**Catalogue of ancient potential ports and harbours in the Black sea**

**Catalogue des abris et ports antiques potentiels en Mer Noire**

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**Résumé -** Un ‘havre’ est un endroit où les bateaux peuvent trouver un abri. Dans le concept d’abri il faut inclure les mouillages, les plages sur lesquelles les bateaux peuvent être halés, et les ports avec des infrastructures. Même si les marins de l’antiquité pouvaient parcourir 50 à 100 miles nautiques par jour, il était important de connaitre les abris sûrs dans un rayon de deux à trois heures de navigation ; c’est-à-dire environ 10 miles nautiques. Un total d’au moins 300 abris était donc nécessaire pour une navigation sûre autour de la mer Noire et de la mer d’Azov. Cet article présente une liste et une carte de 388 abris et ports antiques dans la région de la mer Noire et de la mer d’Azov, et conclut que des ports antiques sont sans doute encore à découvrir en Ukraine et en Russie méridionale.

**Abstract** - A ‘harbour’ is a place where ships can seek shelter. The concept of ‘shelter’ has to include anchorages, landing places on beaches, and ports with infrastructures. Even though ancient seafarers could sail 50 to 100 nautical miles in a day, it was important to know where they could find safe shelter within two to three hours of navigation, i.e. only approx. 10 miles. For safe sailing, a total of at least 300 shelters was hence required around the Black Sea and Azov Sea. This paper presents a list and map of 388 known ancient ports and harbours in the Black Sea and Azov Sea, and concludes that ancient ports are probably still to be found in Ukraine and southern Russia.

Mot-clés: havre antique, abri antique, port antique, mer Noire, mer d’Azov

Keywords: ancient harbour, ancient shelter, ancient port, Black Sea, Azov Sea

**METHODOLOGY**

A ‘harbour’ is a place where ships can seek shelter. The concept of ‘shelter’ has to include anchorages, landing places on beaches, and ports including structures such as access channels, breakwaters, jetties, landing stages, quays, warehouses for storing of commodities and equipment, shipsheds and slipways. Shelters of interest include all places which may have been used by seafarers sailing over long distances. *Villae maritimae* are also of interest, but shelters the likes of local fishermen, who may have landed their boats on the beach in front of their homes, are of less interest. In another limitation, only maritime harbours and some river ports that could be reached by deep-sea ships are considered.

This paper presents work done to collect, identify and locate ancient harbours and ports. It is based on a study of existing documentation, i.e. on the writings of 68 ancient authors and a few modern authors, incl. the Barrington Atlas.

The ancient authors are usually historians, philosophers or poets, but for this work the geographers retained most of our attention: Strabo, Pliny the Elder, Ptolemy, and Arrian and Marcian who tell about their journeys in the Black Sea. In addition to ports mentioned by ancient authors, some ports have been included as mentioned by modern authors: Lehmann-Hartleben (1923), Frost (1963), Blackman (1982), Blackman and Rankov (2014), Flemming and Webb (1986), Talbert (2000), Cohen (1995 and 2006), Tiverios (2008), Dawson (2013), Gordieiev (2015) and some up to date web sites (<http://pleiades.stoa.org/> and <http://dare.ht.lu.se/>).

In a first stage, only ports were listed that are explicitly mentioned by each ancient author (*portus, navale, statio*). Cities where the presence of a port was known from other sources were not attributed to an author who mentions the city but does not mention the port. This limitation was certainly questionable as one cannot imagine coastal settlements without at least a minimal shelter for boats. It was therefore decided to include all sites mentioned by the authors of a Periplus who were sailing ships and for whom one might consider that all places they mention are harbours. Furthermore, it was considered that all coastal settlements mentioned in the Barrington Atlas and in the Digital Atlas of the Roman Empire (DARE) must have had a shelter, and they were included too.

**RESULTS**

The result of this work is a list of over 4000 ancient ports and shelters that are scattered mainly around the Mediterranean Sea, but also in the North Sea, in the Atlantic Ocean, in the Red Sea and the Gulf and in the Indian Ocean.

Fig. 1 shows 388 known ancient ports and harbours in the Black Sea area. Out of this number, 165 places are mentioned as harbours by ancient authors. A detailed list of all of them is included hereafter in a clockwise rotation starting and ending at the Northern access to the Bosphorus, with their latitude and longitude coordinates.

**ANALYSIS**

Ancient seafarers often used beaches to land their ships on. It may be noted that a 37 m military trireme with 170 ‘strong’ oarsmen could be hauled on the beach if the slope was mild enough, say no more than 1:7 (about 15%) which was also a maximum for slipways (Blackman and Rankov, 2014). This requires sand of a certain grain size (Komar, 1998): the very fine sands (or silts) found in large deltas yield a very flat slope which keeps ships far from land. Conversely, a shingle beach has a steep slope that is dangerous for landing ships on.

During military expeditions, 200 people had to be fed on board triremes. It was impossible for masters to fill their ships with tons of food. In the absence of ports, ship pilots had to find places with a degree of shelter where drinking water could be found, and river estuaries could provide both. The Stadiasmus is an example of a collection of such knowledge, and can be considered as the ancestor of medieval portolans and modern nautical instructions.

Commercial ships obviously preferred sheltered creeks with clear landmarks on shore (such as a typical mountain). Many shelters were needed, as seafarers often followed the coast, using safe shelters to stop overnight and escape bad weather. Even though they could sail 50 to 100 nautical miles in a day, it was important to know where they could find safe shelter within two to three hours of navigation; i.e. only approx. 10 miles. With the length of the Black Sea and Azov Sea coast being approx. 5800 km (acc. to Black Sea NGO Network, [bsnn.org/black\_sea.html](file:///D%3A%5CArthur%5CArch%C3%A9ologie%5CArcheo%5CEtudes%5CBlackSeaPorts%5Cbsnn.org%5Cblack_sea.html)) i.e. a little over 3 000 nautical miles, as an order of magnitude, they would hence have required a total of at least 300 shelters around the Black Sea and Azov Sea, which is fairly close to the 388 places found so far.

