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T A I S U K E O K A D A

SOME NOTES ON *IG I³* 1032 AND THE CREWS OF ATHENIAN TRIREMES IN THE FIFTH CENTURY BCE

Introduction

IG I³ 1032, which I refer to hereafter as the Catalogue, is an inscription that consists of eleven fragments of Pentelic marble found in and around the Akropolis. The fragments were assembled by Laing (1966), who reconstructed the large inscription, which appears to contain a complete roster of eight complements of Athenian triremes. Laing's reconstruction was followed by Lewis' (*IG I³* 1032) and then was confirmed by Graham (1998).

The crews in the roster are arranged according to rank, function and legal status. The two trierarchs are at the top, followed by ten marines (*epibatai*), the petty officers (*hypēresia*) and, finally, the crew in three categories: citizens (*nautai astoi*), foreigners (*xenoi*) and slaves (*therapontes*)¹. One of the most striking features of the complements of the triremes is their high proportion of non-citizen crews, including slaves, who may have represented 20–60% of the complements. Since the publication of the Catalogue, there has been a heated debate over whether the roster reflects common Athenian practices. Many scholars have regarded it as exceptional, especially because of the large number of slaves.

In this paper, I argue that the complements of the crews in the Catalogue are fairly typical complements of Athenian triremes in the late fifth century. For this purpose, I discuss five aspects of the Catalogue: (1) its link to the battle of Arginusai/Aigospotamoi, (2) slave crews, (3) *epibatai*, (4) the way of manning the ships and (5) the nature of the document.

Link to Arginusai/Aigospotamoi

Although many scholars have linked the Catalogue to Arginusai or Aigospotamoi in attempts to interpret the high proportion of slave crews in the complements as exceptional, their arguments have been refuted. Early scholars assumed that the Catalogue was a casualty list for Arginusai, but the objections to this assumption are, as Graham (1992.264–265) rightly noted, too strong to overcome². First, if it represents the entirety of the complements of the triremes, it cannot be a casualty list, because even if the fleet was defeated, all the complements would hardly have been lost. Moreover, both of the two trierarchs would not have perished, because only one trierarch commanded the ship in a syntrierarchy. Second, all the fragments have been found in or near the Akropolis, not in Kerameikos, where the casualty lists were typically erected. Third, the roster is arranged by ships, whereas the casualty lists were usually arranged by tribes. Fourth, one of the trierarchs of Trireme 4, Morychos of Thria (I.409; *LGPN II* 3), has been identified as the son of Lachemoiros of the same deme, who dedicated an inscription (*IG II²* 4882) on the Akropolis in the early fourth century³.

Köhler (1883.179–180) argued that it was to honour the slaves who fought at Arginusai, which was rightly objected to by Sundwall (1915.135–136). Laing (1966.107–117) and Welwei (1975.84–86) supposed that it honoured the crews of the eight triremes that escaped from Aigospotamoi with Konon (*Xen.Hell.2.1.28*). Laing dated the honouring to after the battle of Knidos in 394, and Welwei assumed that the crews were honoured just after the battle. Yet, we could raise several objections to these arguments. First, as Graham (1992.265) pointed out, it is hardly conceivable that the crews who fled from the lost battle were honoured, especially in the volatile atmosphere just after the Arginusai trial. Second, Lewis

¹ Under the heading of *xenoi*, the metics are distinguished by their demes of residence and the other foreigners by their ethnika.

² Also see Bakewell 2008.154–155. Funke (1983.169 et n.83) regarded the Catalogue as a casualty list without associating it with Arginusai, though his argument was not strong enough to overcome the objections.

³ Meritt 1927.469–470; Laing 1966.82.

(1979.186 n.7) has suggested that dating it after the battle of Knidos is most likely late because of the strong resemblance of the hand of the Catalogue to that of the Erechtheion account of 408/7 and to the third hand in *IG I³* 101 (410/9). Third, the composition of the crews could hardly remain the same for ten years⁴. Fourth, there were most likely more than eight ships that escaped from the debacle⁵.

Other pieces of evidence for dating the inscription are unfortunately scarce⁶. Its Ionic letters would place it anywhere between the end of the fifth and the beginning of the fourth centuries⁷. The two trierarchs heading each complement of the crews indicate the syntrierarchy that would have existed by 409–405. Yet, as Graham (1992.265 et n.34) noted, this is a *terminus ante quem* for the origin of the system, rather than a *terminus post quem* for the Catalogue⁸.

