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Appendixes Part

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APPENDIX 1: FIGURES 1: ORO-HYDROGRAPHIC CHARACTERISTICS OF WATERSHEDS AND GOOGLE IMAGES

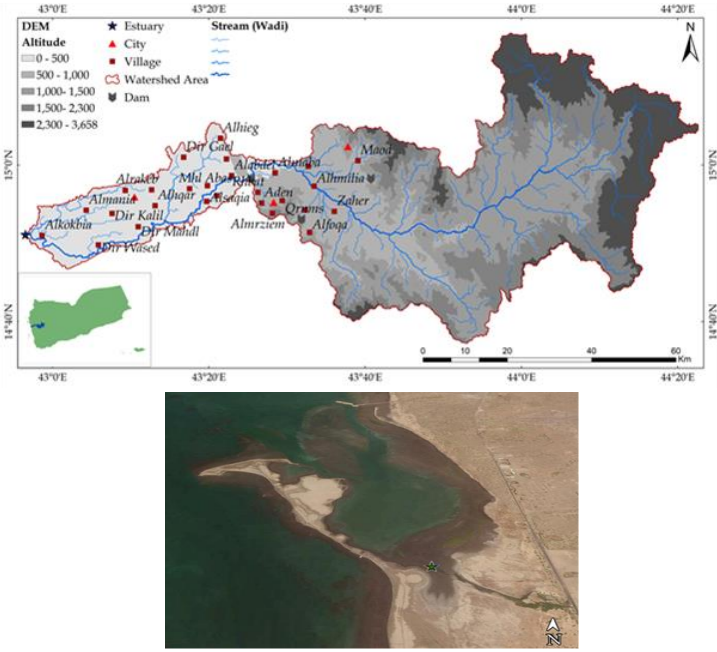


Figure 1. Oro-hydrographic Characteristics of Watershed: Almhiam, Alhodidah (top) & The satellite view of Estuary of Alkokbia (2018) (below).

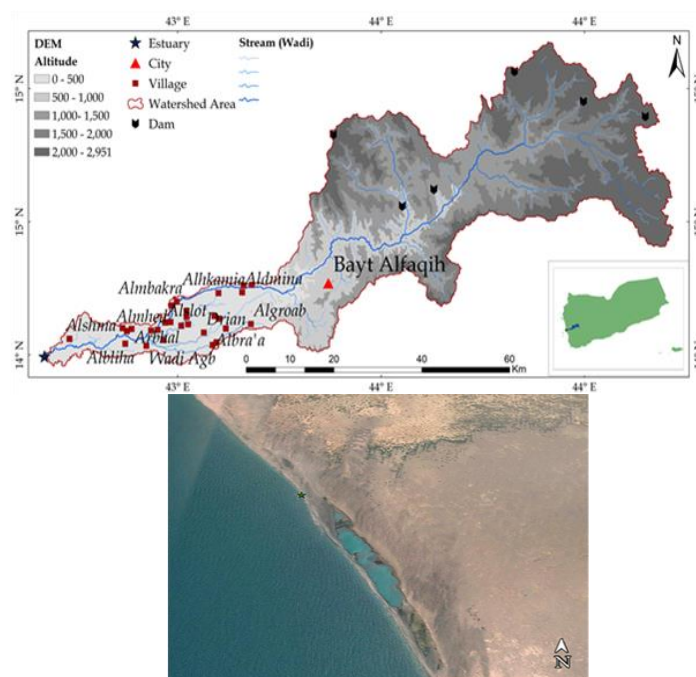
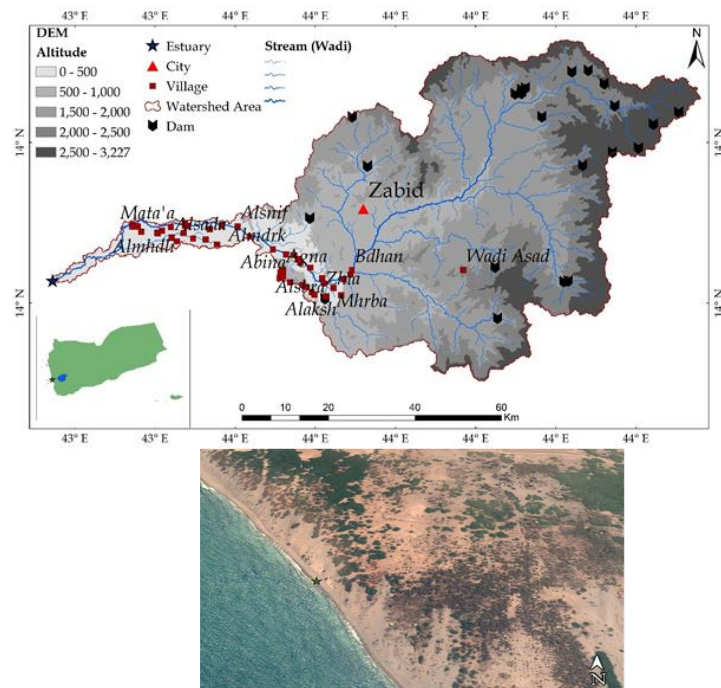
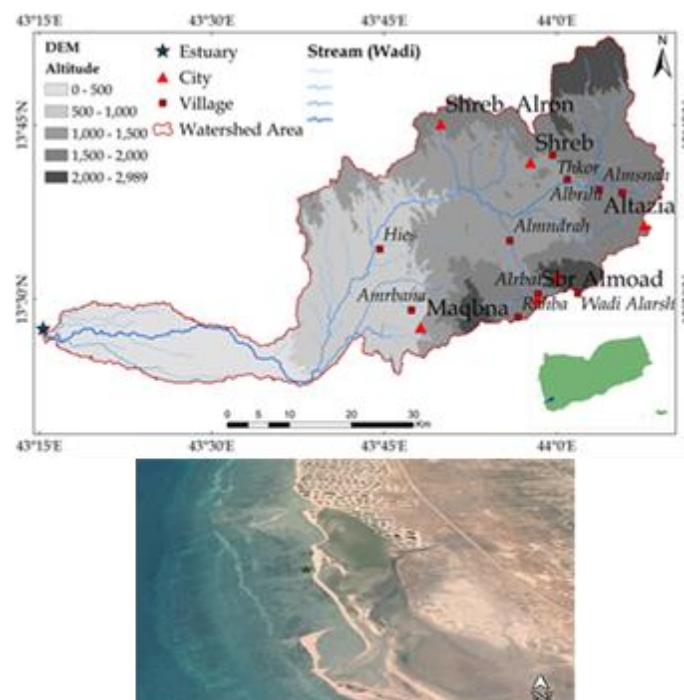
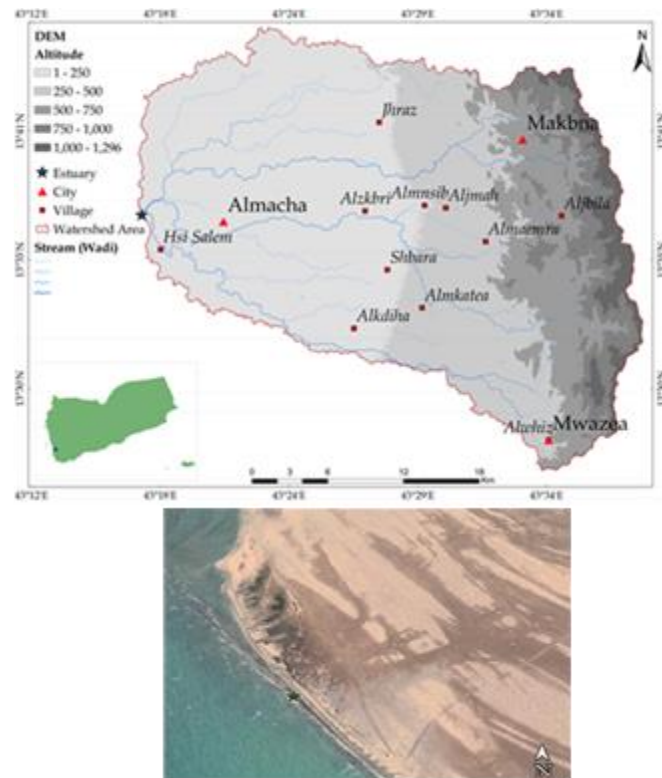
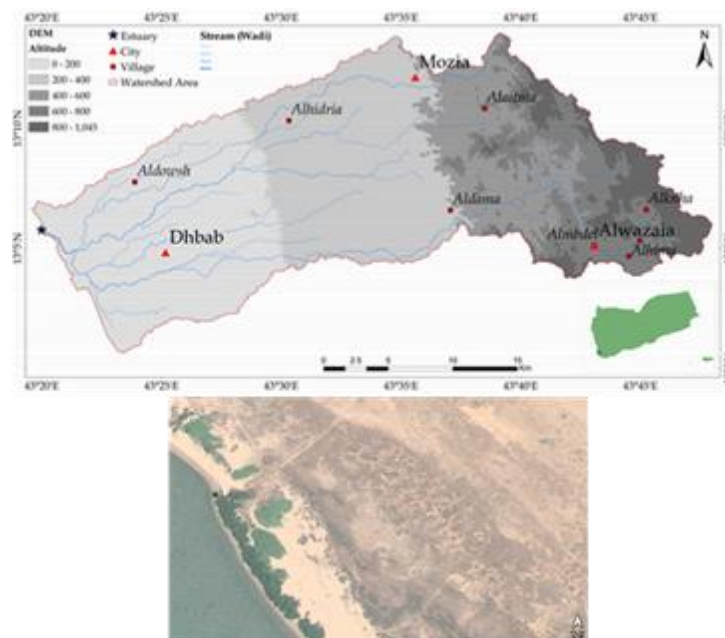
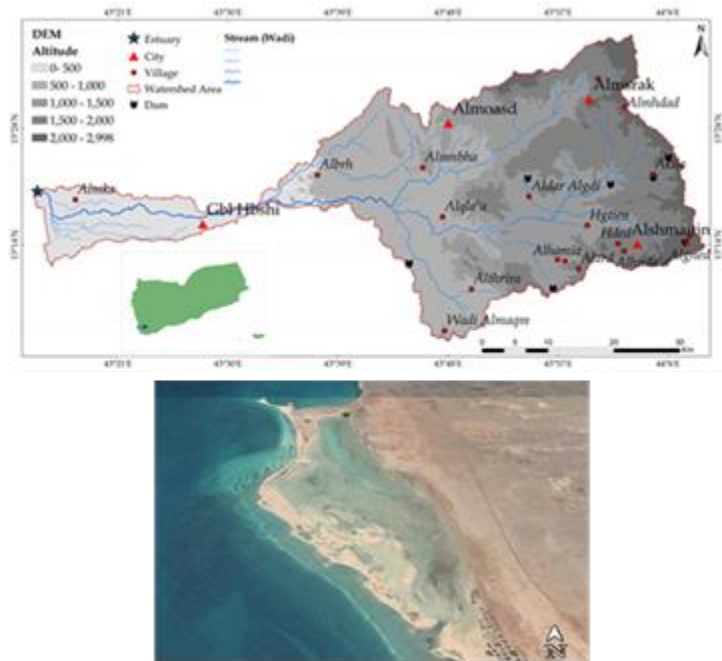


Figure 2. Oro-hydrographic Characteristics of Watershed: Remaa (top) & The satellite view of lagoon of Alshma (1998) (below).







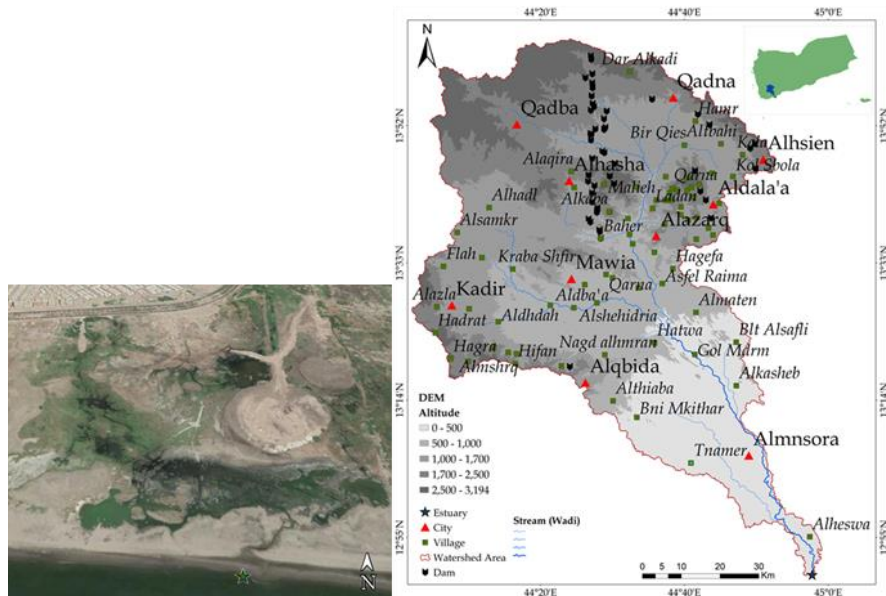


Figure 13. Oro-hydrographic Characteristics of Watershed: Tobun, Aden (right) & The satellite view of Alheswa Estuary (2019) (left).

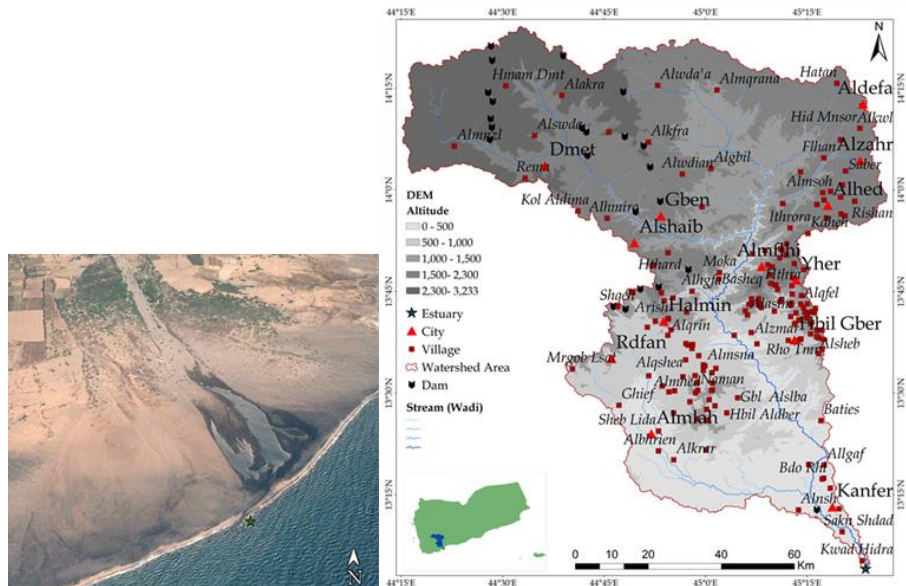


Figure 14. Oro-hydrographic Characteristics of Watershed: Bana, Abyan (right) & The satellite view of Kwd Hidra Estuary (2011) (left).

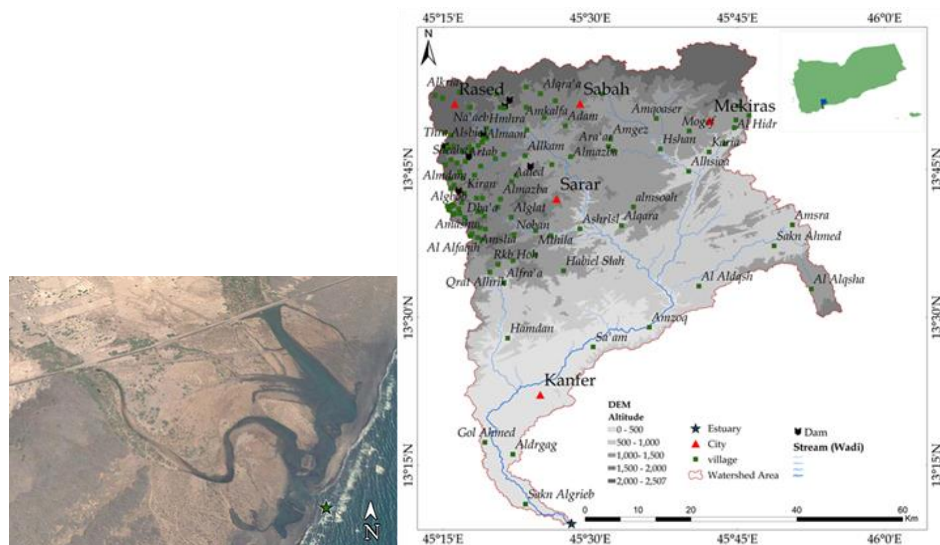


Figure 15. Oro-hydrographic Characteristics of Watershed: Hassan, Abyan (right)& The satellite view of Sakn Algrieb Estuary (left).