Many of these sheltered creeks still exist today, but large changes have occurred in some places:

* crustal movements which explain why some ancient ports are buried under modern ports;
* relative sea level rise of 0.30 to 0.50 m over the past 2000 years (see Flemming and webb, 1986 ; Morhange, 2014);
* seismic events inducing tsunamis which devastated adjacent coastal areas;
* river estuaries usually tend to silt up, as rivers carry most of the materials that create beaches, and this explains why some ancient ports are now so far from the sea (e.g. Danube and Don deltas) or have simply filled up with sand (Anthony *et al*., 2014);
* in some large cities the ‘old port’ has been reclaimed to create a new waterfront area (e.g. Varna, Mangalia, Constanza);
* beaches are subject to sedimentation and erosion by wave action, and the latter explains why some ancient ports were lost to the sea.

It should be noted also that ports mentioned here have been collected from texts of various dates ranging from 500 BC (except for Homer) and 500 AD (with a few exceptions), that is 1000 years. The various authors have not seen the same things ... and some authors have just repeated what others wrote before them!

Even though the total number of shelters is fairly close to a safe number of one every 10 nautical miles, it can be seen from Fig. 1 that many ancient harbours probably still remain to be found on the northern coasts of the Black Sea and in the Azov Sea, in Ukraine and in Russia.
Some candidates might be suggested as they seem to provide some shelter from a nautical point of view, to provide fresh water, and to be at a reasonable distance from each other and other known ancient ports:

* along the canal crossing the Crimean Peninsula between Perekop and Heniches’k,
* on several coastal lakes on the Crimean western coast,
* from Crimea to Marioupol: Gulfs of Fedotova, Obytichna, Berdiansk, Belosarayska, although it is acknowledged that this sandy coast with large sediment transport (littoral drift) does not provide easy access for shipping,
* from Novorossiysk to Sokhumi: Krinitsa, Dzhubga, Lermontovo, Olginka, Golovinka, Gudauta (R. Hypsta),
* On the main rivers: Dniepr, Don.

Some of these candidates might require more attention from historians and archaeologists to find out if they were indeed ancient settlements. The Catalogue of Ancient Ports & Harbours tries to be exhaustive, but is most probably not. This list must be seen as an uncompleted collection and the geolocation is sometimes a bit speculative. This work needs to be corrected and completed.

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Arthur de Graauw is a coastal engineer with extensive experience in the Mediterranean area. He has compiled a list of ancient ports and harbours with latitude/longitude positioning, based on 68 ancient authors and some modern authors. This catalogue of ancient ports contains over 4000 places. It can be viewed on: [www.AncientPortsAntiques.com](http://www.AncientPortsAntiques.com).