There is internal evidence, however, that could be valid for dating the Catalogue: the foreign crews from ten allied states — Aphytos, Peparethos, Kynthos, Hestiaia, Naxos, Chios, Samothrake, Keos, Rhodos and Kimolos — most of whom were aboard Trireme 1 (ll.72–99). Some scholars have maintained that their presence does not reflect any political ties between their homelands and Athens, because foreign crews were not always recruited from formal allies⁹. Jordan (1975.71–72), however, plausibly stated that their presence does reflect political ties with Athens. We should notice not only Perikles' claim that foreign crews would be exiled if they served the enemy of their states (Thuc.1.143.2) but also that as soon as the Athenians learned of the revolt of Chios, they arrested all the Chians in their camp (Thuc.8.15.2)¹⁰. Moreover, the Chians, together with the Rhodiens and other allies, supplied fifty ships to the Peloponnesian navy in 406 (*Xen.Hell.*1.6.3). Jordan (1975.71–72 et 71 n.45) also pointed out that all the home countries of the foreign crews, with the exception of Kimolos, were founding members of the Delian League, which indicates that the League remained intact at that time.

Funke (1983.168 et n.80) objected to Jordan's argument and placed the Catalogue after 408 — but no later than the end of the fifth century — on the grounds that two Rhodian crews were designated as *RODI* (ll.93–94), which would have been unlikely before the *synoikismos* of Rhodos. However, as Gabrielsen (2000.180–185) indicated, the ethnic *Rhodioi/Rhodios* was widely used even before the beginning of the *synoikismos*, not only in literary texts such as Thukydides, but also at least in two inscriptions apart from the Catalogue¹¹. Gabrielsen (2000.200 n.18) definitely remarked that the appearance of these two *Rhodioi* can no longer be used for dating the Catalogue to after 408.

Thus, it is reasonable to suppose that the Catalogue dates from some time before the revolts of Chios and Rhodos in 413 and 412/411, respectively.

⁴ Cf. Funke 1983.166–167.

⁵ Eight (*Plut.Alc.*37.4, *Lys.*11.8; *Justin.*5.6.10); nine (*Xen.Hell.*2.1.28); ten (*Diod.Sic.*13.106.6; *Paus.*3.11.5); twelve (*Lys.*21.11). For the other references, see Krentz 1989.177.

⁶ Based on the prosopographical prominence of the tribe Erechtheis in the roster and the presence of a slave named Strombichides, Graham (1998.103–108) argued (inspired by Harold Mattingly) that the Catalogue commemorated the crews of eight ships that sailed from blockading Peiraion to Samos under the command of Strombichides in 412 (Thuc.8.15.1–16.1). Graham's argument could not be ruled out but seems rather weak. In the first place, the fleet of Strombichides, which not only failed to catch up with the fleet of Chalcideus but also fled from a larger enemy fleet, would not have been regarded as worthy of being commemorated with that extravagant inscription.

⁷ Laing 1966.94 et n.1.

⁸ An erroneous notion that the syntrierarchy was not known before 411 led Pope (1935.22) to regard the disastrous expedition to Eretria as the occasion commemorated.

⁹ Sundwall 1915.137; Laing 1966.69–70; Graham 1992.265.

¹⁰ The most likely scenario is that even mercenary sailors generally preferred to fight on the side of their native states. Hunt 1998.95.

¹¹ *IG I³* 1454, 1.30 (c.445–430); *IvO* 151 (Elis 464).

Slaves

For scholars, the most striking feature of the Catalogue is the high proportion of slaves. Each slave name in the nominative is followed by a name in the genitive, which has been regarded as the name of the slave's master. Although most of the masters' names recur among the officers — trierarchs, *epibatai* and other petty officers — seven names are assumed to be those of rowers (three are citizens; four are foreigners and metics). All of the officers and their slaves seem to have served on the same ship. Of the seven rowers, however, only two are found on board with their putative slaves¹².

Some scholars have explained the presence of slaves on board by arguing that even though they would at times have taken the oars, they were not regular rowers but were, rather, personal attendants of the ship's officers or of the *epibatai*¹³. This argument was refuted by Graham, who proposed an excellent interpretation of Thuc.7.13.2, in which Nikias reveals that the desertion of slaves crippled the Athenian fleet besieging Syrakusai. Graham (1992.258–259) rightly maintained that the deserting slaves must have been part of the regular rowers of the Athenian triremes. That these slave rowers were apparently distinct from the slaves from Hykkara, whom some crews substituted for themselves, also supports Graham's argument. Moreover, Graham (1992.260–263) demonstrated that at least some of the slave rowers accompanied free rowers by interpreting the cryptic phrase '*ep'automolias prophasei*' as referring to free rowers who deserted by claiming that they were pursuing their own runaway slaves.