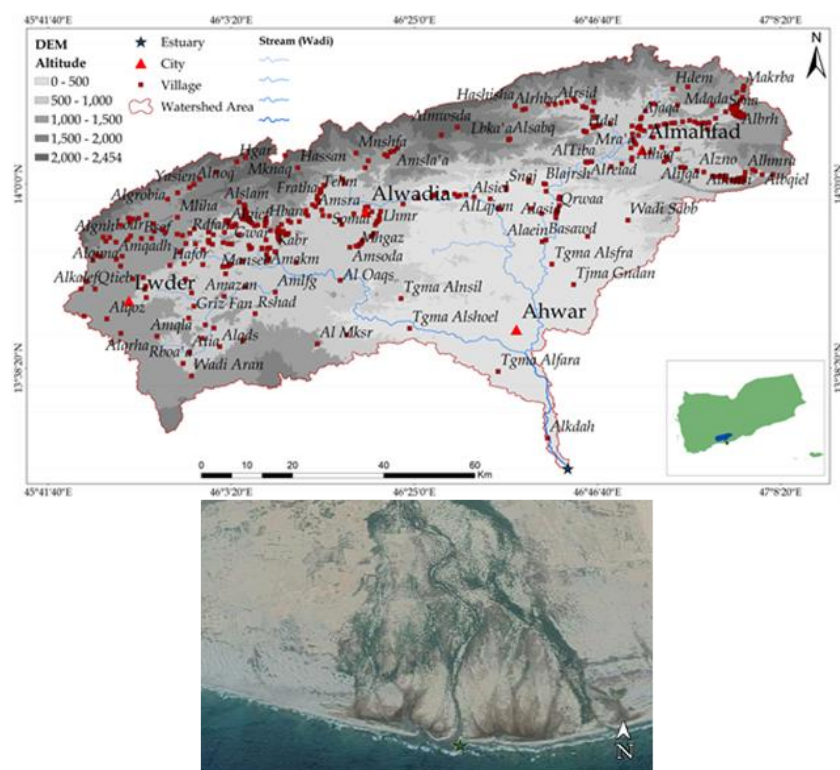


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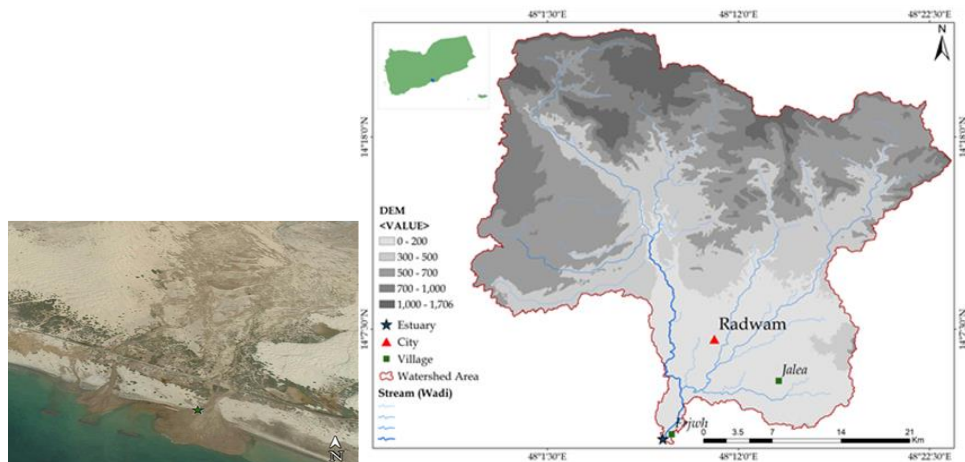


Figure 19. Oro-hydrographic Characteristics of Watershed: Alhawil, Shabwah (right)& The satellite view of Frejwh Estuary (2015) (left).

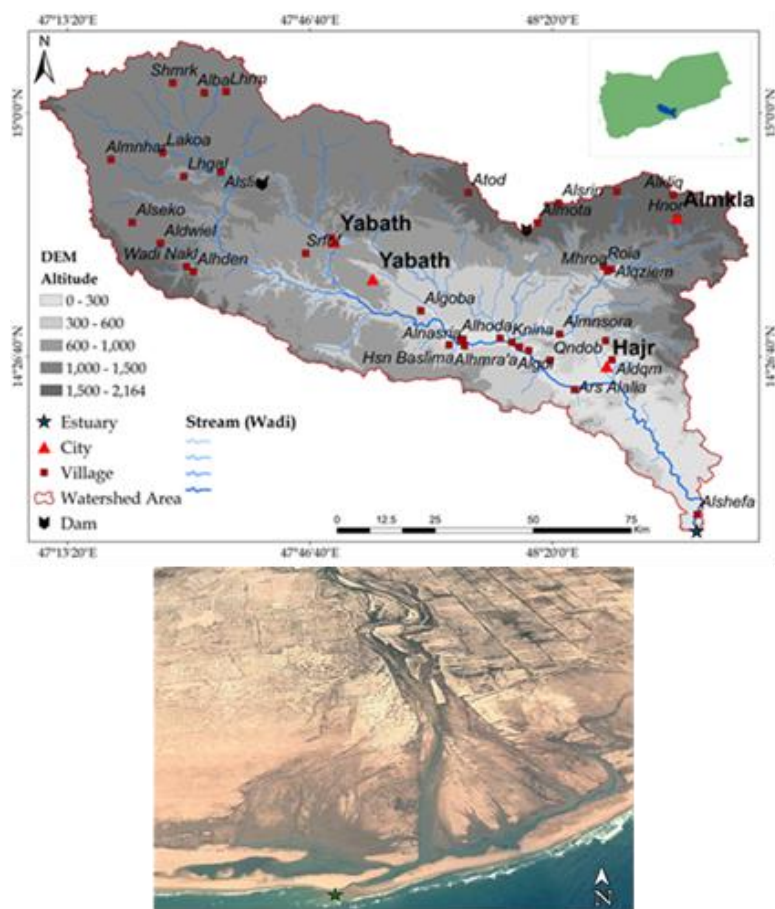


Figure 20. Oro-hydrographic Characteristics of Watershed: Jaher, Hadramawt (top)& The satellite view of Alshefa Estuary (2010) (below).

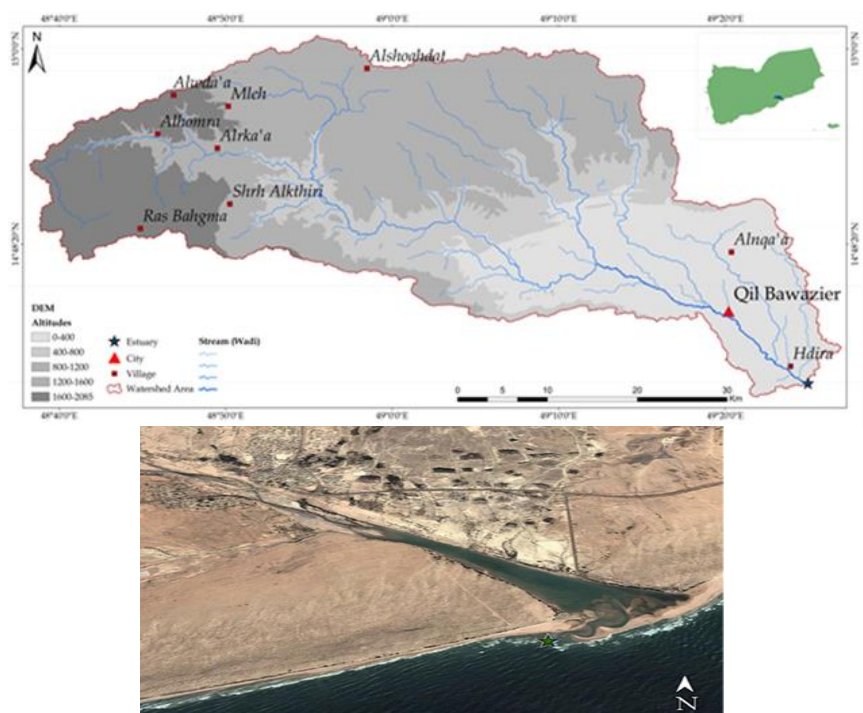


Figure 21. Oro-hydrographic Characteristics of Watershed: Harirah, Hadramawt (top)& The satellite view of Hadira Estuary (2012) (below).

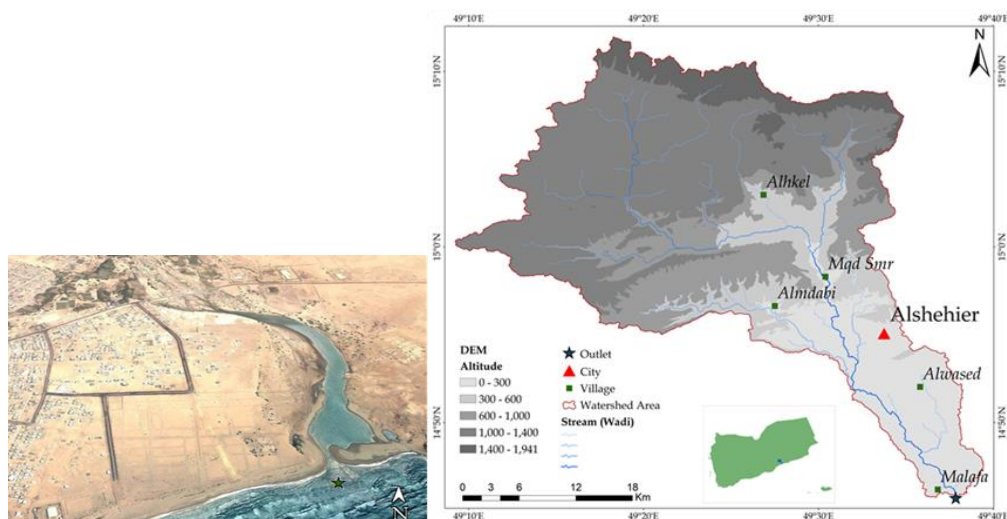


Figure 22. Oro-hydrographic Characteristics of Watershed: Aref, Hadramawt (right)& The satellite view of Malafa Estuary (2012) (left).

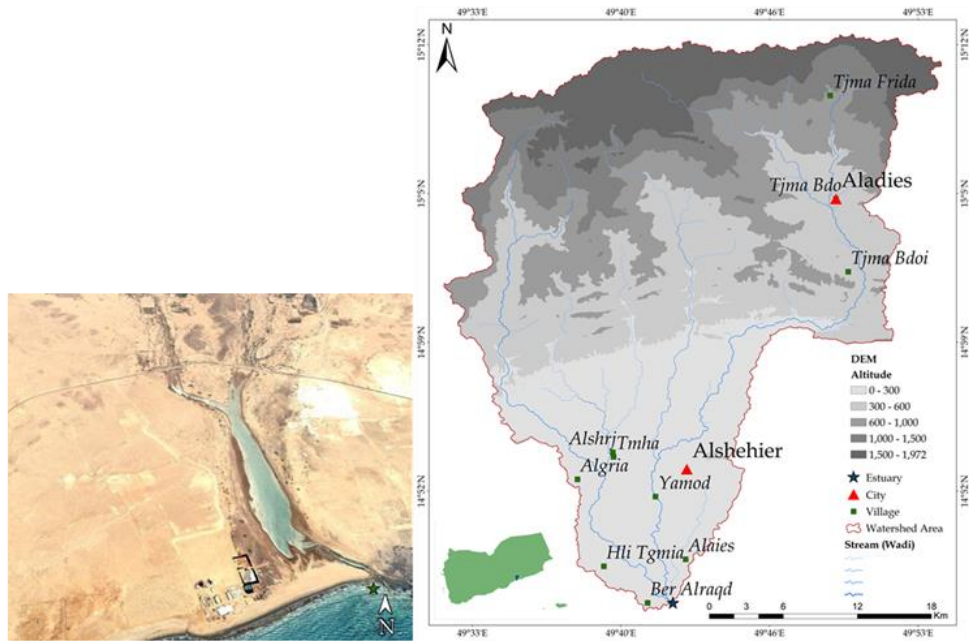


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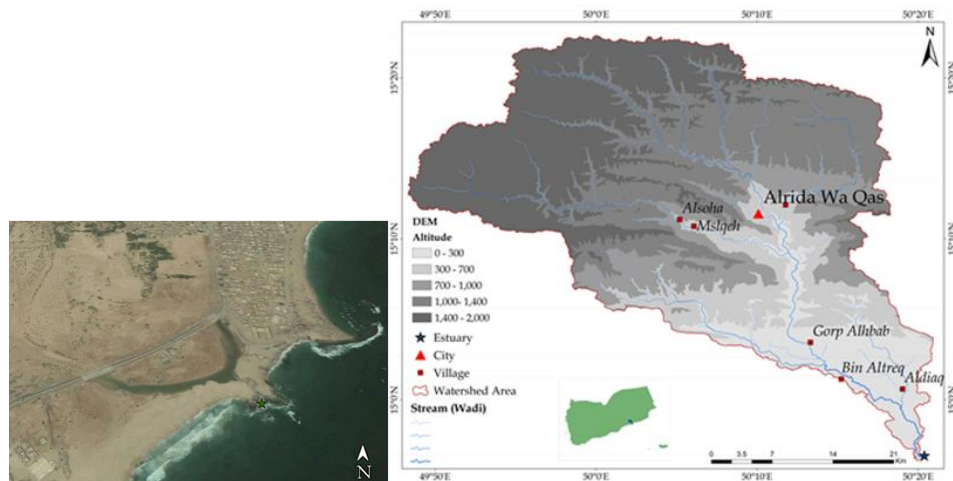


Figure 24. Oro-hydrographic Characteristics of Watershed: Maber, Hadramawt (right) & The satellite view of Aldiaq Estuary (2017) (left).

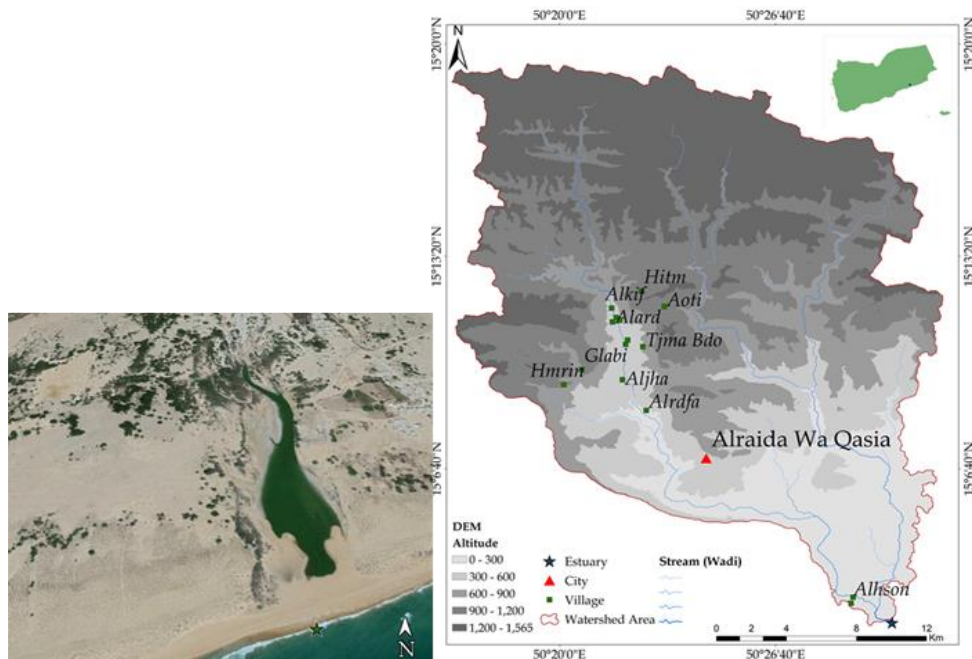


Figure 25. Oro-hydrographic Characteristics of Watershed: Sarf Haiwm, Hadramawt (right)& The satellite view of Alhsoh Estuary (2017) (left).