**Figure 1 – Ancient ports and harbours in the Black Sea area**



| **Ancient name** | **Modern name** | **Country** | **Latitude (°)** | **Longitude (°)** |
| --- | --- | --- | --- | --- |
| Panium, Symplegades insulae, Kyaneai insulae, Pompey's Pillar | Rumeli Feneri | Turkey | 41.23498 | 29.11443 |
| Philia, Phrygia, port of Delcus, Derkos, Derkoi  | Durusu near Karaburun | Turkey | 41.348057 | 28.692336 |
| Scylla  | Podima, near Yaliköy | Turkey | 41.4871 | 28.3012 |
| Salmydessus, Salmydesse, Medea, Midya  | Kiyiköy | Turkey | 41.635 | 28.0948 |
| Thynias, Buaticum  | Mert Gölü, near Igneada | Turkey | 41.8658 | 27.982 |
| Ableon Tihos, Aulaeum, Aulaetichus, Avleuteichos, Agathopolis  | Ahtopol | Bulgaria | 42.099143 | 27.951729 |
|  | outlet of R Karaagasch  | Bulgaria | 42.224906 | 27.777205 |
| Perinthos, Peronticum | Kiten, at cape Urdoviza | Bulgaria | 42.232857 | 27.780019 |
| Primorsko  | outlet of R Djavolska | Bulgaria | 42.262705 | 27.755799 |
| Tera, Ranuli, Asine | Roman naval base, unlocated near cape Maslen Nos, in the bay of Paraskeva? | Bulgaria | 42.321527 | 27.792529 |
| Chersonnesus, Chersonese, Gersonosus, Tonzos  | Roman fort at outlet of R Ropotamo | Bulgaria | 42.328197 | 27.754538 |
| Antea, Apollonia Pontica, Apollonia Magna | Sozopol, with ancient lighthouse on isle of St Yvan | Bulgaria | 42.424361 | 27.692383 |
| Antheia | Atiya | Bulgaria | 42.448579 | 27.573028 |
|  | bay of Cenguene Skelja | Bulgaria | 42.449138 | 27.533746 |
|  | Tvardica on the South bank of Lake Mandra | Bulgaria | 42.414687 | 27.449732 |
|  | industrial area Kostadin Tchechma | Bulgaria | 42.3865 | 27.2937 |
| Deultum, Develton | Debelt on on the SW bank of Lake Mandra | Bulgaria | 42.3882 | 27.2807 |
| Pirgos | Greek fort between the villages of Konstantinovo and Chernivrah | Bulgaria | 42.42775 | 27.367 |
|  | Shiloto | Bulgaria | 42.45694 | 27.3804 |
|  | Burgas, Pobeda, Sladkite Kladentsi | Bulgaria | 42.48245 | 27.4396 |
|  | Izgrev | Bulgaria | 42.5111 | 27.4784 |
|  | between the airport and Lake Atanasovo | Bulgaria | 42.556161 | 27.493903 |
|  | Gerena | Bulgaria | 42.5666 | 27.5812 |
| Anchialos  | Pomorie | Bulgaria | 42.553 | 27.638 |
| Mesembria, Mesembrie, Meneabria  | Nessebar | Bulgaria | 42.658426 | 27.727654 |
| Haemus Prom., Gema, Aristaeum  | Cape Emona | Bulgaria | 42.689078 | 27.904284 |
| Naulohus, Naulochos, Tetranaulohas, Heliopolis | Obzor | Bulgaria | 42.8273 | 27.8858 |
| Aspros, Templum Iovis | Cape Sveti Atanas | Bulgaria | 42.855 | 27.901 |
|  | Shkorpilovtsi, at the outlet of R Kamchia  | Bulgaria | 42.9644 | 27.9045 |
| Erite, Ereta  | near Bliznatsi | Bulgaria | 43.037 | 27.893 |
| port of Karabizia? | near cape Galata | Bulgaria | 43.170592 | 27.942562 |
|  | Karantinata, Lazuren Bryag | Bulgaria | 43.174293 | 27.919003 |
| Odessus, Tiberiopolis, Odissospolis, Ullyssopolis | Varna, ancient port unlocated near modern railway station, Roman naval base | Bulgaria | 43.19825 | 27.91362 |
| Catrizi, Castrici | Kastritsi | Bulgaria | 43.21976 | 28.0029 |
| Gerania, Kraneia | Kranevo | Bulgaria | 43.354056 | 28.084006 |
| Krounoi, Crunos, Dionysopolis, Matiopolis | Balchik, Balcik | Bulgaria | 43.403915 | 28.164406 |
| Byzone, Bizona, Byzus | near Kavarna | Bulgaria | 43.407 | 28.354 |
| Tirizis, Tetriciada, Tetrisiade | Cape Kaliakra | Bulgaria | 43.364 | 28.4658 |
| Rousalka  | Rousalka  | Bulgaria | 43.413042 | 28.517872 |
| Yaila  | Yaila  | Bulgaria | 43.438001 | 28.550458 |
| Karon Limen, Port Carus, Port of the Carians, Karia | cape Shabla | Bulgaria | 43.538305 | 28.610005 |
| Callatis, Kallatis, Pangalia  | Mangalia | Romania | 43.811929 | 28.583472 |
|  | Limanu | Romania | 43.803562 | 28.535589 |
|  | Albesti | Romania | 43.796961 | 28.410275 |
| Tomis, Tomes, Tomis Costantiana | Constantza | Romania | 44.172187 | 28.662766 |
| Vicus Turris Mucaporis | Anadolchioi | Romania | 44.19333 | 28.63506 |
| Vicus Scaptia | Palazu Mare | Romania | 44.22691 | 28.59833 |
|  | Ovidiu | Romania | 44.2565 | 28.5717 |
|  | Cape Midia | Romania | 44.344 | 28.7 |
|  | Capidava | Romania | 44.493695 | 28.09031 |
| Carsium | Harsova | Romania | 44.681627 | 27.952134 |
|  | Piua Pietrei | Romania | 44.72711 | 27.8365 |
| Beroe | Piatra Frecatei | Romania | 44.895372 | 28.139512 |
|  | Peceneaga | Romania |  |  |
|  | Piatra Rosie | Romania | 45.11789 | 28.19972 |
| Vicus Celeris | Vadu | Romania | 44.44896 | 28.73504 |
| Gistria, Histria, Istros, Ister  | Istria | Romania | 44.548725 | 28.775075 |
| Insula Lupilor | Sinoe | Romania | 44.62329 | 28.802835 |
| Vicus Buteridavensis | Sariurt | Romania | 44.6888 | 28.70366 |
| Argamu, Orgame  | Sase Martie, Cape Dolosman between Lake Golovita and Lake Razim | Romania | 44.756104 | 28.941423 |
|  | Enisala | Romania | 44.88375 | 28.8351 |
| Enisala | Babadag | Romania | 44.9112 | 28.7444 |
|  | Satu Nou | Romania | 44.948107 | 28.687121 |