We now have a solid foundation for showing that a larger part of the slaves on board, especially the slaves of free rowers, regularly rowed¹⁴. In fact, the Old Oligarch said that the slaves used to row with their masters ([Xen.] *Athe.pol.*1.19). Although there must have been some slaves who attended their masters on board, the number of slaves on some triremes in the Catalogue is apparently far more than the officers needed¹⁵. Thus, the slaves who did not serve their masters on board must have rowed, because the triremes had no room for unoccupied personnel to sit around.

That leads to another important issue. Scholars have pointed out that on some triremes, the slaves seem to have been too numerous to be accompanied by their masters¹⁶. Hunt (2006.27), following Laing (1966.138–139), suggested that slaves whose masters' names were not found among the free crew members on the ship would have been assigned by their masters' relatives or friends who were not on board¹⁷.

A comparison with a series of accounts of the construction of the Erechtheion (*IG I³ 474–479*) sheds light on this issue. This almost contemporaneous document shares very marked features with the Catalogue, and these similarities have attracted scholars' attention¹⁸. Here, we find that the craftsmen, both slave and free (metics and citizens), not only worked side by side on apparently similar tasks but also received equal pay for equal work¹⁹. What deserves explicit emphasis is that some of the slaves may

¹² For the free rowers and their possible slaves, see Graham 1992.266 n.40, 1998.98–99. Graham (1998.109) suggested that at least the latter two rowers (metic and foreigner) really rowed together with their slaves on board. Herzogenrath-Amelung (2017.56) stated without discussion that no citizen rower brought slaves with him.

¹³ Sargent 1927.273–274, 276; Casson 1966.36–37; Garlan 1988.164, 166.

¹⁴ Welwei 1974.88–89; Jordan 1975.223; Graham 1992.258–259 et 258 n.4, 1998.109–110; Hunt 1998.98.

¹⁵ Morrison et al. (2000.113) supposed that one of two gangs of five slaves attended the helmsman (*kybernētēs*), and the other, the bow officer (*prōiratēs*). Cf. Xen.*Anab.*5.8.20; Graham 1998.101–102. Moreover, the trierarch and some other petty officers, such as the pentekontarch, would have needed assistants. It is thus assumed that the slaves who attended a trireme's officers and *epibatai* probably made up about 10% of the complement. Laing 1966.93; Hunt 1998.97.

¹⁶ Laing 1966.136–137. Graham (1998.101–102) seemed to leave the question open.

¹⁷ Pope (1935.22 n.32) earlier indicated in that direction. Laing (1966.138–139) referred to Philonichos (l.169), an archer attended by Herakleides, slave of Philonichides (l.270) whom Laing regarded as a relative of the archer because of the rarity of their names.

¹⁸ The three categories—citizens, metics and slaves—were all represented among the craftsmen at the Erechtheion. The citizens bore the demotics, the metics were noted by the deme where they were registered, and the slaves were denoted by the genitive of the names of their masters. Randall 1953.200; Jordan 1975.261; Graham 1998.107–108; Hunt 1998.99, 2006.27–28.

¹⁹ Loomis 1998.108 et n.12. Feyel (2006.323) maintained that there was a distinction between tasks performed by freemen and those by slaves, and that the slaves were allocated to 'travail servile', since all of the slaves were either carpenters or masons. However, it may be simply because, as Randall (1953.204) pointed out, only the masons and the carpenters for whom there

not have worked with their masters²⁰. Some of them worked with a free craftsman who was not their owner²¹. It is probable that these slave craftsmen without masters were sometimes entrusted or leased to free craftsmen, who may have been relatives or business partners of their masters — and the slave craftsmen may have sometimes worked independently²².

In fact, it has been noted that it was common practice for slave owners to let their slaves work independently, levying a part of their earnings from them as rent (*apophora*) and allowing them to keep the rest. Such slaves were generally called *douloi misthophorountes* (rented slaves)²³. It is also notable that sailors of merchant ships — sometimes even the captains — were often *douloi misthophorountes* and owned by the proprietors of the vessels²⁴. The Old Oligarch ([Xen.] *Athen.pol.*1.20) said that helmsmen, after having trained in the merchant ship or passenger boat, embarked on the trireme. Moreover, Dem.4.36–37 attested that slaves ‘living apart [*chōris oikountes*]’, who were most likely identical to *douloi misthophorountes*, were able to be drafted to man the warships²⁵. The vague account of the Old Oligarch ([Xen.] *Athen.pol.*1.11) may have indicated this²⁶. On these grounds, we can reasonably maintain that some of the slaves who appear on board without their masters in the Catalogue were *douloi misthophorountes*.