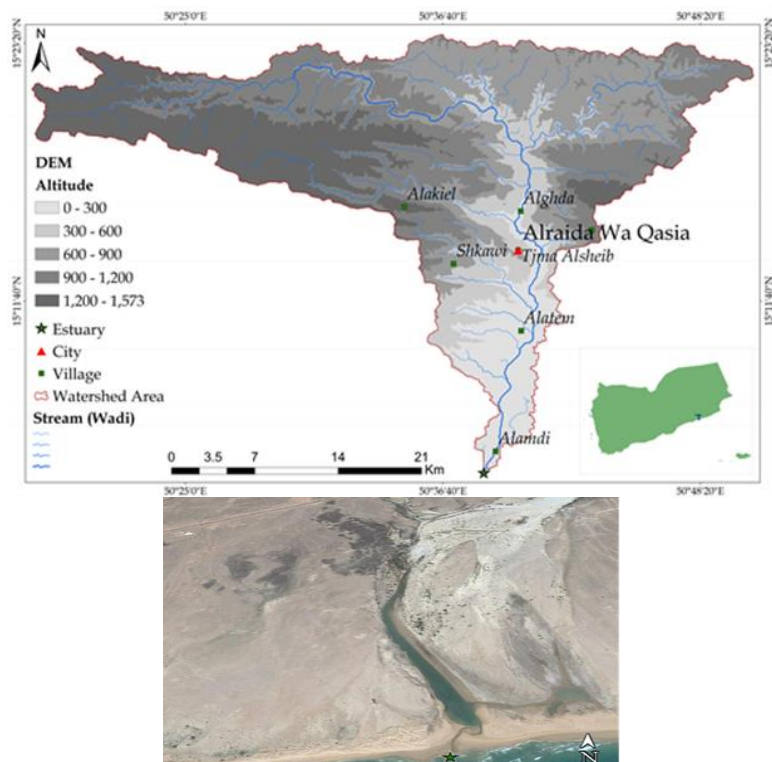


Figure 26. Oro-hydrographic Characteristics of Watershed: Almadei, Hadramawt (top)& The satellite view of Almadei Estuary (2015) (below).

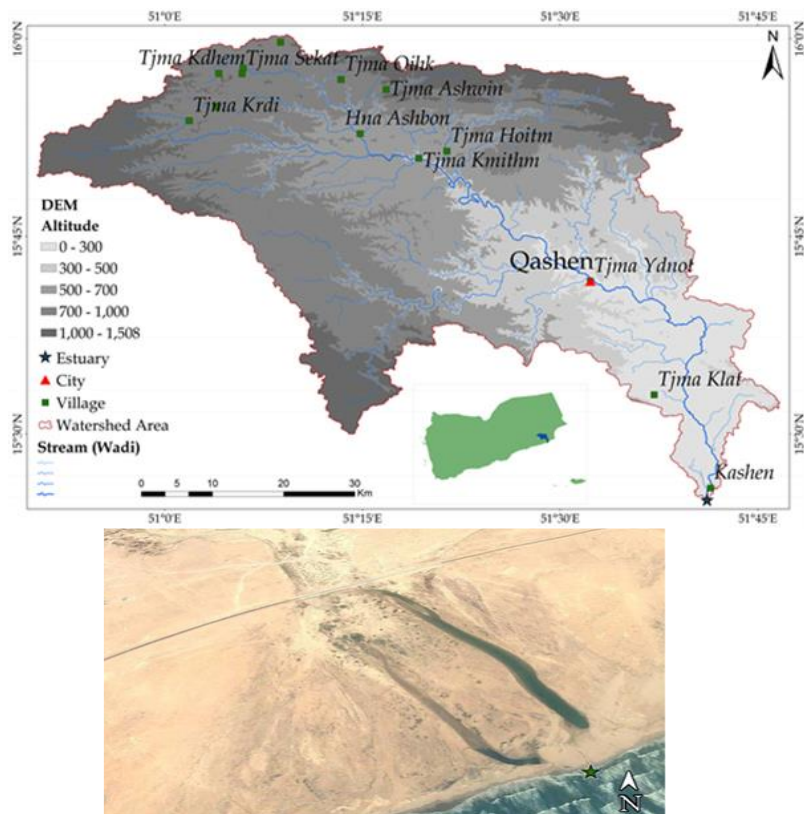


Figure 27. Oro-hydrographic Characteristics of Watershed: Aidnwet, Almahra (right) & The satellite view of Kashen Estuary (2009) (below).

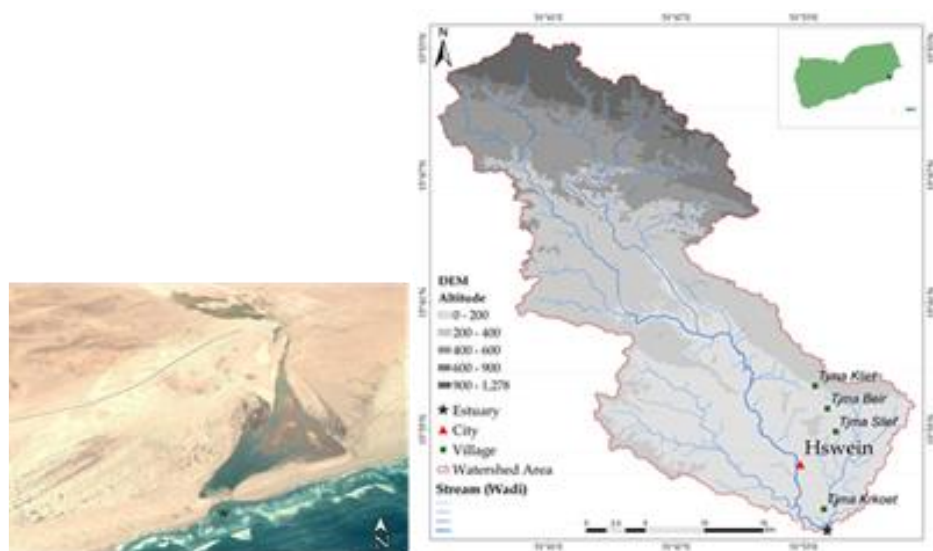


Figure 28. Oro-hydrographic Characteristics of Watershed: Kwao, Almahra (right) & The satellite view of Tjma Krkoet Estuary (2009) (left).

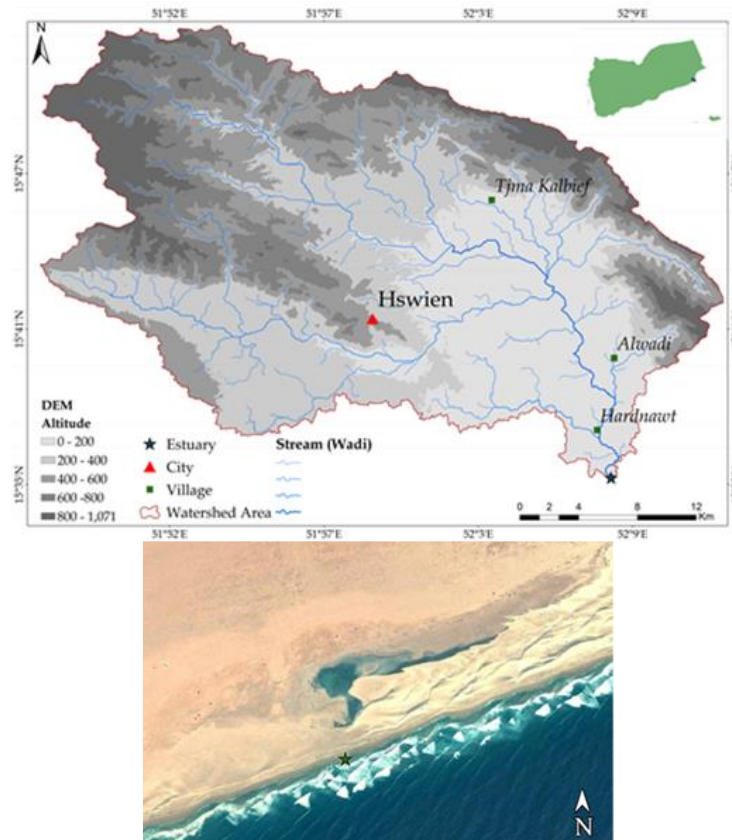


Figure 29. Oro-hydrographic Characteristics of Watershed: Shahin, Almahra (top)& The satellite view of Hardnawt Estuary (2009) (below).

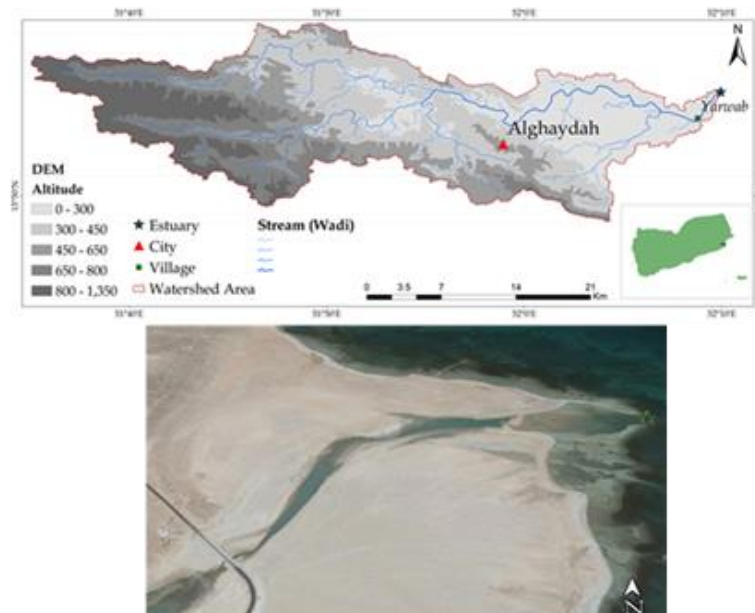


Figure 30. Oro-hydrographic Characteristics of Watershed: Raiwt, Almahra (top)& The satellite view Yarwab of Estuary (2015) (below).

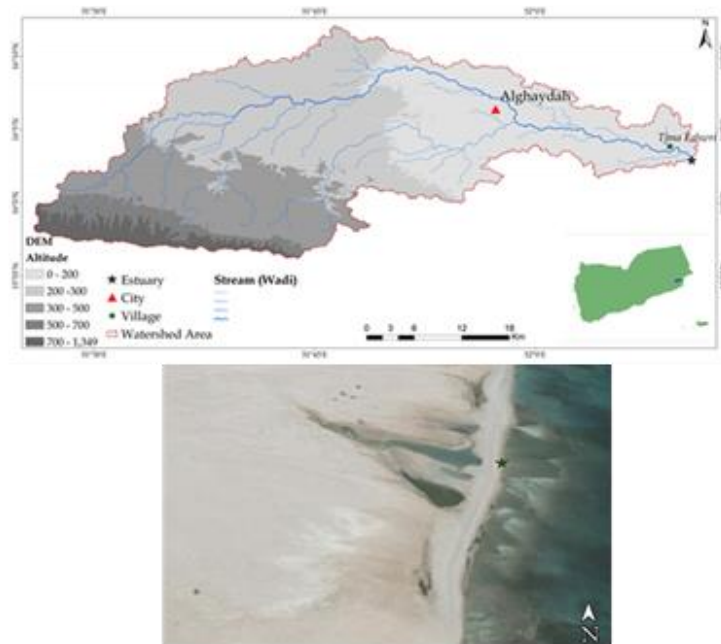


Figure 31. Oro-hydrographic Characteristics of Watershed: Radhayt, Almahra (top) & The satellite view of Tjma Fahwri Estuary (2015) (below).

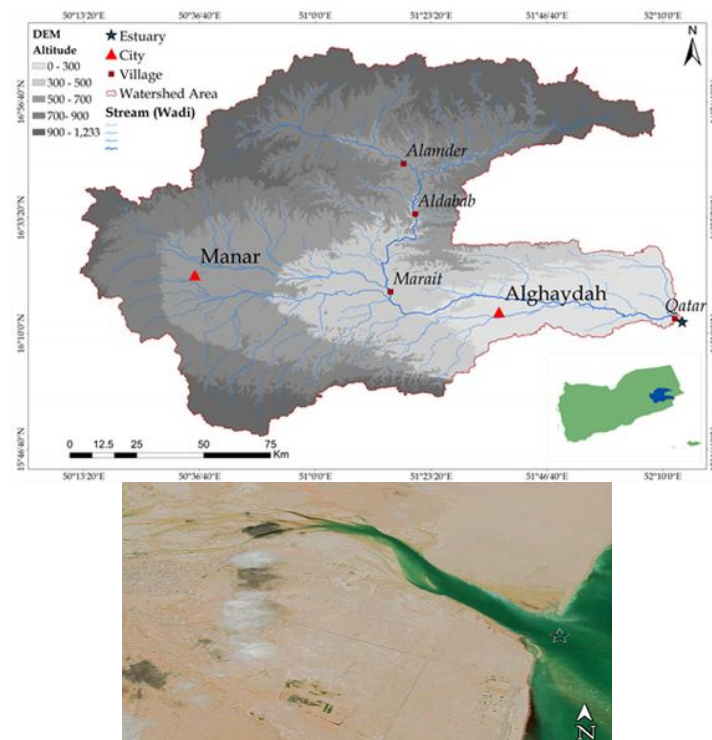


Figure 32. Oro-hydrographic Characteristics of Watershed: Dahawn, Almahra (top) & The satellite view of Qatar Estuary (2018) (below).

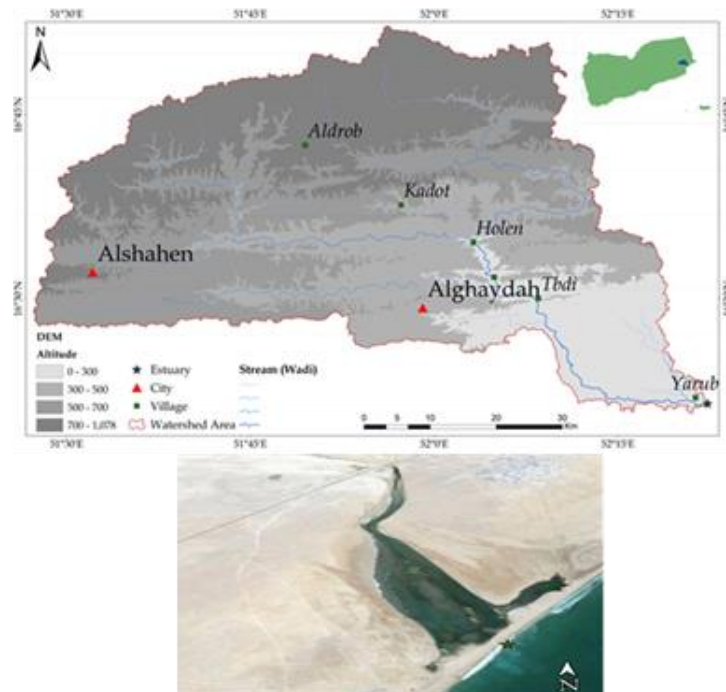


Figure 33. Oro-hydrographic Characteristics of Watershed: Kadiwth, Almahra (top)& The satellite view of Yarub Estuary (2011) (below).

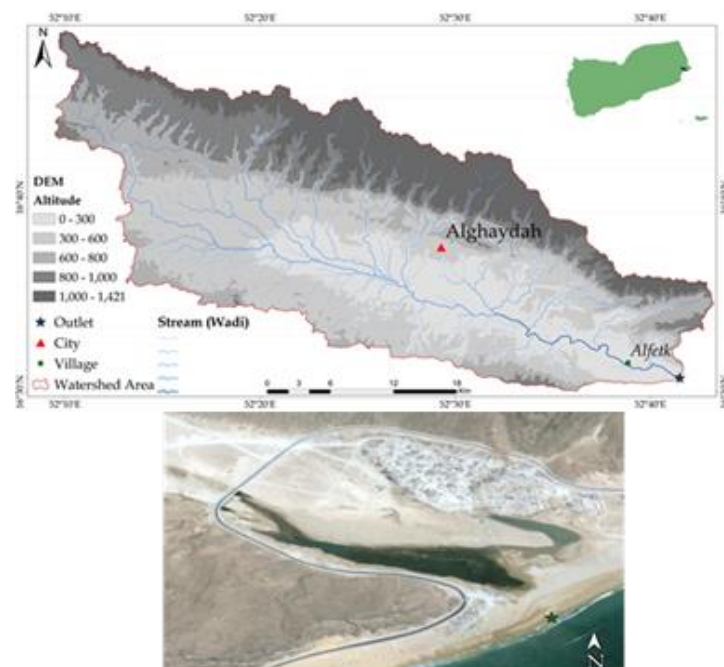


Figure 34. Oro-hydrographic Characteristics of Watershed: Shafrwet, Almahra (top)& The satellite view of Alfetk Estuary (2019) (below).