|  | Sarichoi | Romania | 44.947851 | 28.861707 |
| Aegyssos | Tulcea | Romania | 45.186426 | 28.8148 |
| Noviodunum, home port of Classis Moesica fleet | Isaccea | Romania | 45.270489 | 28.491626 |
|  | Rachelu | Romania | 45.28665 | 28.32573 |
| Dinogetia | Gorvan | Romania | 45.378884 | 28.138792 |
| Barbosi | Galati | Romania | 45.384993 | 28.025101 |
| Arrubium | Macin | Romania | 45.239231 | 28.127894 |
| Troesmis | near Turcoaia | Romania | 45.145451 | 28.186283 |
| Halmyris, Salmorus | near Murighiol | Romania | 45.024757 | 29.198041 |
| Ad Stoma | Sfînu, Sfintul Gheorghe | Romania | 44.99447 | 29.16058 |
| Gratiana? | near Murighiol | Romania | 45.03664 | 29.16174 |
| Salsovia | 2.5 km NW of Mahmudia | Romania | 45.101 | 29.0675 |
|  | Fortificatia Getica, at Cetajuie, 1.5 km W of Salsovia | Romania | 45.1026 | 29.048 |
| Thalamonium | Nufaru | Romania | 45.15 | 28.91667 |
| R Ister, Danuvius, navigable on a great distance, with many river ports | R Danube, Donau | Romania | 45.108927 | 29.905618 |
| Nakaron, Solin | Sulina | Romania | 45.1566 | 29.6526 |
| Ahillea, Hillia, Kealia | Kiliya | Ukraine | 45.433 | 29.257 |
|  | Ismail | Ukraine | 45.326236 | 28.831523 |
| Aliobrix | Orlivka | Ukraine | 45.31965 | 28.411852 |
| Achille's island, Leuke insula, White island, Macaron insula, Blessed island, Isle of Serpents  | Isle of Biel, Zmiinyi, in front of Sulina, in the delta of R Danube | Ukraine | 45.254677 | 30.203218 |
| Arpis Civitas, Harpis? | Denisoye near Desantne  | Ukraine | 45.570198 | 29.612769 |
| Antiphili Turris, Ta Antipilou  | near Trapivka, near Tartarbournary | Ukraine | 45.78751 | 29.682246 |
|  | Zheltyy Yar | Ukraine | 45.88703 | 29.94367 |
|  | Kremniskoy, near Lebedivka | Ukraine | 45.822041 | 30.156114 |
| Aepolium  | Shabalata | Ukraine | 45.843287 | 30.201405 |
|  | Belen’koye | Ukraine | 46.049 | 30.3736 |
| Neoptolemi Turris, Hermonactocome  | Zatoka? | Ukraine | 46.06002 | 30.467095 |
|  | Shabo  | Ukraine | 46.137906 | 30.390811 |
| Tyras, Ophiussa, Asprokastron, Albajulia, Levkopolihnion, on R Tiras | Bilhorod-Dnistrovskyï, Roman naval base, on R Dnister | Ukraine | 46.200632 | 30.348578 |
|  | Mologa | Ukraine | 46.21609 | 30.23122 |
|  | Pivdennoye | Ukraine | 46.27039 | 30.14335 |
|  | Semenovka | Ukraine | 46.27891 | 30.12083 |
|  | Kosovka | Ukraine | 46.34611 | 30.077 |
|  | Belyayevka | Ukraine | 46.47289 | 30.21464 |
|  | Nadlimanskoye | Ukraine | 46.37278 | 30.33335 |
|  | Ovidiopol | Ukraine | 46.24426 | 30.44546 |
| Niconia, Nikonion, Niconium | Roksolanskoye | Ukraine | 46.21572 | 30.45485 |
|  | Palanka, near Roxolani | Ukraine | 46.18376 | 30.436926 |
|  | Karolino-Bugaz  | Ukraine | 46.141443 | 30.501262 |
|  | Ilyichevsk, Illitchivsk, Tchornomorsk, with Greek lighthouse | Ukraine | 46.316 | 30.668 |
| Isiakon Limen, Isiacorum Portus, port of the Isiacians  | Odessa | Ukraine | 46.51 | 30.75 |
| Istrianon Limen, port of the Istrianians, Istrians  | Kuial'nyk, near Odessa | Ukraine | 46.573 | 30.74 |
|  | Zhevakhov | Ukraine | 46.543 | 30.735 |
| Scopuli  | near Nova Dofinovka | Ukraine | 46.566853 | 30.913587 |
|  | Kosharskoye | Ukraine | 46.666 | 31.155 |
|  | Koblevo | Ukraine | 46.661 | 31.208 |
| Ordesus, Odesus, Odessos | Mors'ke? | Ukraine | 46.61 | 31.278 |
| Borysthenes insula | isle of Berezan, was disconnected from mainland at cape Adzhyias'k, South of Vyktorovka, in 4th c. BC | Ukraine | 46.598556 | 31.412078 |
|  | Pokrovskoye, near cape Kinburns’ka | Ukraine | 46.53639 | 31.61164 |
| Olbia, Borysthenes, port of the Borysthenits, on R Hypanis, Danapris | Parutyne, on R Bug, Roman naval base | Ukraine | 46.688537 | 31.904405 |
|  | Radsad | Ukraine | 46.901 | 31.987 |
|  | Bublikova Balka | Ukraine | 46.627 | 32.02 |
|  | Pugach | Ukraine | 46.6128 | 32.0637 |
|  | Aleksandrovka | Ukraine | 46.6097 | 32.1035 |
| Hippolaou Akra, at the mouth of R Borysthenes | Stanislavskoye, at the mouth of R Dniepr | Ukraine | 46.556039 | 32.147822 |
|  | Rybal'chye | Ukraine | 46.4809 | 32.2345 |
|  | Yagorlytskoye | Ukraine | 46.4353 | 32.03 |
| Eones | Cape Tendrivs’ka | Ukraine | 46.375 | 31.528 |
| port of the Acheans, Achille's course  | Tendrivs’ka Kosa island | Ukraine | 46.204966 | 31.852853 |
| Hylaia, Pidea | Zaliznyi Port | Ukraine | 46.107588 | 32.282864 |
| Bonus Portus, North of Kephalonesos insula, in Tamyrakes kolpos | Dzharylhach island in Dzharylhach'ka gulf, with an outlet near Lazurne | Ukraine | 46.023 | 32.943 |
| Karkine?  | Kalanchak, on R Kalanchak | Ukraine | 46.2528 | 33.294 |
| Taphros, Tafros | Perekop, near Armians’k with canal crossing the Crimea isthmus | Ukraine | 46.16162 | 33.69272 |
|  | Masliny, Sjeverne  | Ukraine | 45.695017 | 33.042744 |
|  | Burnel | Ukraine | 45.6795 | 33.0037 |
|  | Groty | Ukraine | 45.6629 | 32.9649 |
|  | Mezhvodnoye | Ukraine | 45.58 | 32.84 |
|  | Dzharylgach | Ukraine | 45.5785 | 32.9314 |