What incentives encouraged the slave owners and the slaves themselves to engage in this practice? Given that the slave craftsmen at the Erechtheion were paid the same rate as their masters, the same was most likely true of the slave crews²⁷. In fact, Thukydides (3.17.4) in reporting that the Athenian hoplites, along with their attendants, were paid two drachmas each during the blockade of Poteidaia in 428, suggests that the same was true for naval personnel²⁸. The incentives for the slave owners and their slaves must have been as follows: First, the owners were able to, as the Old Oligarch ([Xen.] *Athen.pol.*1.11) implied, keep a portion of their slaves’ earnings as *apophora*. Second, seasonal naval services allowed the owners, who may have been farmers as well as craftsmen, to keep their slaves more fully employed. This must have been of great benefit to the owners, since the slaves were not able to be laid off. Third, we can deduce from a lease contract of slave miners (Xen. *Vect.*4.14) that it was the lessee who fed the slave crews and replaced casualties resulting from all kinds of hazards: injury, death and desertion²⁹.

was greatest demand had the capital to acquire and train slaves. In fact, there seems to be no difference between freemen and slaves in terms of tasks and pay.

²⁰ Kroisos (*IG.I³* 475, ll.67, 233, 255–256) and Gerys (ll.254, 290): slaves of Philokles; a slave of Herakleides (1.234); a slave of Dromon (1.187); Kerdon (*IG.I³* 476, ll.22, 88–89, 201, 237–238, 319) and Sokles (ll.90, 202–203, 239, 320): slaves of Axiopeithes; Onesimos: slave of Nikostratos (ll.206–207, 243–244, 443); Antidotos: slave of Glaukos (ll.210–211, 247). Cf. Randall 1953.202–203; Feyel 2006.33–35, 39, 41, 45, 49.

²¹ Kerdon and Sokles, whose master was Axiopeithes of Melite, always worked with Simias of Alopeke and his five slaves.

²² Randall (1953.204) speculated that some craftsmen trained cheap, unskilled slaves in order to profitably hire them out. As a matter of fact, Demosthenes (27.20) referred to slave craftsmen being leased.

²³ Although most of the evidence dates from the fourth century, it is likely that these types of slaves also existed in the fifth century. Aesch.1.97; Isae.8.35; Theophr. *Char.*30.15. One piece of evidence for the fifth century is [Xen.] *Athen.pol.*1.17. Kalinka 1913.131–132, 162; Randall 1953.206; Westermann 1955.12; Jones 1956.188.

²⁴ Dem.33.8–9; 34.10. Amit 1965.54.

²⁵ Kolbe 1901.45 et n.249; Westermann 1955.12; Jones 1965.188; Welwei 1974.102 n.144. Some scholars have suggested that the *chōris oikountes* were not slaves but freedmen, adducing mainly two sources: Dem.47.72 and Harp. (Suda.; Phot.). s.v.*tous chōris oikountes*. Sargent (1927.267 n.6) summarized the arguments made in this direction. The argument, however, is unsound, because all these sources attest only to the fact that the freedmen lived apart from their masters.

²⁶ The text, while much discussed, is difficult to interpret because of corruption. Even if the slaves were involved in non-military sectors, as some scholars have maintained (Kalinka 1913.129–130; Sargent 1927.272 n.3; Gelzer 1937.117; Amit 1965.32; Welwei 1974.91), it does not exclude the possibility that some slaves embarked on the warship. Jordan 1975.261–262; Graham 1992.262–263.

²⁷ Morrison et al. 2000.108; Bakewell 2008.153 et n.70.

²⁸ Pritchett (1971.16) seems to take for granted that it was only free crews who received pay.

²⁹ Jones 1956.189; Gauthier 1976.138–139. It has often been argued that slave owners would not have exposed their property to the hazards of war or desertion, far from home and supervision. Sargent 1927.273; Amit 1965.37. Welwei (1974.103) and Gabrielsen (1994.108) assumed the contribution of slave crews came from privates. Euxenides, a metic, was honoured for having offered twelve *nautai*, probably his slaves, in 306/5 (*IG II²* 554).