Figure 35. Oro-hydrographic Characteristics of Watershed: Shihan, Almahra (top)& The satellite view of Hawf Estuary (2019) (below).

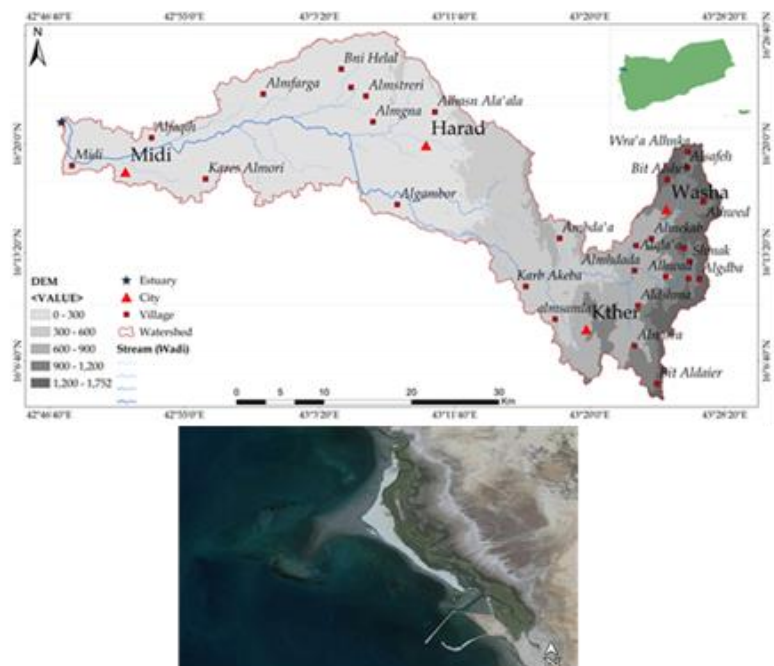


Figure 36. Oro-hydrographic Characteristics of Watershed: Hared, Hajah (top)& The satellite view of Midi Lagoon (2018) (below).

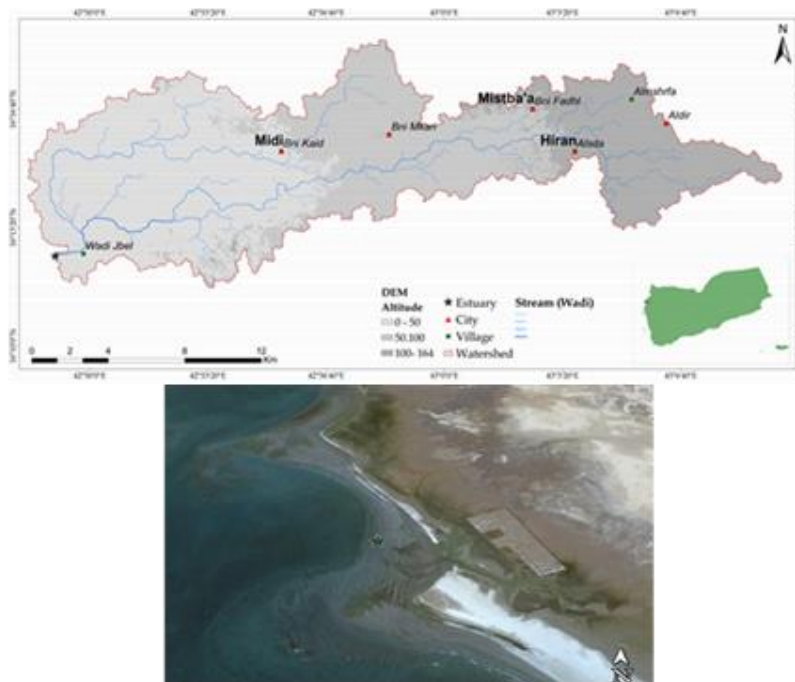


Figure 37. Oro-hydrographic Characteristics of Watershed: Hairan, Hajah (top) & The satellite view of Wadi Jabel Lagoon (2014) (below).

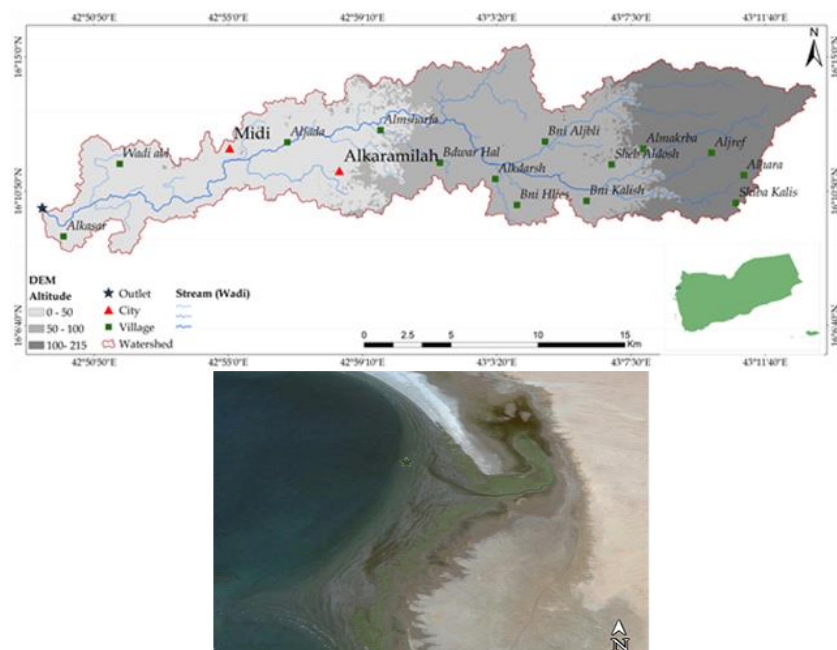


Figure 38. Oro-hydrographic Characteristics of Watershed: Alsheaba, Hajah (top) & The satellite view of Alkasr Estuary (Mangrove) (2014) (below).

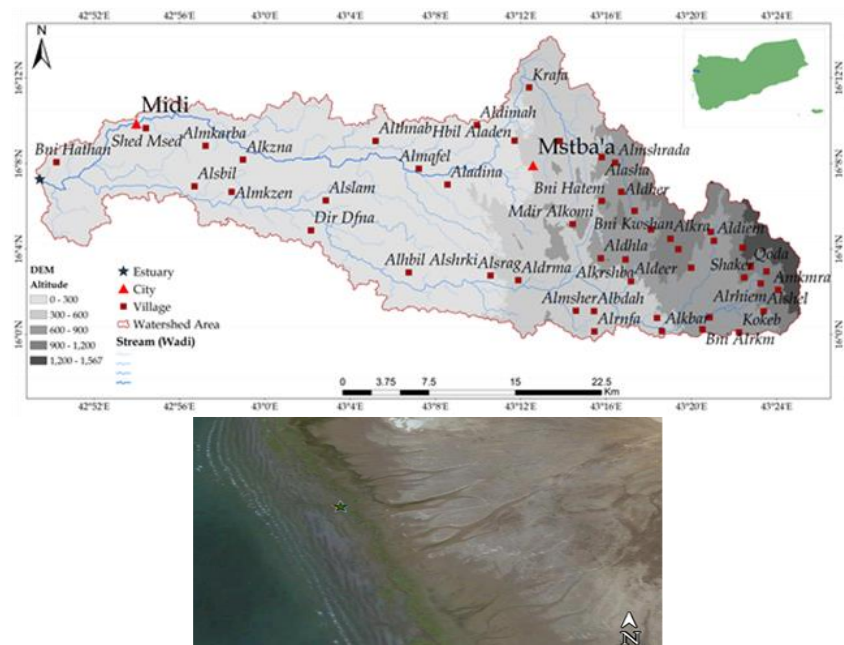


Figure 39. Oro-hydrographic Characteristics of Watershed: Habel, Hajah (top)& The satellite view of Mersi Hadel Estuary (Mangrove) (2014) (below).

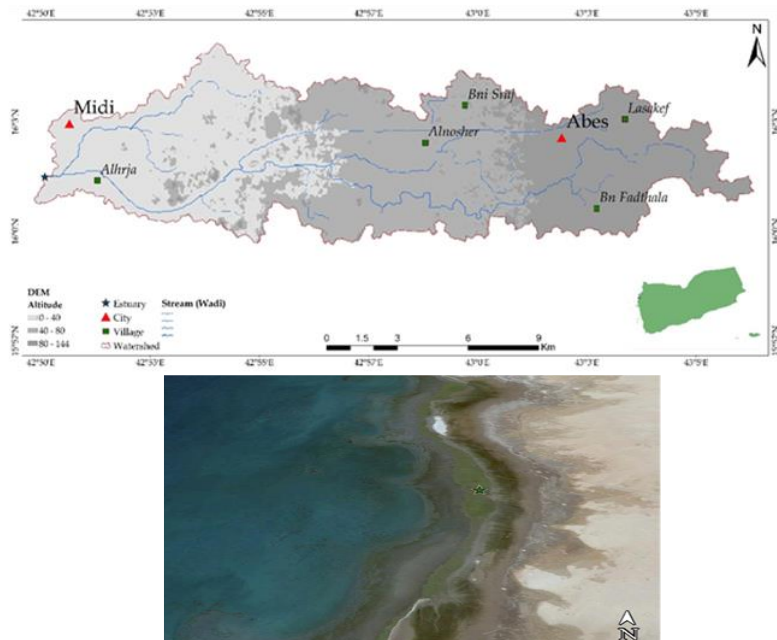


Figure 40. Oro-hydrographic Characteristics of Watershed: Aljeser, Hajah (top)& The satellite view of Alhrja Estuary (2014) (Mangrove) (below).

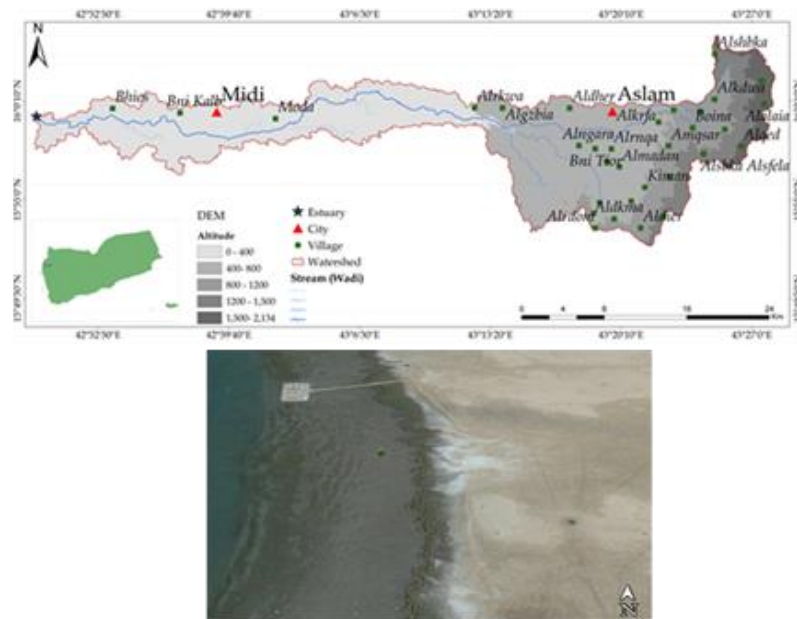


Figure 41. Oro-hydrographic Characteristics of Watershed: Alqwer, Hajah (top)& The satellite view of Bhies Estuary (2016) (below).

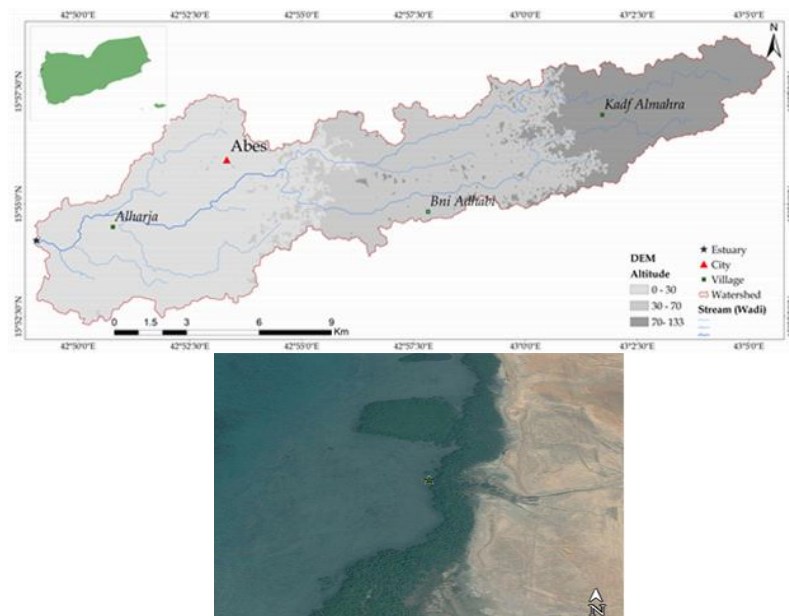


Figure 42. Oro-hydrographic Characteristics of Watershed: Alhbab, Hajah (top)& The satellite view of Alharja Estuary (Mangrove) (2016) (below).

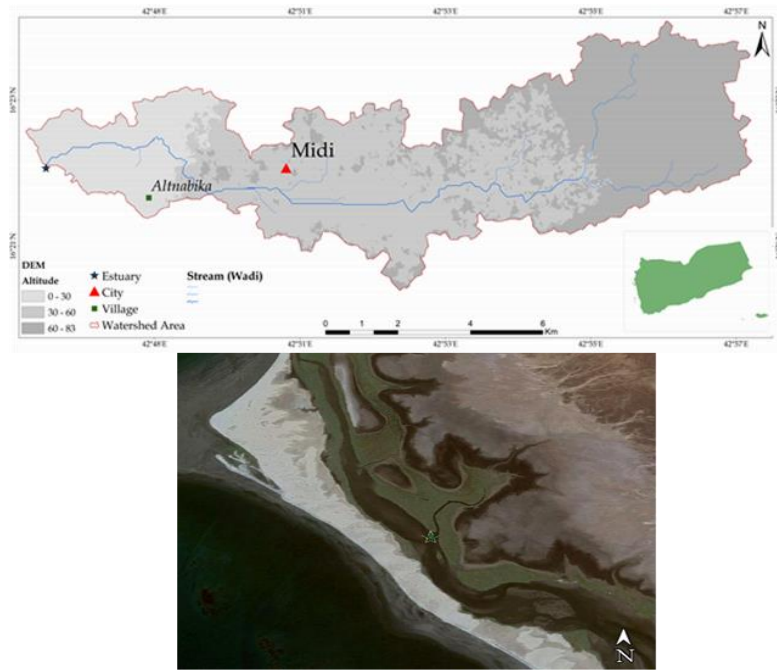


Figure 43. Oro-hydrographic Characteristics of Watershed: Rahban, Midi, Hajah (top)& The satellite view of Altnabika Estuary (Lagoon) (2016) (below).

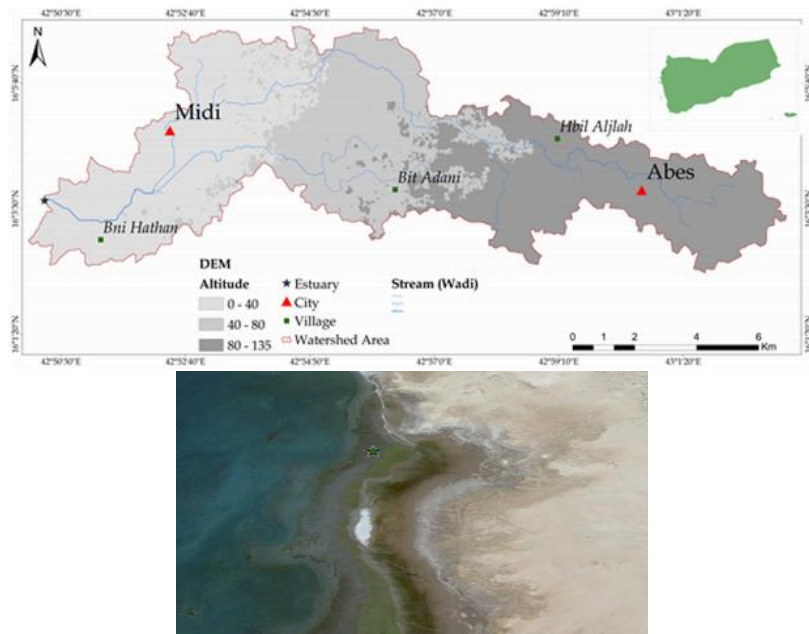


Figure 44. Oro-hydrographic Characteristics of Watershed: Aljalhwf, Hajah (top)& The satellite view of Bni Hathan Estuary (Seagrass) (2014) (below).