|   | Panskoye, in Yarylhats’ka Bay | Ukraine | 45.552869 | 32.813667 |
| Kalos Limen, Calos  | Chornomors’ke, in Achmechet bay | Ukraine | 45.51763 | 32.714032 |
|  | Karmyshev bay, port of Abuzlar? | Ukraine | 45.4929 | 32.6202 |
|  | Kipchak bay, port of Kastel? | Ukraine | 45.4812 | 32.5914 |
|  | Great Castel bay, port of Dzhangul? | Ukraine | 45.457 | 32.5475 |
|  | Ocheretay bay, port of Chorotay? | Ukraine | 45.407 | 32.49 |
|  | Karadzhinskoye near Olenivka  | Ukraine | 45.383 | 32.523 |
|  | port of Oyrat and Dzhan-Baba? | Ukraine | 45.329 | 32.68 |
|  | Kulcuk, Kulchuk | Ukraine | 45.367043 | 32.863964 |
|  | Belyaus | Ukraine | 45.362281 | 32.905978 |
|  | Chaika, near Zaozerne | Ukraine | 45.164263 | 33.290377 |
| Kerkinitis | Yevpatoriia | Ukraine | 45.189 | 33.379 |
|  | Novofedorivka | Ukraine | 45.083 | 33.555 |
|  | Kara-Tobe, near Pryberezhne | Ukraine | 45.139468 | 33.519253 |
|  | Dandace, near Peschanoye | Ukraine | 44.853668 | 33.567574 |
|  | Kacha | Ukraine | 44.7757 | 33.535 |
|  | Bel'bekskoye | Ukraine | 44.6826 | 33.5454 |
| Ctenus, Calamita | Inkerman? Sebastopol | Ukraine | 44.610233 | 33.596857 |
| Eupatoria, Eupatorion  | Pivdenna bay? Sebastopol | Ukraine | 44.61291 | 33.531048 |
| Chersonesos, Chersonnese, Heraclea | Roman naval base, near Karantynna Bay, La Quarantaine | Ukraine | 44.610306 | 33.487901 |
| Three ports between Heraclea and cape Parthenium | Strilets'ka bay, Kruhla bay, Kamyshova bay | Ukraine | 44.61 | 33.441 |
| Palaia Chersonesos, near cape Parthenium | SE of the airport, 10 km NW of cape Fiolent | Ukraine | 44.5644 | 33.4096 |
| Portus Symbolorum, port of the Symbols, Symbolon, Bonus Portus | Balaklava | Ukraine | 44.5024 | 33.598 |
| Criumetopon Prom. | Laspynska bay, near Cape Sarych | Ukraine | 44.418 | 33.704 |
| Kharax, Charax  | Cape Ai-Todor | Ukraine | 44.4317 | 34.13 |
| Lagyra  | near Yalta | Ukraine | 44.4967 | 34.185 |
| Port of Phrourion  | Hurzuf? | Ukraine | 44.5464 | 34.3013 |
| Port of Lampas | Partenit? | Ukraine | 44.571 | 34.349 |
| Aluston, Aloustou Phrourion  | Alushta | Ukraine | 44.673649 | 34.424744 |
| Skythotauron Limen, port of the Tauroscyths, Athenaeum  | near Sudak | Ukraine | 44.83098 | 34.971394 |
| Port of inland settlements: Akra-Deresi, Tokluk, Koz, Kefessia | possibly at cape Bugas, near cape Mehanom | Ukraine | 44.811 | 35.111 |
| Aphineon? Callitra? | Koktebel | Ukraine | 44.955 | 35.262 |
| Theodosia, Theodosie, Caffa  | Theodosia | Ukraine | 45.026756 | 35.40311 |
| Cazeca, Kazeka  | Cape Chauda | Ukraine | 45.008242 | 35.832027 |
| Port Cimmerion, Cimmerium, Kimmerikon  | Cape Opuk | Ukraine | 45.027976 | 36.202315 |
| Kytai, Kitey  | South of Cape Takyl | Ukraine | 45.07935 | 36.4263 |
| Akra, Zephyrium | North of Cape Takyl | Ukraine | 45.132641 | 36.427795 |
|  | Geroyevka | Ukraine | 45.21565 | 36.40682 |
| Nymphaion, Nymphaeum  | about 13 km from Kerch, near Eltiguen memorial | Ukraine | 45.236682 | 36.417346 |
| Tyritake, Tiritaca | near Pryozerne industrial port | Ukraine | 45.27708 | 36.4072 |
| Hermissus | Cape Ak Burun | Ukraine | 45.317 | 36.486 |
| Pantikapaion, Panticapee  | Kerch | Ukraine | 45.351 | 36.4685 |
| Myrmekion  | Cape Karantynnyi, East of Kerch  | Ukraine | 45.3532 | 36.5214 |
| Parthenion | near Zukovka | Ukraine | 45.369 | 36.6156 |
| Porthmion, Porthmia | near Yurkine | Ukraine | 45.4265 | 36.5278 |
| Zenonos Chersonesos, Zenon Hersonissos | Kurtortnoe, near Cape Zyuk, Ziuk | Ukraine | 45.476783 | 36.337184 |
|  | General'skoye Vostochnoye | Ukraine | 45.472 | 36.2126 |
|  | Salachik | Ukraine | 45.47364 | 36.18908 |
|  | Zolotoye Vostochnoye | Ukraine | 45.4538 | 36.1022 |
|  | Zolotoye  | Ukraine | 45.43946 | 36.07205 |
| Heracleon | Cape Kazantyp, near Mysove | Ukraine | 45.459174 | 35.843472 |
|  | Mysovoye | Ukraine | 45.43888 | 35.82588 |
|  | Semenovka | Ukraine | 45.3812 | 35.7607 |
| Neontichos, Enichi, Henichi | Heniches’k | Ukraine | 46.155 | 34.82 |
|  | Kyrylivka, at root of cape Fedotova | Ukraine | 46.353 | 35.34 |
|  | Obytichna gulf | Ukraine | 46.61 | 36.18 |
|  | Berdians’ka gulf | Ukraine | 46.71 | 36.76 |
| Halieuma Theou, Palestra, Palastra | in Bilosarais'ka gulf | Ukraine | 46.91 | 37.27 |
| Hygreis  | Shyrokine, East of Marioupol | Ukraine | 47.086 | 37.821 |
| Karoia  | Mius’kyi Firth, near cape Beglyts’ka | Russia | 47.135 | 38.474 |
| Kremnoi, Kremny | Taganrog  | Russia | 47.2118 | 38.95 |
| Tanaïs, on R Tanais | near Nedvigovka on R Don | Russia | 47.268109 | 39.335434 |
|  | several places close to Sukho-Chaltyrskoye | Russia | 47.2443 | 39.49956 |
|  | Nizhne-Gnilovskoye | Russia | 47.187 | 39.627 |
|  | Temirnitskoye | Russia | 47.1948 | 39.6737 |
|  | Rostovskoye | Russia | 47.209 | 39.7 |
|  | Kizitirinskoye | Russia | 47.218 | 39.75 |
|  | Kobyakovo | Russia | 47.229 | 39.83 |
|  | Yelizavetovskoye Gorodishche | Russia | 47.159809 | 39.491058 |
|  | Kazachiy Yerik | Russia | 47.16083 | 39.44512 |