The slave crews were allowed to keep a part of their gross salary and were then able to afford to buy their freedom after several years³⁰.

Hunt (1998.87–95; 2006.30–31) pointed out that the recruitment of the slaves itself was not exceptional; rather, what was unusual and scandalous was that the slaves who fought at Arginusai were emancipated and even enrolled as citizens. Welwei (1974.95–96) and Graham (1992.267) argued in the same direction. Therefore, the presence of slave crews alone would not link the Catalogue to Arginusai. Moreover, Hunt (1998.98–99) maintained that it must have been possible and practical for Athens to use slave crews because four of the five largest Greek navies in the time of Peloponnesian War — the Korinthian, the Korkyrean, the Syrakusan and the Chian — also used slave crews.

Epibatai

In the Catalogue, the *epibatai* are always listed right after the trierarchs, which indicates that they had the second-highest status on the ships. Moreover, each of the *epibates* was most likely accompanied by at least one personal attendant, and some of their names imply that they were of high-borne³¹.

This image of the ‘elite *epibatai*’ appears to contradict two accounts of Thukydides, which have often been adduced to argue that the Athenian *epibatai* normally consisted of *thētes*. Thukydides (6.43.1) reported that the Athenian hoplites who embarked on ships for the Sicilian expedition in 415 consisted of 1,500 men from the register (*ek katalogou*) and 700 *thētes*, who served as *epibatai*³². In another account, Thukydides (8.24.2) stated that Athenian generals heading for Lesbos in 412 had hoplites *ek katalogou* serving as *epibatai* out of compulsion under their command. On the basis of these accounts, scholars have assumed that because the thetic *epibatai* apparently stood in contrast to the hoplites enrolled *ek katalogou*, the *epibatai* were normally recruited from the volunteer *thētes*, whereas the hoplites conscripted *ek katalogou* were obliged to serve on board in exceptional circumstances³³.

However, the argument that the *epibatai* consisted exclusively of *thētes* is incompatible with the ample evidence attesting to the fact that people of higher social standing served on board³⁴. In fact, on the eve of the battle of Salamis, Themistokles called up and addressed the *epibatai* (Hdt.8.83). During the expedition to Aitolia in 426, 120 of 300 *epibatai* under Demosthenes’ command died in battle. Thukydides (3.98.4; Cf. 95.2) described the dead soldiers as ‘the very finest men [*beltistoi*]’³⁵. Moreover, the *epibatai* poured out libations with the archons at the ceremonial departure of the Sicilian expedition (Thuc.6.32.1)³⁶. Andokides, an elite citizen, was accused in 399 of shying away from serving either as a horseman, hoplite, trierarch or *epibates* (Lys. 6.46). Andrewes (HCT V.56) rightly suggested that there was a conception that Andokides could have served as either a hoplite or an *epibates*. Jordan (1975.198) and Herzogenrath-Amelung (2017.54) also indicated the same idea. The image of an ‘elite *epibatai*’ is also supported by pictorial evidence. The gravestone of Demokleides, son of Demetrios, who died

³⁰ Given that a rower’s wage at the beginning of the Peloponnesian War was six obols a day, three of which represented the slave’s living expenses, Hunt (2006.38 n.67) assumed the following: the owner took two of the three remaining obols per day, and the slave took one; a sailing season of one hundred days yielded the slave one hundred obols per year. If the average price of a slave was 750 obols, the slave could buy his freedom after seven and half years of work.

³¹ Laing 1966.137–138; Herzogenrath-Amelung 2017.55–57. Hippodamas (I.284) was one of the *epibatai* and was thought to be the grandson of a person with the same name who was a general in 459. Laing 1966.76–79; Osborne-Byrne 1994.237.

³² This is the only mention of *thētes* in Thukydides. Rosivach (2002.41 n.21) regarded the referent not as a property class but, rather, as poor working folk. I prefer de Ste. Croix’s perspective (2004.20–21) that *thētes* refers to a property class.

³³ Busolt 1926.575 et n.1, 1206; Körte 1932.1030; Laing 1966.137 n.23; Dover (HCT IV) 310; Andrewes (HCT V) 56; de Ste. Croix 2004.21; van Wees 2001.59, 2004.210, 308 n.40, 2006.371; Hornblower 2008.815–816.

³⁴ Jordan 1975.195–203; Pritchard 2010.24 n.139; Herzogenrath-Amelung 2017.49–57.