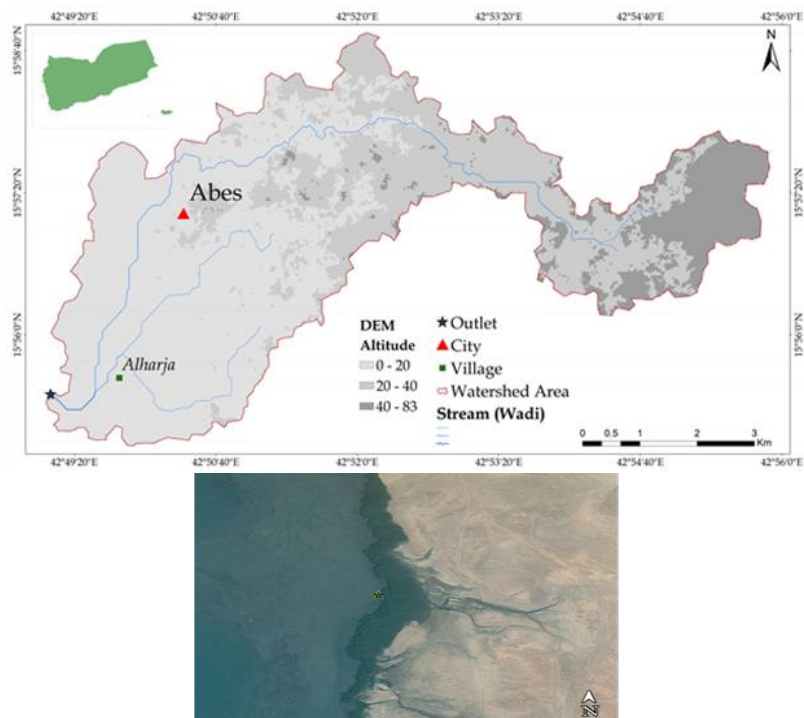


Figure 45. Oro-hydrographic Characteristics of Watershed: Alqwar, Hajah (top)& The satellite view of Alharja Estuary (Mangrove) (2009) (below).

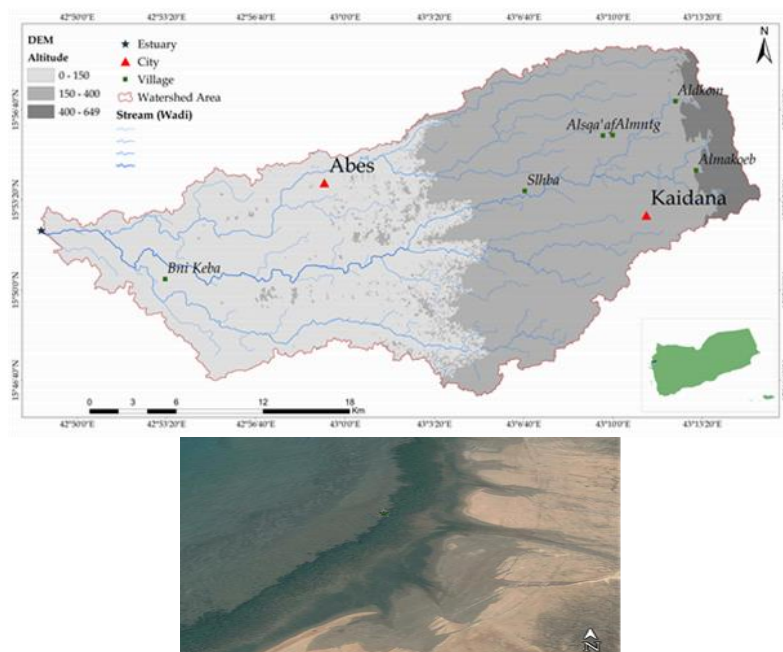


Figure 46. Oro-hydrographic Characteristics of Watershed: Aleian, Alhodidah (top)& The satellite view of Bni Keba Estuary (Mangrove) (2009) (below).

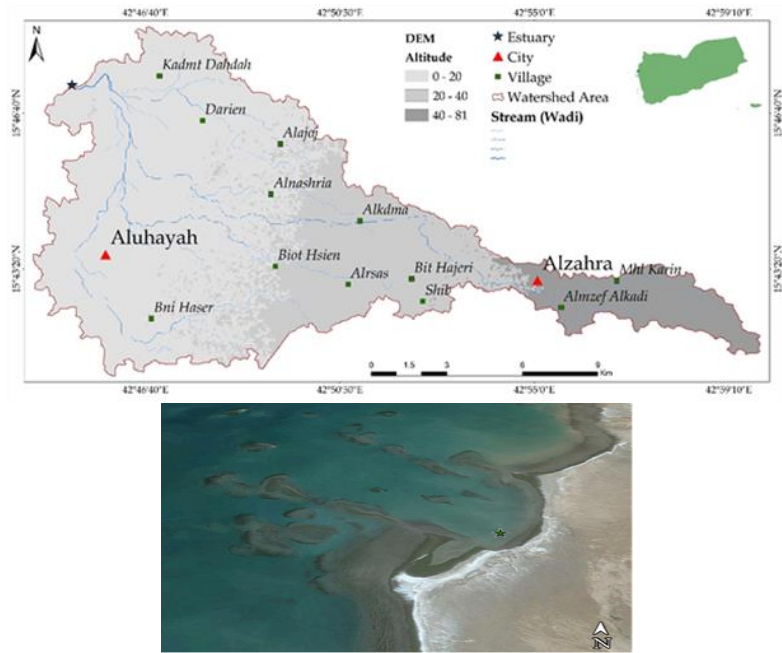


Figure 47. Oro-hydrographic Characteristics of Watershed: Abaas, Alhodidah (top)& The satellite view of Kadmt Dahdah Estuary (2016) (below).



Figure 48. Oro-hydrographic Characteristics of Watershed: Jabel Almelh, Alhodidah (top)& The satellite view of Jabel Bni Alhareb Estuary (2016) (below).

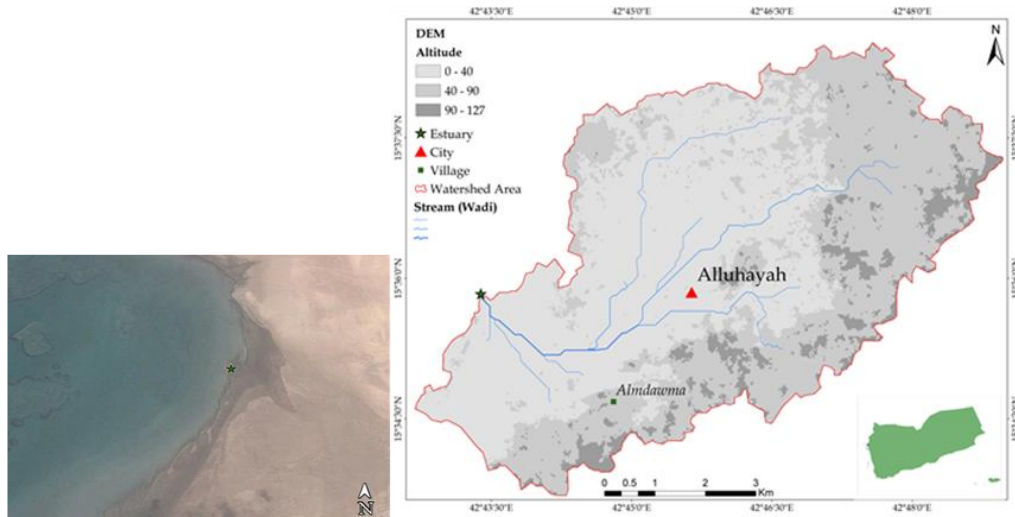


Figure 51. Oro-hydrographic Characteristics of Watershed: Alarma, Alhodidah (right)& The satellite view of Almdawma Estuary (2010) (left).

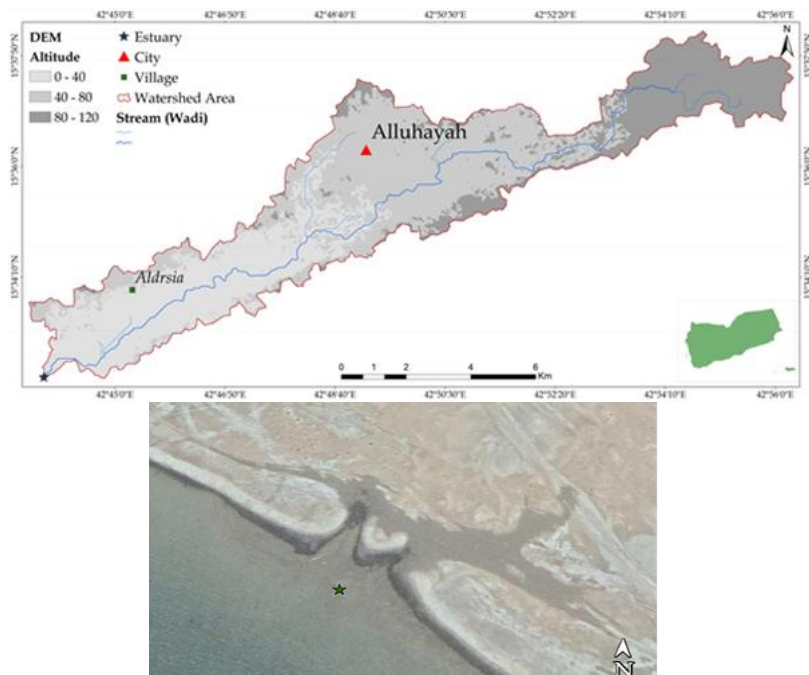
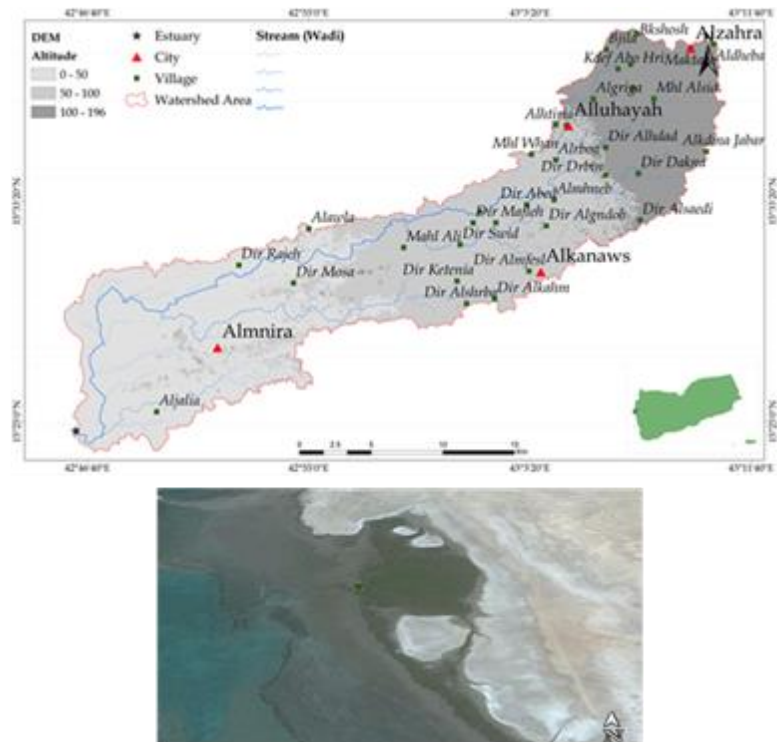
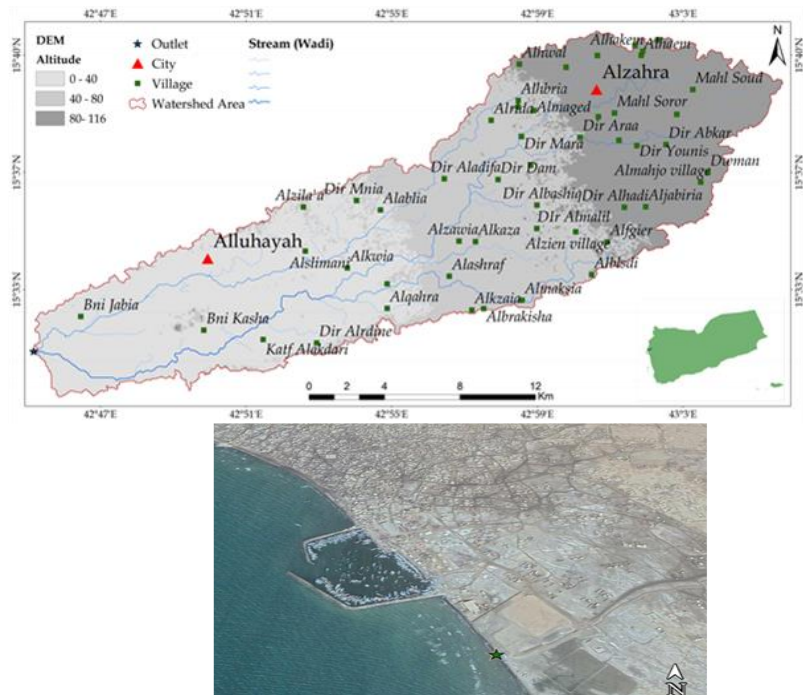


Figure 52. Oro-hydrographic Characteristics of Watershed: Rba Aldoes, Alhodidah (top)& The satellite view of Aldrsia Estuary (2019) (below).



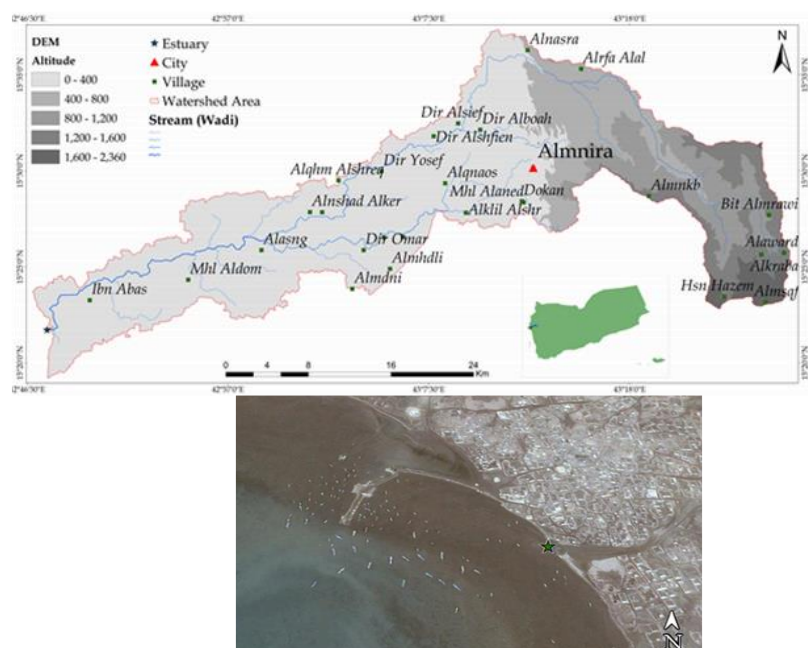


Figure 55. Oro-hydrographic Characteristics of Watershed: Hateb, Alhodidah (top)& The satellite view of Ibn Abas Estuary (2016) (below).