|  | Stanitsa Yelizavetovskaya | Russia | 47.12913 | 39.4705 |
| Patarva | Podazovskoye, inside the fortress of Azov | Russia | 47.1165 | 39.4212 |
| Paniardis  | Krepostnoe, near Azov | Russia | 47.1208 | 39.3898 |
|  | Vysochino | Russia |  |  |
|   | Pavlo-Ochakovo | Russia | 47.034 | 39.123 |
|  | Chambur-Kosa | Russia | 46.962 | 38.921 |
| Pataroue, near R Rhombites Megas, Rombit | near Glafirovka, on Yeysky liman with R Yeya | Russia | 46.743056 | 38.417705 |
| R Rhombites Mikro, Rombit | Beysugsky liman and R Beysug | Russia | 46.219 | 38.227 |
|  | Mertvyy Redant, SE of Primorsko-Akhtarsk | Russia | 46.0007 | 38.1975 |
| Azara  | near Sadki | Russia | 45.96 | 38.102 |
|  | Belikov, SE of Achuyevo | Russia | 45.51754 | 38.00175 |
|  | Krasnyy October, Red October, West of Slavyansk-na-Kubani | Russia | 45.194 | 37.666 |
| Labrita, Labrys | near Semibratneye Gorodishche, near Varenikovskaya | Russia | 45.1537 | 37.5629 |
|  | Strelka | Russia | 45.2089 | 37.286 |
|  | Golubitskoye Gorodishche | Russia | 45.334212 | 37.2783 |
|  | Starotitarovskaya | Russia | 45.21866 | 37.17477 |
| Tyrambe  | Stanitsa Peresyp | Russia | 45.337622 | 37.211466 |
|  | Duboviy Mys | Russia | 45.28 | 37.123 |
|  | Kuchugury  | Russia | 45.408398 | 36.970666 |
| Achillion | near Il'ich | Russia | 45.43942 | 36.769743 |
|  | Batareyka near Zaporozhskoye  | Russia | 45.39 | 36.788 |
|  | Kamennaya near Zaporozhskoye  | Russia | 45.357083 | 36.764766 |
| Patrasys  | near Zaporozhskoye | Russia | 45.313152 | 36.85376 |
|  | Tatarskiy | Russia | 45.327 | 36.93 |
| Kepoi, Cepi | near Sennoy | Russia | 45.294983 | 36.982623 |
| Phanagoria  | near Sennoy | Russia | 45.277 | 36.9659 |
| Hermonassa  | Ataman | Russia | 45.21952 | 36.71422 |
| Korokondame  | near Ataman | Russia | 45.213532 | 36.614144 |
|  | Bugaz | Russia | 45.1126 | 36.861 |
|  | Stanitsa Blagoveshchenskaya  | Russia | 45.039794 | 37.085413 |
|  | Khutor Blagoveshchenskiy  | Russia | 44.970273 | 37.239085 |
| Sindicos, Sindique, Gorgippia, Anapa | Anapa | Russia | 44.896 | 37.31 |
|  | Sukko, near cape Utrish | Russia | 44.7618 | 37.3811 |
|  | Malyy Utrish | Russia | 44.708 | 37.453 |
|  | Dyurso | Russia | 44.6758 | 37.56 |
|  | Yuzhnaya Ozereyka | Russia | 44.666 | 37.639 |
|  | Myskhako | Russia | 44.654 | 37.765 |
| Bata, Bathai, Patous, Port Hieron  | Novorossiysk, on R Tsemes | Russia | 44.723333 | 37.793801 |
|  | Kabardinka | Russia | 44.646 | 37.928 |
| Torikos, Pragrae, Pagres, Heptalou, Eptala | Gelendzhik | Russia | 44.571643 | 38.034439 |
| Palaia Achaia, Vetus Achaia, Ancienne Achaia  | Arkhipo-Osipovka? on R Vulan | Russia | 44.349313 | 38.529342 |
| Vetus Lazica, Ancienne Lazique  | Novomikhaylovskoye? on R Nechepsuho | Russia | 44.233168 | 38.830548 |
| Nicopsis, shelter East of a promontory not named by Arrian?  | Tuapse, East of cape Kadosh | Russia | 44.085518 | 39.057199 |
| Zigoi, Zigi | Lazarevskoye | Russia | 43.895 | 39.333 |
|  | Mamai Kala, on R Mamayka | Russia | 43.623 | 39.693 |
| outlet of R Achaeunte, Achaious | R Shakhe, Sotchi | Russia | 43.573 | 39.707 |
| Masaitike, at outlet of R Masaetica, Masaetique  | Matsesta, on R Matsesta | Russia | 43.541 | 39.788 |
| Herakleion Prom. near outlet of R Naessus, Nesis | Pobeda, near R Khosta | Russia | 43.412 | 39.9206 |
| outlet of R Borgys  | R Mzynta at Adler, near Sotchi airport | Russia | 43.411 | 39.921 |
| outlet of R Abascus  | Gantiadi Monastery at Tsandripsh, between R Khashupse (East) & R Psou (West) | Abkhazia | 43.3793 | 40.0709 |
| Stennitike, Nitica, Nitike, Triglite | Roman fort near Gagra | Abkhazia | 43.325 | 40.2225 |
| Pityus, Pitynte, Amzara, near R Korax | Roman fort at Pitsunda with port on Lake Inkit, near R Bzyb | Abkhazia | 43.1736 | 40.3185 |
|  | Lidzava | Abkhazia | 43.166 | 40.369 |
| Anacopia, Tracheia, near R Apsara | Roman fort at Novyj Afon, New Athos, near R Psyrta | Abkhazia | 43.0945 | 40.8083 |
|  | Gvandra  | Abkhazia | 43.074 | 40.86 |
| R Anthemus | Krasnyy Mayak, near R Gumista | Abkhazia | 42.99 | 40.96 |
| Dioscurias, Sauastopoli, Sebastopolis  | Sukhumi | Abkhazia | 42.996 | 41.018 |
| Port Marfitam, Port Mengrels, Klisura, on R Chrysorrhoas | ? on R Kelasuri, Kyalasur | Abkhazia | 42.97 | 41.063 |
| R Astelephus, Stelippon, Euripos  | R Kodori, possible ancient northern branch of a delta | Abkhazia | 42.815 | 41.1257 |
| R Hippus  | R Kodori, possible ancient southern branch of a delta | Abkhazia | 42.812154 | 41.121505 |
| Guenos, Gyenos, Cygnus, Neapolis on R Cyaneus, Glaucus, Ciani, Tarsuras  | Ochamchira, on R Galidzga | Abkhazia | 42.7035 | 41.46 |
|  | Roman fort at Ilori, South of Ochamchira, on R Galidzga | Abkhazia | 42.6956 | 41.4986 |
| Siganeon, Zigane on R Singames (navigable) | Roman fort near R Gudava | Abkhazia | 42.6286 | 41.5013 |
| R Chobus, Chorsos | Pichori near R Enguri, near Anaklia | Abkhazia | 42.3894 | 41.548 |