³⁵ Gabrielsen 2002b, 211; Herzogenrath-Amelung 2017.54–55. Gomme (HCT II) 407–408 adhered to the accepted theory, whereas Andrewes (HCT V.56) expressed reservations about it. Hornblower (1991.514) was puzzled, and Morrison et al. (2000.110) suggested that they were a physically fit and elite force. Platon (*Leg.*706d) also referred to the *epibatai* as ‘the best part of the citizens [*to tōn politōn beltiston meros*]’. Cf. Herzogenrath-Amelung 2017.53.

³⁶ Morrison et al. 2000.110. Dover (HCT IV.296) took them as ‘representatives of the troop on board’ because it is improbable that the *thētes* poured libations.

around 400, pictures a man sitting at the prow end of a ship deck. A shield and a Korinthian helmet behind him indicate that he was an *epibatēs*. The quality of the stele testifies to the wealth of his family³⁷.

It is also evident that the *epibatai* of other states had a higher social standing. The Chian *epibatai* — who fought bravely in the battle of Lade in 494 — were referred to as ‘selected men [*andres logades*]’ (Hdt.6.15). Thukydides (1.55.1) reported that most of the Korkyraean citizens captured in the battle of Sybota in 433 were ‘the first men [*prōtoi*]’, who could not have been rowers and most probably were *epibatai*. Hermokrates, a Syrakusan general, consulted with his *epibatai* as well as his trierarchs and helmsmen before making decisions in 410/9 (Xen. *Hell.* 1.1.28)³⁸. Finally, Aristotle stated that ‘the naval mob [*nautikos ochlos*] does not have to belong to the polis because it is *epibatikon* — free men who belong to the army — who are in command on board the ship’ (Arist. *Pol.* 1327b6–10)³⁹.

In light of the overwhelming evidence that the *epibatai* were in fact higher-status soldiers, I will return to Thuc.6.43.1 and 8.24.2. The argument that the *epibatai* were exclusively recruited from the *thētes* is untenable. It is likely that not only the *thētes*, but also citizens from the other property classes, served as *epibatai*⁴⁰. Therefore, exclusive recruitment of the 700 *thētes* as *epibatai* in 415 must have been exceptional, which would explain Thukydides’ specific mention of them. Here, Thukydides must have been contrasting conscripts *ek katalogou* and volunteers from the *thētes*. In other words, Thukydides was drawing a distinction between different modes of recruitment rather than between the *thētes* and the other property classes⁴¹. That the Athenians recruited the *epibatai* on a voluntary basis is also supported by the inscription *IG I³* 60 (c.430), which records the dispatch of an Athenian fleet⁴². Here, each trireme was manned with five volunteer (*ethelontes*) *epibatai* (ll.10, 15–16). There is no mention of the property classes⁴³. As for Thuc.8.24.2, what is exceptional is that the *epibatai*, who were usually volunteers, were conscripted in 412.

Way of manning the ships

In the past, scholars have generally shared the view that although the tiremes were manned by conscripts during the Pentekontaetia, the conventional way of manning the ships was recruitment of volunteers by the trierarchs, which occurred from the late fifth century until 357, when the responsibility for providing the crews was transferred from the trierarchs to the state by the Periandros reform⁴⁴. Recently, this schematic model has been reconsidered. Hansen (1985.22–24) supposed that the conscription of citizens for naval service dating back to the fifth century was the typical way of manning warships in the fourth century; however, conscription was not used in all cases, and conscripts did not always constitute the entirety of the complement. Evidence for conscription can be found in Dem.14.22–23; 50.6; *IG I³* 1127–1131; and *SEG* 22.274. Miyaji (1987.7–11) maintained that already in the fifth century, there was conscription based on the deme registers and organized by tribes and *trittyes*, and thus recruitment of volunteers by the trierarchs was not the typical mode of manning the warships but rather a voluntary contribution. Miyaji (1987.4) also pointed out that the silence of the sources does not indicate the absence of conscription, while the Athenians seemingly resorted to conscription only in

³⁷ Jordan 1975.198; Strauss 2000.262–264 et 263 fig.1; Okada 2015.20; Herzogenrath-Amelung 2017.46–47.

³⁸ Krentz 1989.103.

³⁹ Herzogenrath-Amelung 2017.53–54.

⁴⁰ I do not deny that the wealthy *thētes* could serve as *epibatai*. As van Wees (2001) maintained, some of the *thētes* may have begun serving over time as hoplites and ended up comprising no small part of the hoplites in the Classical period. Cf. Okada 2017. I am grateful to my colleague, Professor Asako Kurihara, for her remark.