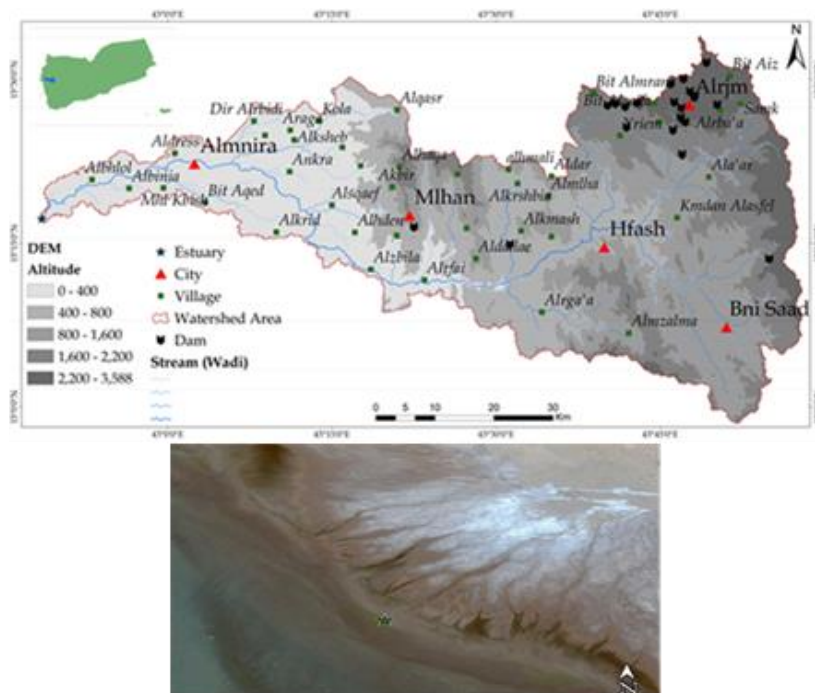


Figure 56. Oro-hydrographic Characteristics of Watershed: Mekneq, Alhodidah (top)& The satellite view of Albhlol Estuary (Delta) (2016) (below).

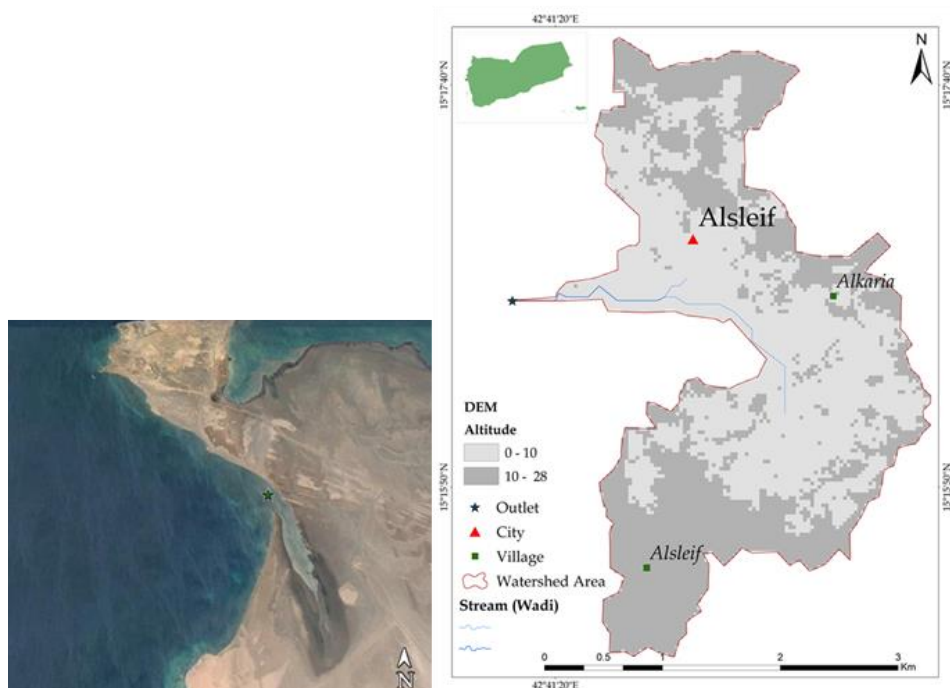


Figure 59. Oro-hydrographic Characteristics of Watershed: Alqaria, Alhodidah (right)& The satellite view of Alsleif Estuary (2012) (left).

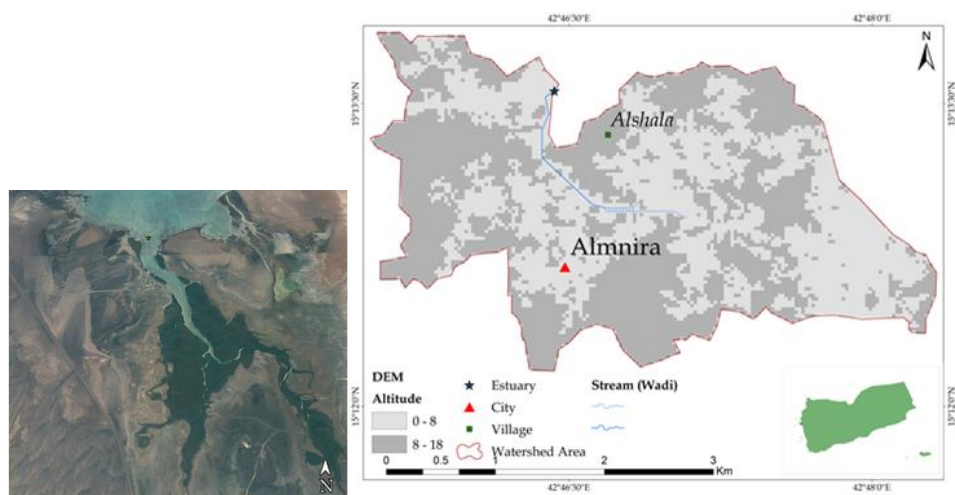


Figure 60. Oro-hydrographic Characteristics of Watershed: Alqhim, Alhodidah (right)& The satellite view of Alshala Estuary (2012) (left).

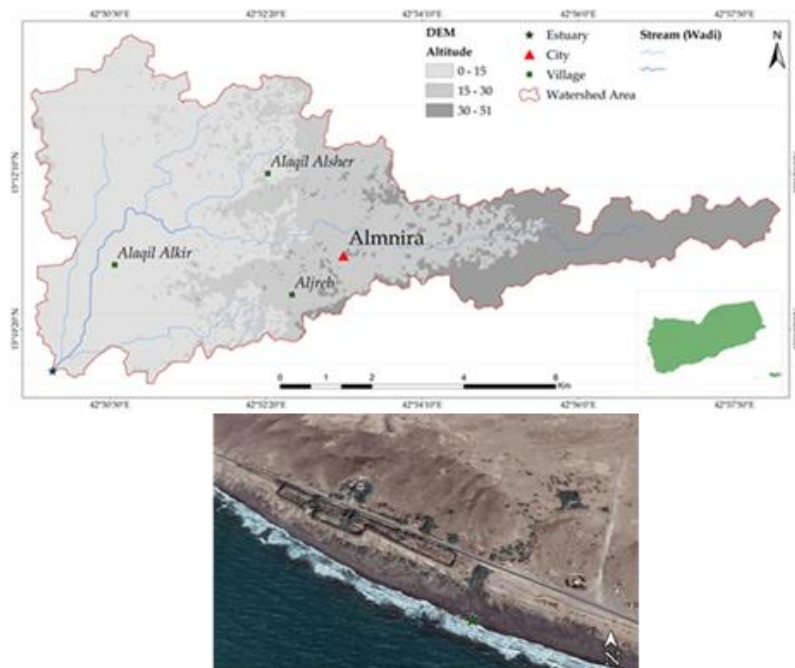


Figure 61. Oro-hydrographic Characteristics of Watershed: Aljrab, Alhodidah (top)& The satellite view of Alaqil Alkir Estuary (2019) (below).

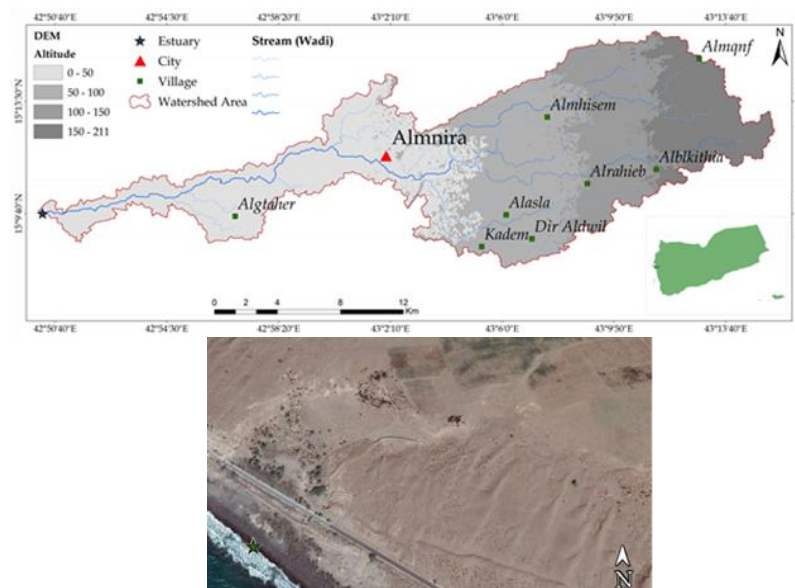


Figure 62. Oro-hydrographic Characteristics of Watershed: Surdud, Alhodidah (top)& The satellite view of Algtaher Estuary (2019) (below).

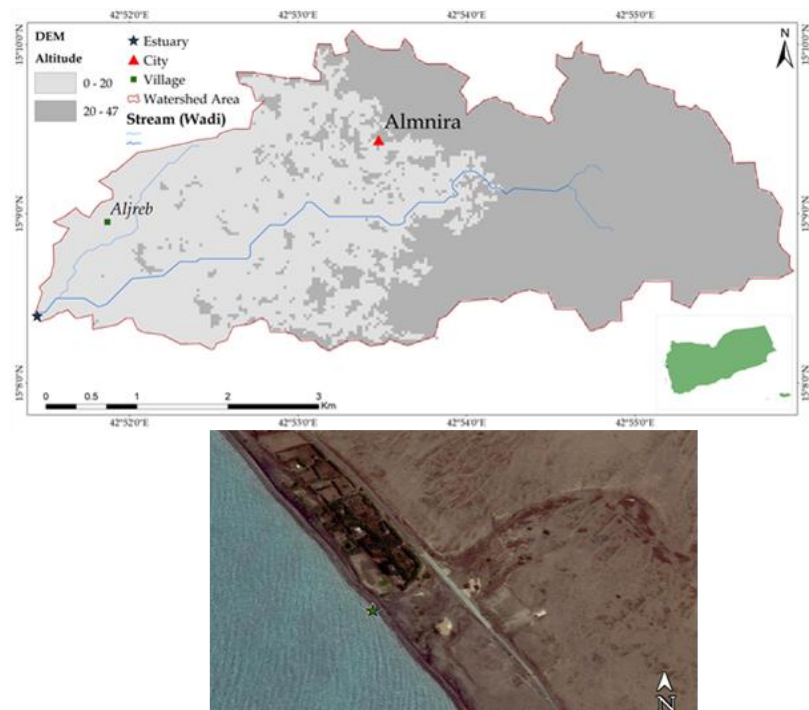


Figure 63. Oro-hydrographic Characteristics of Watershed: Shwail, Alhodidah (top) & The satellite view of Aljreb Estuary (2016) (below).

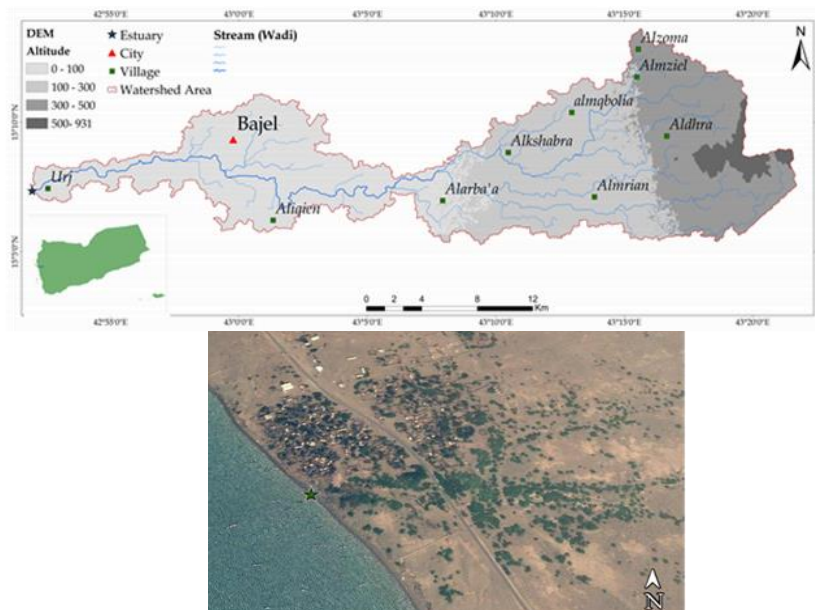


Figure 64. Oro-hydrographic Characteristics of Watershed: Alawrth, Alhodidah (top) & The satellite view of Urj Estuary (2010) (below).

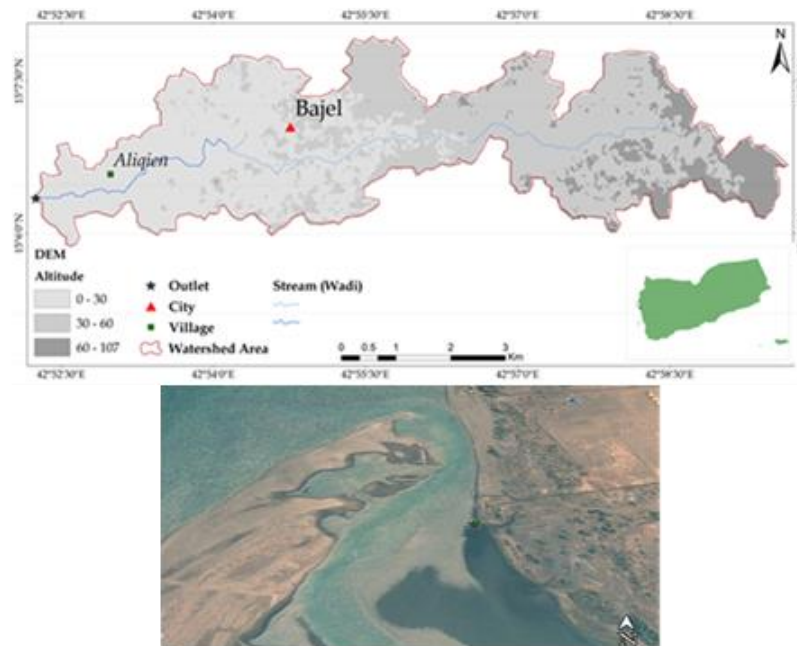


Figure 65. Oro-hydrographic Characteristics of Watershed: Esam, Alhodidah (top)& The satellite view of Aliqien Estuary (Lagoon) (2016) (below).

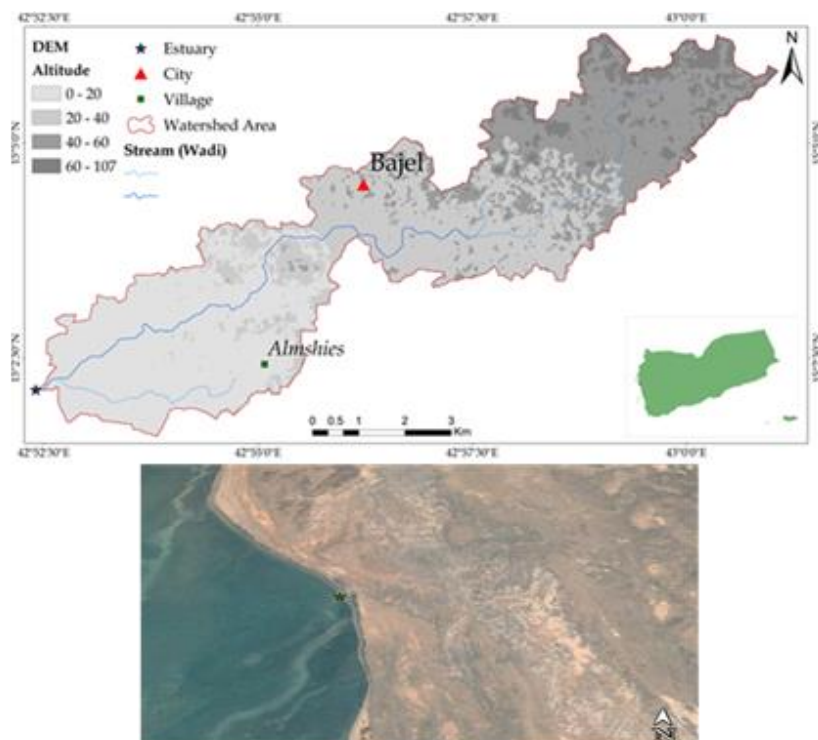


Figure 66. Oro-hydrographic Characteristics of Watershed: Dayan, Alhodidah (top)& The satellite view of Almshies Estuary (2005) (below).