| R Charieis, Arios (navigable) | northern arm of R Rioni | Georgia | 42.2088 | 41.624 |
| Patara Poti, on R Phasis (navigable) | Roman fort at Patara Poti, on R Rioni | Georgia | 42.1848 | 41.709 |
| Simagre, on R Phasis (navigable) | on R Rioni | Georgia | 42.197 | 41.7645 |
| Phasis, between R Phase & lake Paleostomi, Paliastomi | Poti, on southern arm of R Rioni, with Roman naval base (on lake Paliastomi?) | Georgia | 42.1413 | 41.6745 |
| R Mogrus (navigable) | R Supsa | Georgia | 42.01135 | 41.74261 |
| R Isis (navigable) | R Natenebi | Georgia | 41.9122 | 41.7616 |
| R Acinasis, Akinases | Pichvnari, near Kobuleti on R Kintrish | Georgia | 41.816 | 41.769 |
| Petra Pia Iustiniana  | Roman fort at Tsikisdziri | Georgia | 41.759 | 41.741 |
| Bathys Limen on R Bathys, Portus Altus  | Roman fort at Batumistsikhe, on R Korolis Tskali | Georgia | 41.656123 | 41.650231 |
| R Acampsis (navigable) | R Chorokh | Georgia | 41.60455 | 41.565274 |
| Apsaros, Apsaruntos, Apsyrtus | Roman fort & naval base at Fort of Gonio, 10 km South of Batumi | Georgia | 41.57311 | 41.573741 |
| Kissa, on R Kissa | Hopa | Turkey | 41.392 | 41.409 |
| Arhabia, on R Archabis | Arhavi, on R Kabisre Deresi | Turkey | 41.3536 | 41.2967 |
| R Prytanis  | R Firtina near Ardesen | Turkey | 41.1916 | 40.9607 |
| Atina, Athenae, near R Zagatis | Pazar, near Hemsin Deresi | Turkey | 41.1817 | 40.8805 |
| R Adienus  | R Madenli near Cayeli | Turkey | 41.089391 | 40.709049 |
| R Ascurus  | R Askoroz | Turkey | 41.048905 | 40.569334 |
| Rhizos, Rhizaion, Becheirikos, Port Bechirique, on R Rhizius  | Rize, on R Tasli | Turkey | 41.036149 | 40.534456 |
| R Calos  | North of Eskipazar | Turkey | 40.990875 | 40.323847 |
| R Psychros  | South of Eskipazar | Turkey | 40.972625 | 40.305805 |
| Ophius, on R Ophis  | Of, on R Solakli | Turkey | 40.948389 | 40.259139 |
| Susarmia, Sousourmena, Hyssus Portus on R Kora, Missy Portus, Augustopolis | Sürmene, on R Manahoz Deresi | Turkey | 40.918188 | 40.112901 |
| Erakleia, Psoron Limen, near Kaine Parenbole  | Arakli, on R Karadere, near Canayer | Turkey | 40.94234 | 40.068253 |
| Trapezos, Trapezonte, Trapezunt, initial home port of Classis Pontica fleet  | Trabzon | Turkey | 41.004909 | 39.739089 |
| Ermonassa, Platana, Pulathane | Akcaabat | Turkey | 41.021783 | 39.596558 |
| Chordule, Cordila, Kordyle  | Akcakale | Turkey | 41.079233 | 39.509828 |
| Hieron Oros  | Yoroz Burun | Turkey | 41.104543 | 39.435566 |
| Kerasous  | Kirazlik | Turkey | 41.0637 | 39.318 |
| Libiopolis, Linopoli | Vakfikebir, on R Fol Deresi | Turkey | 41.0518 | 39.2776 |
| Coralles, Koralla  | Eynesil | Turkey | 41.068 | 39.141 |
| Philokalea | Görele | Turkey | 41.044571 | 38.992223 |
| Argyria, at outlet of R Tripolis | Quarry at Halkavala, at outlet of R Harsit | Turkey | 41.008 | 38.85 |
| Tripolis  | Tirebolu | Turkey | 41.008085 | 38.821436 |
| Port Zephyriose, Zephyrium  | Espiye | Turkey | 40.9526 | 38.7056 |
|  | Kesap, on R Vanazit | Turkey | 40.919 | 38.5157 |
| Aretias insula, Aretide, Areonesos, Arrhentias, Halkeritida, Ares, in front of R Pharnacea | Isle of Giresun Adasi, in front of R Aksu | Turkey | 40.92895 | 38.43706 |
| Pharnacya, Pharnakeia, Pharnacee, Kerasus, Cerasus, Kerasonte, Choerades | Giresun | Turkey | 40.926512 | 38.390134 |
| Ischopolis, at the outlet of R Pharmatenos | Bulancak, at outlet of R Pazarsuyu | Turkey | 40.947353 | 38.174747 |
| R Melanthius  | R Melet near Ordu | Turkey | 40.990334 | 37.932806 |
| Kotyora, Cotyorum, Kitoros, near the outlet of R Genetes, Genetes, near Cape Genetaios | Ordu, near the outlet of R Akcaova | Turkey | 40.991364 | 37.884258 |
| Boona  | Persembe in the bay of Vona | Turkey | 41.0603 | 37.784 |
| Kilikon Nesos insula, Isle of the Cilicians  | Isle of Persembe Adasi | Turkey | 41.117387 | 37.728723 |
| Stamene, Ameneia?  | near Yason Burnu, Jason's Cape | Turkey | 41.116 | 37.705 |
| Polemonium | Bolaman | Turkey | 41.0348 | 37.5838 |
| Phabda, Phadisana, Side | Fatsa | Turkey | 41.038 | 37.499 |
| Ameletos, Camila  | near Yüceler | Turkey | 41.10855 | 37.387574 |
| R Phigamunte  | near Cevizdere | Turkey | 41.120359 | 37.332904 |
| Oenoe, Caena  | Ünye | Turkey | 41.1327 | 37.289 |
| R Thoaris  | R Akcay | Turkey | 41.1506 | 37.17 |
| R Beris  | R Arimdere, near Milic | Turkey | 41.189159 | 37.037293 |
| Cape of Amazones, Themiscyra, at the outlet of R Thermodon  | Terme, on R Terme Süyu | Turkey | 41.216698 | 36.976401 |
| Lamyron, Herakleion, Heracleum  | Sivaslilar Köyü | Turkey | 41.2456 | 37.0258 |
| Ankon, Acona on R Iris  | at the outlet of R Yesil | Turkey | 41.383 | 36.66 |
| Chadisia on R Chadisia  | near Kurtulus at the airport of Samsun | Turkey | 41.2924 | 36.5626 |
| Amisos, Amisus, Peiraieus, archaïc Enete | Baruthane, near Samsun | Turkey | 41.3149 | 36.339631 |
| Eupatoria  | Karasamson | Turkey | 41.3249 | 36.3176 |