⁴¹ Pritchard 2010.24–25. Jordan (1975.196–197) suggested that the thetic *epibatai* for the Sicilian expedition were exceptional. Also see Herzogenrath-Amelung 2017.50–51.

⁴² It has been widely held that the decree cannot be associated with the Athenian expedition against Melos in 416/5 and that the fleet was supposed to levy tributes from allies. Meritt 1953.300–303; Eberhardt 1959.284–314; Seaman 1997.403–404. Mattingly (1990.111–112) suggested that the establishment of the tribute-collecting fleet should be dated to soon after the reassessment of 425, while Meritt (1953.301–302) put it in the 430s.

⁴³ Jordan 1975.201–203; Gabrielsen 2002a.92; Herzogenrath-Amelung 2017.51.

⁴⁴ Armstrong 1949.34–95; Busolt 1926.574; Jameson 1963.398–399; Amit 1965.48. Discussions are summarized by Miyaji (1987.2–3).

emergencies in the late fifth century. Gabrielsen (1994.107–108), however, argued that conscription was not the rule but the exception for most of the fifth and the entirety of the fourth centuries, stating also that it was ineffective and that recruitment by trierarchs was always the rule.

We have strong grounds for believing that in the late fifth century, the supposed date of the Catalogue, manning done by trierarchs was the rule, while the Athenians may have resorted to conscription occasionally. Critical evidence is provided by Thuc.6.31.3, in which Thukydides mentioned a division of roles for getting ships and crews ready: the state paid crews the basic wage and provided the ‘empty ships [*naus kenas*]’ and the *hypēresia* to man them, whereas the trierarchs were supposed to recruit volunteer crews⁴⁵. The argument for understanding *naus kenas* as ships without equipment is invalid, because it was always the state that furnished gear⁴⁶. The alternative proposed by Armstrong (1949.64–67) and Miyaji (1987.10) — that is, adopting *kainas* (new) found in a minor MS — is not sufficiently plausible. The mention of *naus kenas* in Dem.3.5; 4.43 also suggests empty ships without crews⁴⁷. Sources from the late fifth century (Isoc.18.60; Lys.21.10) confirm this division of roles between the state and trierarchs, because what the litigants, trierarchs stressed here was not that they manned the warships, but that they themselves provided rowers with a wage and recruited the *hypēresia*, which were typically furnished by the state.

At this point, we can understand how the Athenians manned the triremes in the Catalogue. A conspicuous feature, and one that has attracted the attention of scholars, is the prominence of the tribe Erechtheis, especially on Trireme 3, on which as many as 60% of the citizen crew members came from the Erechtheid demes⁴⁸. It is hardly possible, however, to assume that these Erechtheids were drafted from the deme registers, because the case of Trireme 3 is isolated, and the discernible citizen crew members on Trireme 1 and Trireme 2 were from demes of eight or nine different tribes. Thus, it would be reasonable to suppose that the Erechtheids on Trireme 3 were volunteers recruited by the Erechtheid trierarch Protomachos through a tribal network. That nine of the ten *epibatai* on this ship were Erechtheids points to the same conclusion, because the *epibatai* were typically volunteers, as we have seen⁴⁹.

That argument could be supported by a newly published inscription dated to the late fifth or early fourth century⁵⁰. It is supposedly part of a larger roster of the crews of more than one Athenian trireme, which is both formally and chronologically a close parallel of the Catalogue, but is not likely a part of it⁵¹. The heading ‘*Erechtheidos*’ is followed by a trierarch, perhaps ten *epibatai* and three officers (*kybernētēs*, *keleustēs* or *prōiratēs*, pentekontarch). The tribal heading, that trierarch and all of the *epibatai* being from the Erechtheid demes led Bardani (2004.153–154) to suggest that the crews of the trireme of this roster were organized on the tribal basis. Although that could be possible, we still wonder if these Erechtheid *epibatai* were recruited by a tribal network of the trierarch in the same way as their counterparts on Trireme 3 of the Catalogue, especially because *kybernētēs* and *keleustēs/prōiratēs* are not citizens but foreigners (Abderian and Phaselite). As for the tribal heading, it could be the name of the ship, as Bardani (2004.153 n.29) himself noted⁵².

