be kept separate from Lith. griáuju etc., since $*g^h reh_2 u$ - is not compatible with ON. grjón and ON. $grj \delta t < *g^h reu(d)$ -. If this were the case, both Lat. glārea and Celtic and Italian *grāuā would have to belong with Lith. griáuju etc. rather than ON. grjón etc., because they must belong to a root containing a laryngeal, in order to explain their long $*-\bar{a}$ -.

There is surely room for further research on the derivational histories of the forms discussed above. However, the brief discussion here allows us to consider the etymological possibilities that arise for Lat. *glārea*. If we start from $\hat{g}erh_2$ - 'grind down, make old', or separate the 'grind down' meaning into a separate root $\hat{g}r(e)h_{2/3}$ - we can set up $\hat{g}rh_{2(/3)}$ -*ro*- > $\hat{g}r\bar{a}ro$ - $\rightarrow gl\bar{a}rea$ without difficulty. The change $\hat{g}rh_{2(/3)}$ -*ueh*₂ > Vulgar Latin $\hat{g}r\bar{a}u\bar{a}$ > Italian *grava* may be more problematic, since $\hat{g}rh_{2(/3)}$ -*ueh*₂ would have given $\hat{g}aru\bar{a}$ according to Schrijver (1991: 293-301), cf. *caluus* 'bald' < $\hat{k}lH$ -*uo*-. But *caluus* cannot come directly from $\hat{k}aluo$ - if \hat{s} -*lu*- gave -*ll*- in Latin, as argued by Nussbaum (1997: 190-92; accepted by Weiss 2009: 162), citing e.g. *palleō* 'be pale' beside Lith. *paĨvas* 'light yellow'. So the development $\hat{c}rHu$ - > $\hat{c}caRu$ - in Latin may not be correct, which means that

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⁹ ON. *grjót* and its Germanic cognates are connected by Feist (1939: 187) with Lat. *glārea*, *grānum* (but without any mention of Celtic **grāuā*). His attribution of Skt. *grāvan*- 'rock used to press *soma*' to the same root, separating it from Goth. *-quaírnus* (and OIr. *bráu* MW. *breuan* 'quern') < **g*^w*reh*₂-*y*-*on*- is incorrect.

¹⁰ However, the Balto-Slavic long vowels and acute tone do not prove the existence of a laryngeal, because both could be caused by following *-d- by Winter's Law.

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* $\hat{g}rh_{2(/3)}$ - $\mu eh_2 > *gr\bar{a}\mu\bar{a}$ is possible. If the root is * $\hat{g}reh_2$ -, * $\hat{g}reh_2$ - μeh_2 would also be a possible reconstruction.¹¹ Since there is no completely reliable evidence for the outcome of * $C_{l}H\mu$ - in Celtic (Zair 2012: 90-91, 94-101), it is open to reconstruct * $\hat{g}rh_{2(/3)}$ - μo - or * $\hat{g}re/oh_{2/3}$ - μo - for * $gr\bar{a}\mu\bar{a}$.

Positing $*g^h reh_1 u$ - as the root of both $gl\bar{a}rea$ and Italian and Celtic $*gr\bar{a}\mu\bar{a}$ is perhaps more satisfactory semantically, particularly given the preponderance of Germanic forms in $*g^h reh_1 u(d)$ - with meanings 'gravel, sand'. But it is formally more difficult. The reconstruction $*gr\bar{a}\mu$ -o-ro- or $*gr\bar{a}\mu$ -ero- for $gl\bar{a}rea$ discussed above would be easier to motivate from this root, but the more plausible $*g^h rh_1$ -ro- could also be justified by assuming the root was really $*g^h reh_1(\mu)$ -, of the long diphthong type which sometimes appears without its final glide, as discussed by Mayrhofer (1986: 173-5) and Lindeman (1997: 118-21). In fact this is supported by Lithuanian $gr\dot{u}odas$ 'frost, frozen mud' $< *g^h r\bar{o}do - < *g^h roh_1 do$ -, which is linked with the other Baltic forms from this root by Fraenkel (1962-1965 I.173) and also lacks $*-\mu$ -.

Much more problematic is the question of whether $*g^{h}r$ - would give Latin gr-. The usual reflex of word-initial $*g^h$ - in Latin is h- (e.g. holus 'vegetables' $< \hat{g}^{h} elh_{3}$ -os), but there are differing opinions on its result before *-r- (and *-l-). According to one view (thus Meiser 1998: 103, Stuart-Smith 2004: 43), *g^h- gave g- before *-r- and *-l- (e.g. glaber 'smooth' $< *g^h lh_2 d^h$ -ro-, cf. ON. gladr 'shiny'; gramen 'grass' < $*g^{h}rh_{1}$ -s-mp, cf. Goth. gras 'grass'). But Weiss (2009: 163) takes the alternative view that it developed as usual to *hr- and thence to r-, as in $r\bar{a}uus$ 'grey' < * $\hat{g}^h r\bar{a}\mu o$ - (cf. OHG. $gr\bar{a}o$), $r\bar{u}dus$ 'broken stones, rubble' $< *g^h reud-os$ (cf. ON. grjót 'gravel, stone').¹² Meiser explains rāuus as due to borrowing from a Sabellic language (but does not discuss $r\bar{u}dus$). while Weiss (2009: 156) explains glaber as due to a dissimilation of aspirates in *glad^hro- < * g^h lad^hro- (but does not discuss grāmen). Proto-Indo-European $*g^h$ - would of course have given Celtic *g- before *-r- as in all other environments, and Celtic *grāuā could come from $*g^{h}rh_{1}$ -ueh₂ or $*g^{h}roh_{1}$ -ueh₂.

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¹¹ A reconstruction $*\hat{greh}_{3-\psi}eh_2$ might also be possible for Latin, since Schrijver (1991: 298-301) argues for delabialisation of $*-h_{3-} > *-h_{2-}$ before $*-\psi$. But the evidence is not strong.

¹² Derived, of course, from the root currently under discussion, if it does not somehow come from $*h_l reud^{h_-}$ 'red' (de Vaan 2008: 527-8).

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For those who take the view that $*g^h r$ - gave r- in Latin, only a derivation from $*\hat{g}erh_2$ - or $*\hat{g}reh_{2/3}$ - is acceptable. Otherwise $*g^hreh_1(\underline{u})$ - remains a further possibility. Given the array of possible cognates, the wider Indo-European context of Lat. $gl\bar{a}rea \leftarrow *gr\bar{a}ro$ - and Celtic and Italian $*gr\bar{a}u\bar{a}$ remains rather obscure, although to my mind a connection with $*g^hreh_1(\underline{u})$ - is preferable on the basis of the semantics. Whatever the answer, $gl\bar{a}rea$ and $*gr\bar{a}u\bar{a}$ must be considered together as close cognates, rather than separately, as has been the case up to now.

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Peterhouse, Cambridge CB2 1RD, United Kingdom naz21@cam.ac.uk Nicholas Zair

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