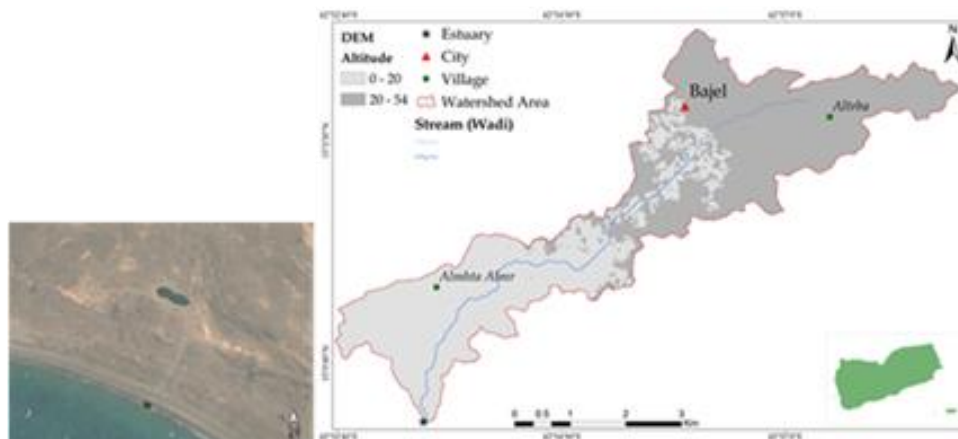


Figure 67. Oro-hydrographic Characteristics of Watershed: Alterba, Alhodidah (right)& The satellite view of Almhta Almr Estuary (2005) (left).

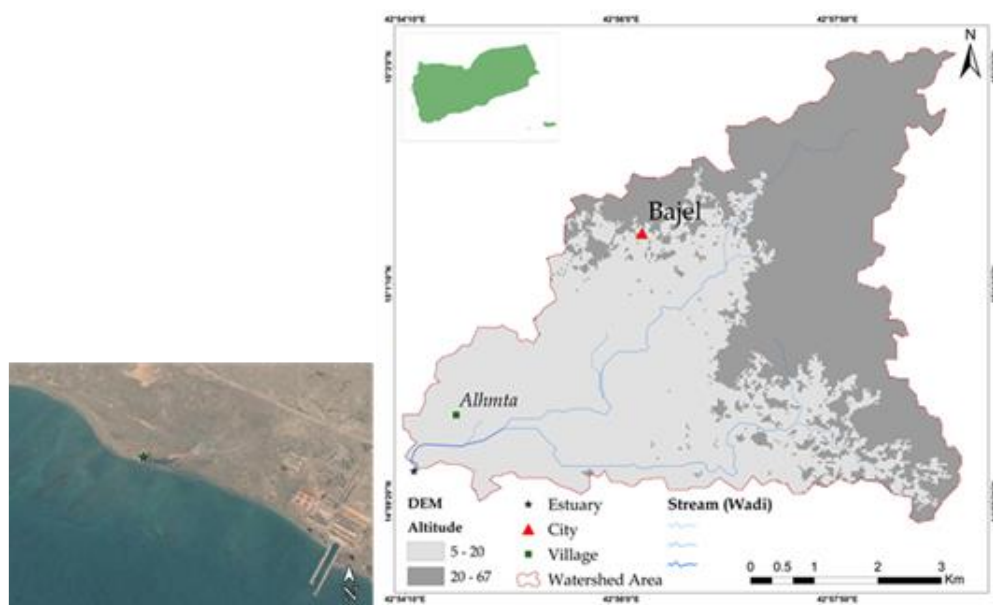


Figure 68. Oro-hydrographic Characteristics of Watershed: Nawia, Alhodidah (right)& The satellite view of Alhmra Estuary (2005) (left).

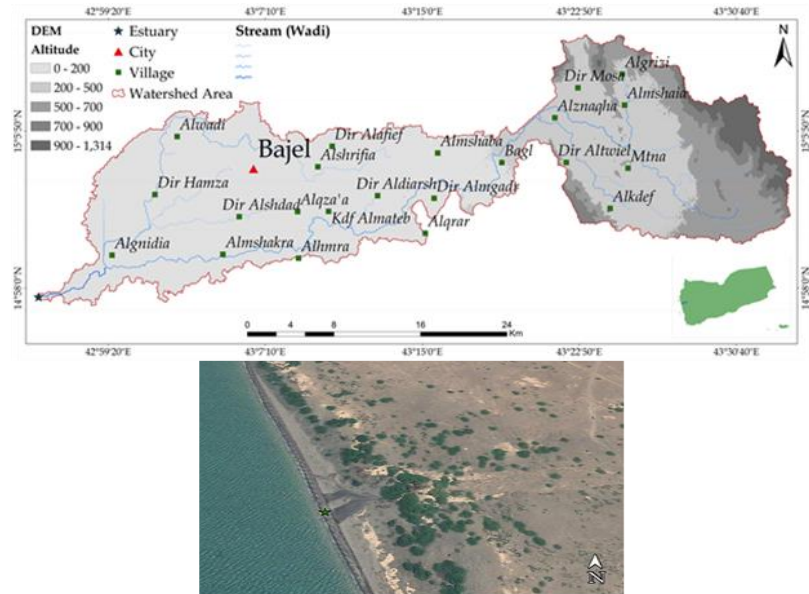


Figure 69. Oro-hydrographic Characteristics of Watershed: Almhara, Alhodidah (top)& The satellite view of Algnidia Estuary (2010) (below).

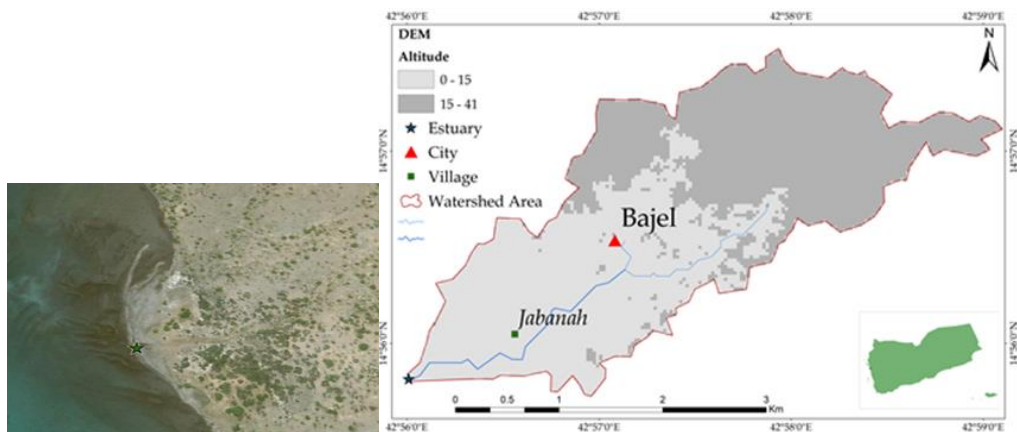
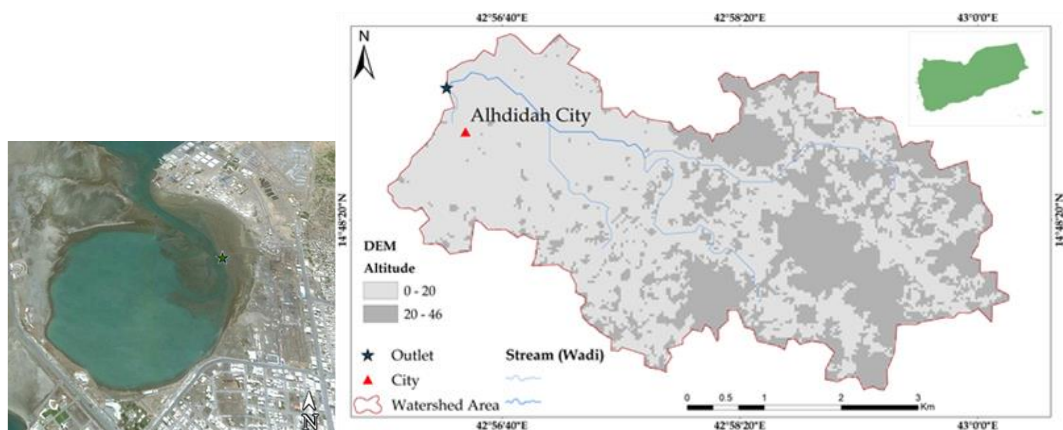
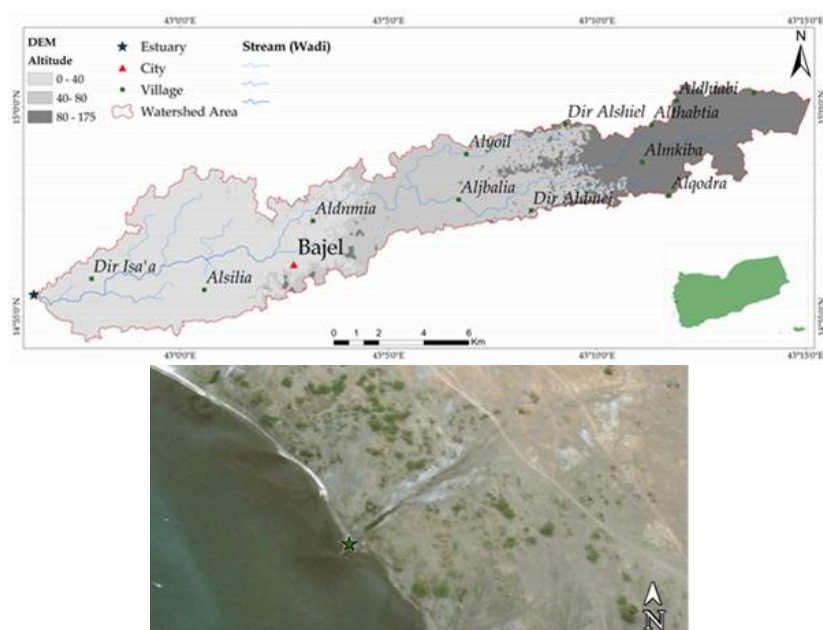


Figure 70. Oro-hydrographic Characteristics of Watershed: Almekter, Alhodidah (right)& The satellite view of Jabanah Estuary (2011) (left).



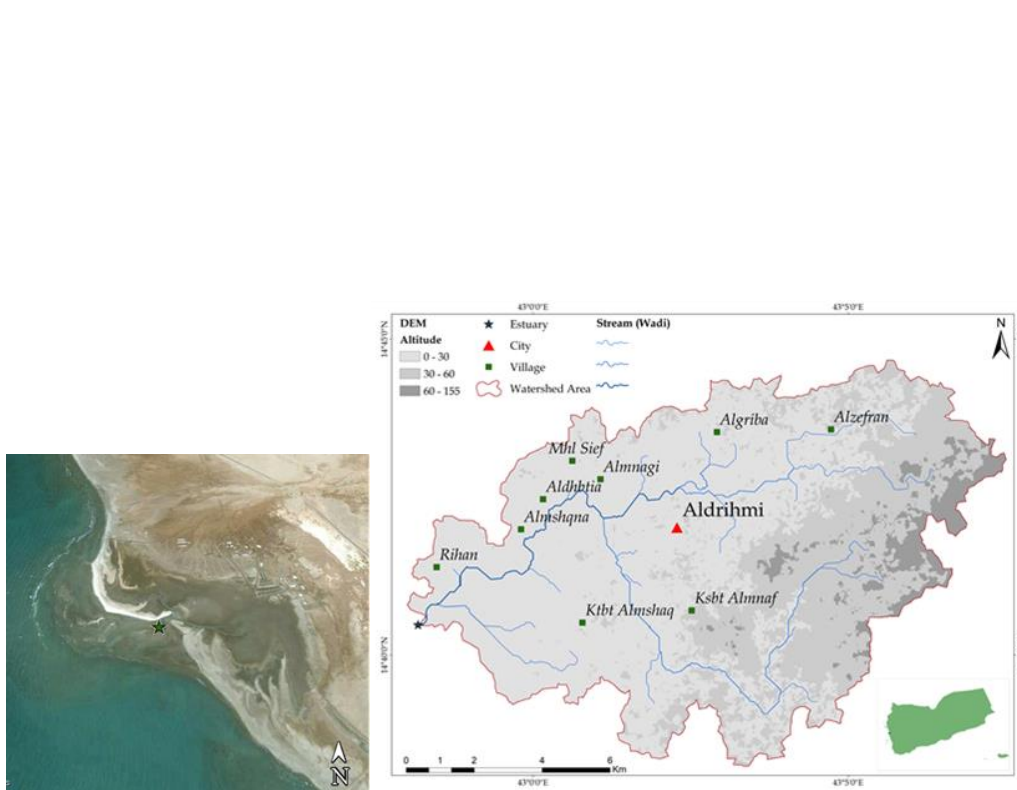


Figure 75. Oro-hydrographic Characteristics of Watershed: Almnaji, Alhodidah (right)& The satellite view of Rihan Estuary (2011) (left).

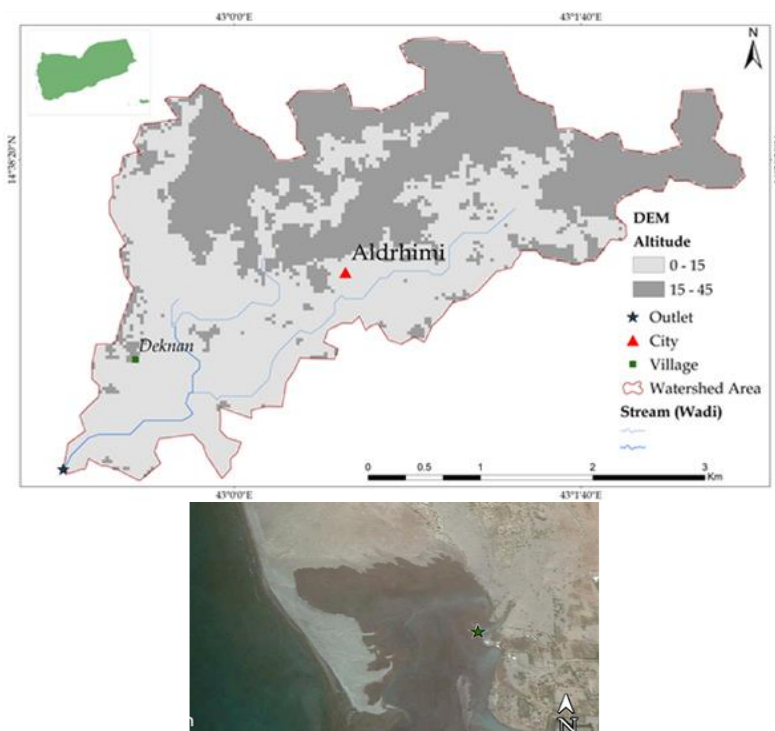


Figure 76. Oro-hydrographic Characteristics of Watershed: Reman, Alhodidah (top)& The satellite view of Dknan Estuary (Lagoon) (2014) (below).

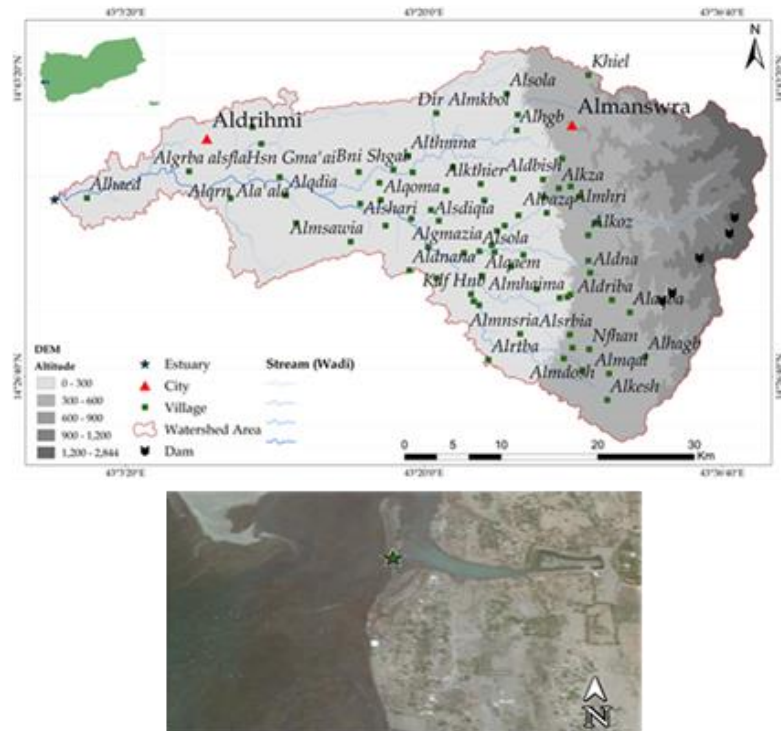


Figure 77. Oro-hydrographic Characteristics of Watershed: Naba, Alhodidah (top)& The satellite view of Alhaed Estuary (Seagrass) (2014) (below).