To return to the Catalogues, variations of the composition of the crews on individual triremes also indicate recruitment of volunteers by the trierarchs. There seems to have been a higher proportion of free crew members and a lower proportion of slaves on Trireme 2 than on the other triremes; all the discernible *xenoi* on Trireme 1 were citizens from allied states, whereas those on Trireme 4 were mostly

⁴⁵ Kolbe 1901.34, 38; Busolt 1926.574 et n.1; Dover (*HCT IV*) 293–294.

⁴⁶ Boeckh 1857.708–709.

⁴⁷ Pritchett (1974.87 n.151) seemed to take the *naus kenas* as ‘ships comprising mercenary crews’ but did not provide evidence to support his argument. The *naus kenas* could have been empty ships to be manned later with mercenary crews.

⁴⁸ Pope 1953.1048; Laing 1966.98; Graham 1998.107–108.

⁴⁹ Gomme (1933.49 n.2) and Armstrong (1949.45–46) found it doubtful that the crews of the Catalogue were enrolled by tribes. Bakewell (2008.152) assumed that only *epibatai* and citizen rowers in Trireme 3 were conscripts, which I doubt.

⁵⁰ Bardani 2004.

⁵¹ Bardani 2004.151.

⁵² Jordan (1975.164–166) inferred the presence of ten sacred ships bearing the names of the ten Kleisthenic tribes in the fifth and fourth centuries.

metics. It is likely that this variety resulted from recruitment by each pair of trierarchs through either social or personal networks, rather than from uniform and systematic mobilization by the state.

Nature of the Catalogue

The important question still remains: for what purpose and in what historical context was this inscription created, especially if the complements of the crews in the Catalogue were normal ones of the Athenian fleet in the late fifth century. Since this is a large issue, it must be handled rather summarily here.

First of all, it should be noted that the Catalogue is not necessarily a *sui generis* monument⁵³. Other than the newly published inscription mentioned above (Bardani 2004), we have at least two other fragmentary inscriptions assumed to belong to similar crew rosters that are not part of the Catalogue⁵⁴. That would back up our argument that the Catalogue was not a unique document derived from a certain specific historical context.

As for the nature of the Catalogue, we must draw attention to Bakewell's studies (2007, 2008) for the military record keeping in fifth-century Athens. After the Persian Wars, detailed military records began to be kept because of changes in the nature of warfare, the establishment and growth of the empire and democratic development in Athens. Individual commanders — generals as well as trierarchs — found it necessary and useful to create and maintain records of those serving under them, not only for self-defence against antagonistic *dēmos*, but also for effectively maintaining the personnel. The commanders tended to keep records in non-standard, idiosyncratic ways. The variations that we mentioned above in the crew listings of the surviving four triremes in the Catalogue indicate that it was not derived from standardized administrative documents but from records about the personnel kept by individual trierachs.

Bakewell (2008.154) suggested that the primary purpose of the Catalogue was not administrative but honorific on the grounds that the Catalogue was supposed to have been erected in Akropolis, not in Agora or Peiraieus, and that it may not have been designed for easy consulting. We prefer to regard it basically as a dedicatory monument that was originally kept on impermanent media and later edited and inscribed on stone, most likely as the Erechtheion accounts that share very marked features with the Catalogue. Once dedicated as such, the military records compiled by the trierarchs became sacred, by which a kind of accountability of the trierarchs would also have been ensured. Whether or not the monument was actually consulted would not have really mattered.

Conclusion

This paper investigated five aspects of the Catalogue, *IG I³ 1032*: (1) its link to the battle of Arginusai/Aigospotamoi, (2) slave crews, (3) *epibatai*, (4) the mode of manning the ships and (5) the nature of the document. As far as these aspects are concerned, nothing seems to indicate that this inscription reflects an extraordinary situation. Thus, the roster on the inscription, which would originally have been compiled by individual trierarchs then inscribed onto the stone and dedicated on the Akropolis, reflects the typical complement of crews of the Athenian triremes, at least in the late fifth century.

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⁵³ Bakewell (2008.157) erroneously stated that ‘to date not a single fragment from another monument listing crews has come to light’.

⁵⁴ EM12894, found on the north slope of Akropolis in 1937, is different from the Catalogue both in the geological character and in some lettering. Laing 1966.94 n.1; Graham 1998.90. Stroud (1972.428) dated it to the early fourth century. Agora I 4784, found in the foundation of a late Roman house southeast of the Tholos in 1937, is similar to the Catalogue in the geological character, but the colour of the marble is blueish. Meritt 1960.54–55; Lewis' note in *IG I³*.

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