| Eusene  | Ballica, near Derenköy | Turkey | 41.487 | 36.124 |
| Conopaeum, Conope, Conopeius Lacus | Cernek Gol, Gernek Gölü | Turkey | 41.643 | 36.07 |
| Naustathmus  | Liman Gol, Gölü | Turkey | 41.697 | 36.018 |
| R Halys  | R Kizilirmak at cape Bafra | Turkey | 41.74762 | 35.959063 |
| Gadilon, Helega? on R Halys  | Bafra | Turkey | 41.56985 | 35.882748 |
| Zaliches, Leontopolis on R Zaleco  | Alacam | Turkey | 41.636 | 35.603 |
|  | Yakakent Liman | Turkey | 41.638876 | 35.501672 |
| Zagora  | Cayagzi | Turkey | 41.686531 | 35.415002 |
| Garzoubanthon, Orgibate  | Kurzuvet | Turkey | 41.752598 | 35.238398 |
| Karousa, Carusa, Caruse, Polichnion  | Gerze | Turkey | 41.792039 | 35.201452 |
| Kyptasia | near Demirciköy | Turkey | 41.928869 | 35.090278 |
| Sinopa, Sinope | Sinop | Turkey | 42.020602 | 35.14885 |
| Scopelus  | peninsula of Sinope | Turkey | 42.025972 | 35.178924 |
| R Ochosbanes, Ochthomanes  | R Karasu Cayi | Turkey | 42.031935 | 35.074574 |
| Armene, Harmene, port of Sinop | Akliman | Turkey | 42.050028 | 35.05828 |
| Harmene? | Hamsilos | Turkey | 42.060269 | 35.04221 |
| Gerna, Leptes? | Inceburun | Turkey | 42.098035 | 34.955292 |
| Potamoi, Potamos  | Camurka, near Ayancik | Turkey | 41.94845 | 34.56 |
| Stephane  | Caylioglu, near cape Usta | Turkey | 41.965 | 34.5012 |
| Koloussa  | Güllüsu Liman, West of Türkeli | Turkey | 41.945262 | 34.279437 |
| Kinolis and Antikinolis | Ginoglu Liman, near Kaslica | Turkey | 41.967 | 34.166 |
| Aeginetes  | Yaka Ören, outlet of R Ilisi, near Abana | Turkey | 41.981 | 33.9726 |
| Abonuteichos, Abonutichus, Abonus, Ionopolis  | Inebolu | Turkey | 41.981333 | 33.758788 |
| Garium, Gario | Özlüce? | Turkey | 41.99 | 33.601 |
| Zephyrium  | Doganyurt | Turkey | 42.009959 | 33.466118 |
| Marsylla, Kallistratia? | Marcula Plaji | Turkey | 42.0126 | 33.398 |
| Karambis Prom. | Ilyasbey on Cape Kerempe | Turkey | 42.021193 | 33.362693 |
| Timolaion, Timolaium | Güble, near Cayyaka | Turkey | 42.0095 | 33.3075 |
| Thyne, Thymena, Timena, Teuthrania?  | Timne, near Ugurlu | Turkey | 41.96 | 33.171 |
| Klimax, Climace  | Sakalli | Turkey | 41.9414 | 33.0856 |
| Aegialus  | Cide | Turkey | 41.901342 | 32.984664 |
| Kytoros, Cytorus, Cytore  | Gideros, near Kumluca | Turkey | 41.859419 | 32.858033 |
| Kromna, Cromna  | Kurucasile | Turkey | 41.830868 | 32.66982 |
| Tripoli | Tekkeönü | Turkey | 41.846 | 32.7233 |
| Erythrinoi, Erythines, Erifin | Cakraz, near Senyurt | Turkey | 41.784254 | 32.481548 |
| Amastris, Sesamos, Sesamus  | Amasra | Turkey | 41.754893 | 32.386015 |
| R Parthenius  | Poseidon temple at outlet of R Bartin | Turkey | 41.686554 | 32.215629 |
| Mokata? on R Psillide  | Muda, formerly Mukata | Turkey | 41.611 | 32.15 |
| R Billaeus, Billaios | R Filyos near Sazköy | Turkey | 41.583552 | 32.045434 |
| port of Tieion, Tieum, Tius, Billaios | Filyos, Hisarönü, with a submerged breakwater connected to the promontory | Turkey | 41.571794 | 32.0247 |
| Psylla  | Isikveren | Turkey | 41.5258 | 31.9 |
| Krenides  | near Kilimli | Turkey | 41.488533 | 31.827473 |
| Sandaraca, Sandarake | Zonguldak | Turkey | 41.459393 | 31.78667 |
| Oxinas on R Oxinem,  | Iliksu Köyü, near Esenköy | Turkey | 41.412321 | 31.68226 |
| Nymphae  | Cavusagzi | Turkey | 41.378872 | 31.604219 |
| Tyndarides  | Kireclik | Turkey | 41.374739 | 31.588112 |
| Posidium  | Alacaagzi | Turkey | 41.36536 | 31.542509 |
| Metroum, Metroon, Aulia | Köseagzi near Bali | Turkey | 41.331225 | 31.464391 |
| Cape Acherousias, Akonai  | vers Kemer Köyü | Turkey | 41.31701 | 31.417137 |
| Herakleia Pontica, Heraclee  | Eregli | Turkey | 41.2821 | 31.413 |
| R Lycus  | R Gülüc South of the port of Eregli | Turkey | 41.245359 | 31.391451 |
|  | Kilisecik near Göktepe  | Turkey | 41.216755 | 31.406413 |
| Nippus, Cales on R Calete  | Alapli on R Alapli | Turkey | 41.182038 | 31.375819 |
| Elaios on R Elaeus  | near Kocaman | Turkey | 41.119224 | 31.300354 |
| Kalesa, Kelesa | near Cayagzi | Turkey | 41.1 | 31.215 |
| Lilius, Lilaios  | East of Akcakoca | Turkey | 41.0967 | 31.186 |
| Dia, Diaspolis, Diospolis | Akcakoca | Turkey | 41.0924 | 31.1233 |
| R Hypius, Hippius | R Melen, Buyukmelen, near Melenagzi | Turkey | 41.079158 | 30.967863 |
| R Sangarius, border of Bithynia | R Sakarya near Ihsaniye | Turkey | 41.130681 | 30.649346 |
| Chalai, Cheles  | Dikili Sahili | Turkey | 41.195 | 30.337 |
| Isle of Thynias, Isle of Apollonia  | Kefken Adasi | Turkey | 41.214126 | 30.260447 |
| Rhoe on R Rhoes  | Kefken | Turkey | 41.1704 | 30.224412 |
| Calpas, Calpe, Kalpe  | Kerpe | Turkey | 41.156349 | 30.194158 |
| Tenba  | near Bagirganli | Turkey | 41.140762 | 30.019743 |
| Psillion on R Psillis  | Yesilcay on R Agua, Göksu | Turkey | 41.143723 | 29.847963 |
| Artanes and Chelaita on R Artanes  | Sile | Turkey | 41.178163 | 29.60646 |
| Rhebas on R Rhebas  | Riva on R Iriva, near Cayagzi | Turkey | 41.226963 | 29.210147 |