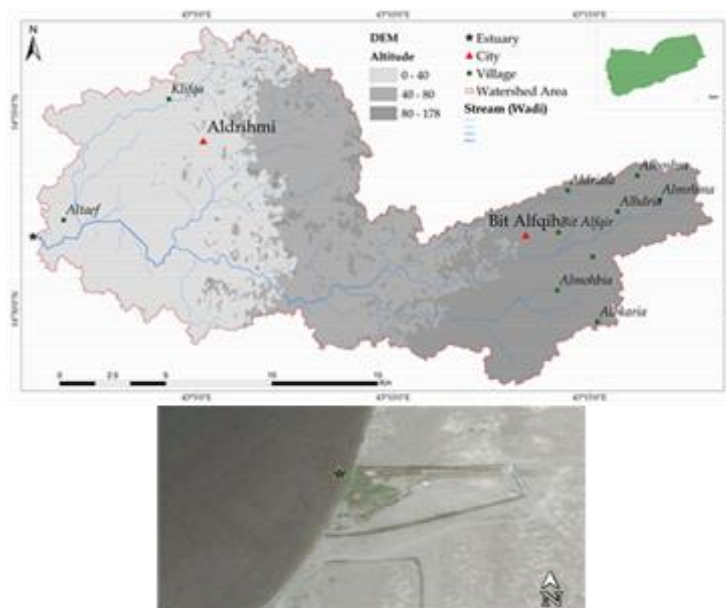


Figure 78. Oro-hydrographic Characteristics of Watershed: Alharabyah, Alhodidah (top)& The satellite view of Altaef Estuary (2014) (below).

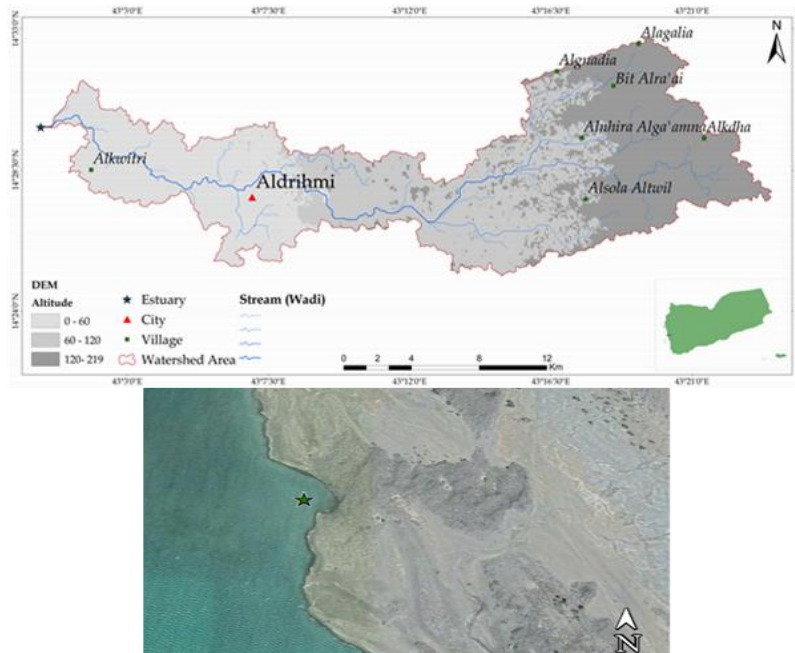


Figure 79. Oro-hydrographic Characteristics of Watershed: Baqeira, Alhodidah (top) & The satellite view of Alkwitri Estuary (2014) (below).



Figure 80. Oro-hydrographic Characteristics of Watershed: Almzahr, Alhodidah (right) & The satellite view of Alkoitri Estuary (Lagoon) (2010) (below).

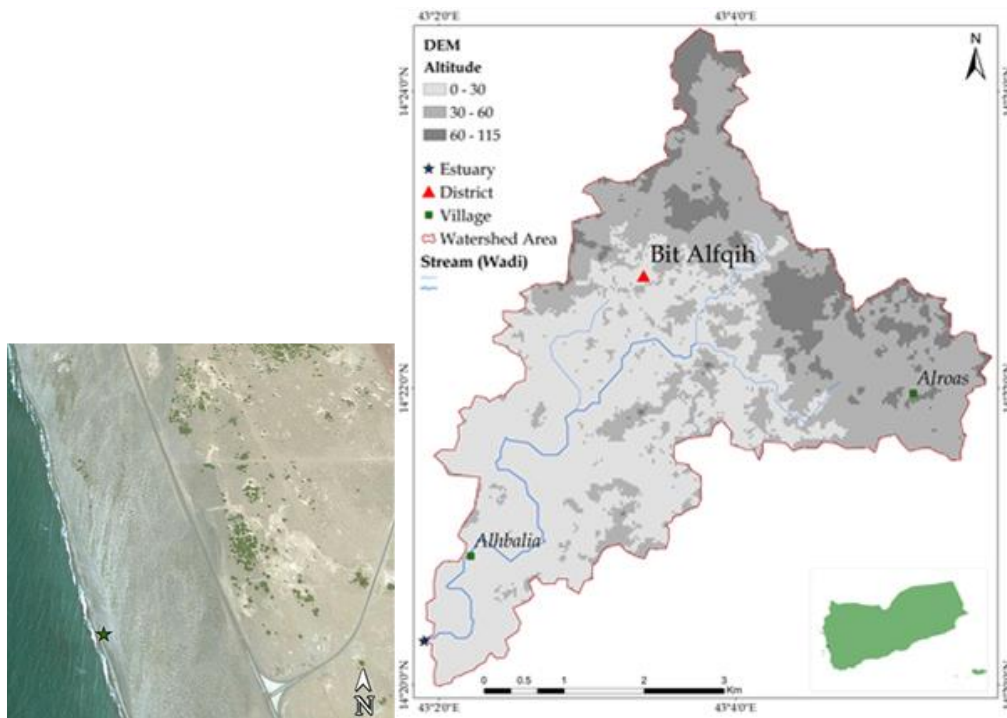


Figure 81. Oro-hydrographic Characteristics of Watershed: Alrwasr, Alhodidah (right)& The satellite view of Alhbali Estuary (2011) (left).

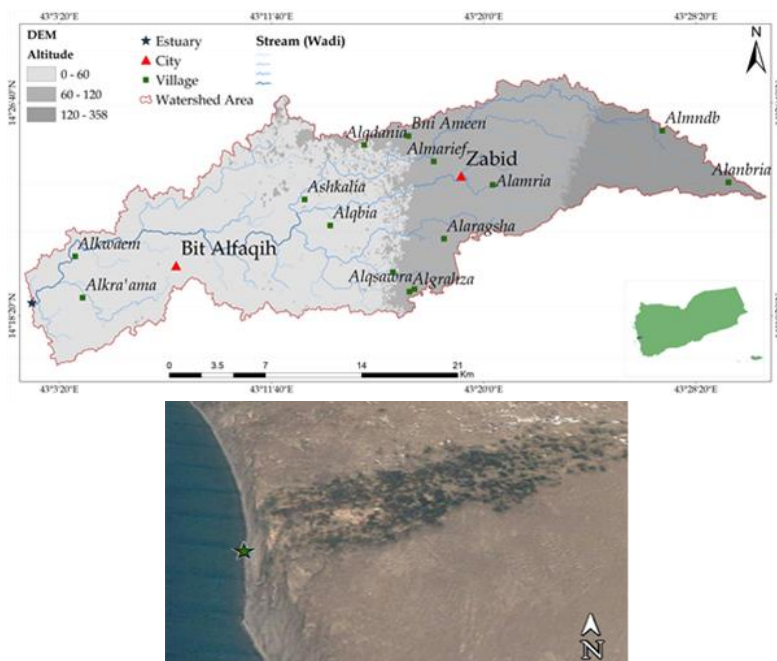


Figure 82. Oro-hydrographic Characteristics of Watershed: Kwaia, Alhodidah (top)& The satellite view of Alkwaem Estuary (2008) (below).

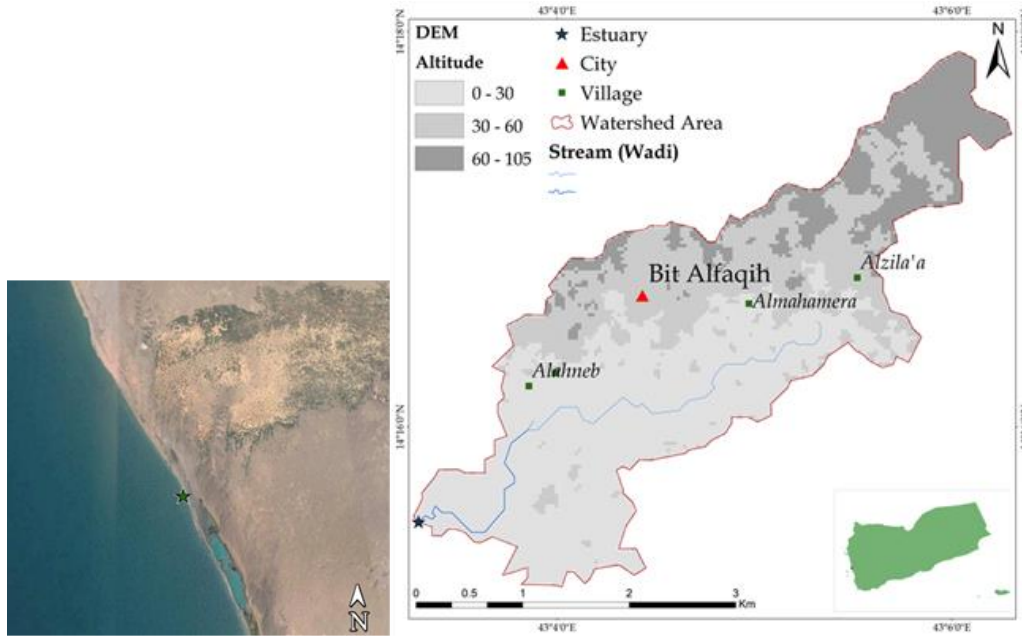


Figure 83. Oro-hydrographic Characteristics of Watershed: Alzilaie, Alhodidah (right)& The satellite view of Alahneb Estuary (Lagoon) (2001) (left).

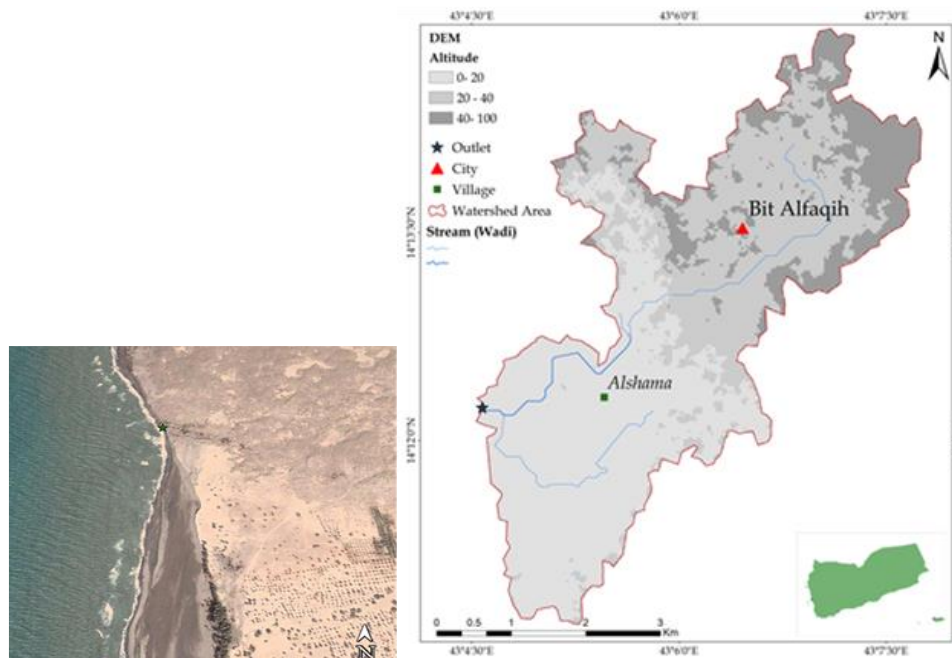


Figure 84. Oro-hydrographic Characteristics of Watershed: Alaqem, Alhodidah (right)& The satellite view of Alshma Estuary (2002) (left).

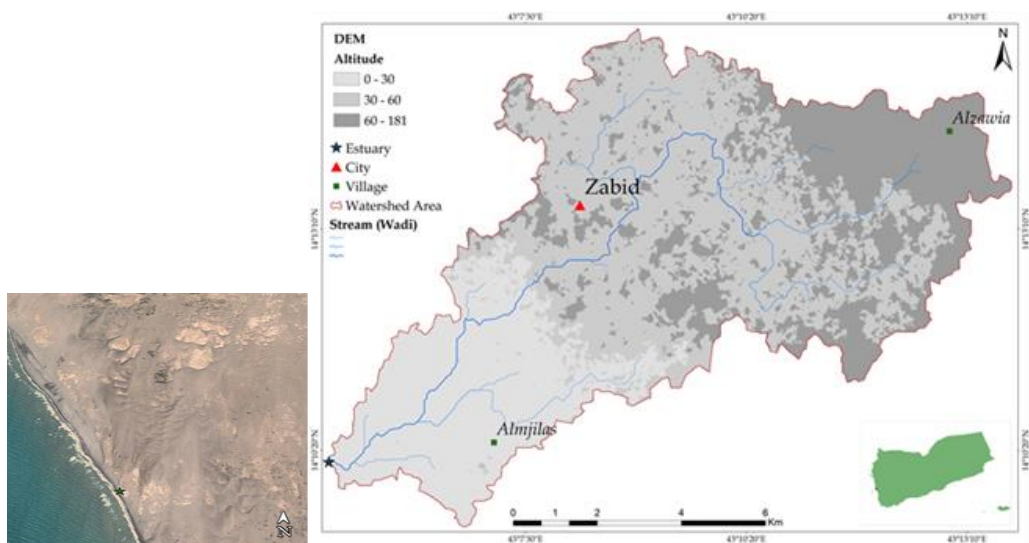


Figure 85. Oro-hydrographic Characteristics of Watershed Albliha; Alhodidah (right) & The satellite view of Almjilas Estuary (2002) (left).

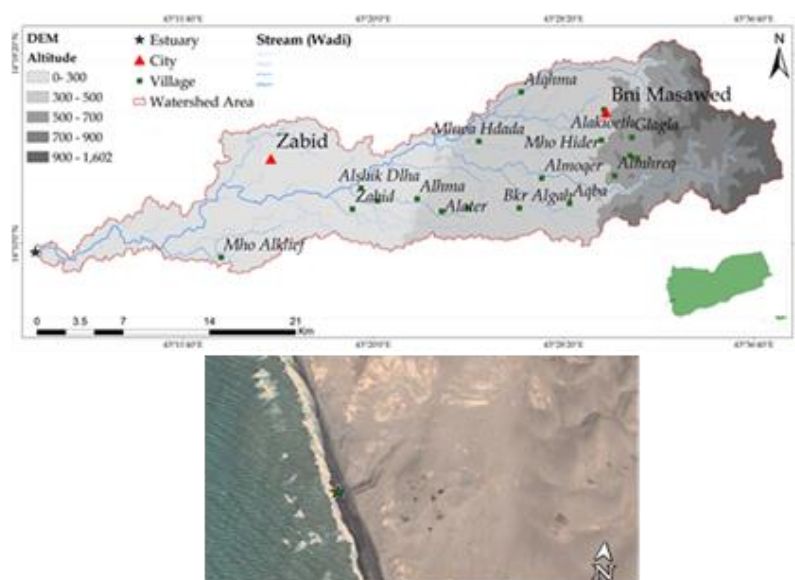


Figure 86. Oro-hydrographic Characteristics of Watershed: Altehita, Alhodidah (top) & The satellite view of Mhw Alklief Estuary (2002) (below).

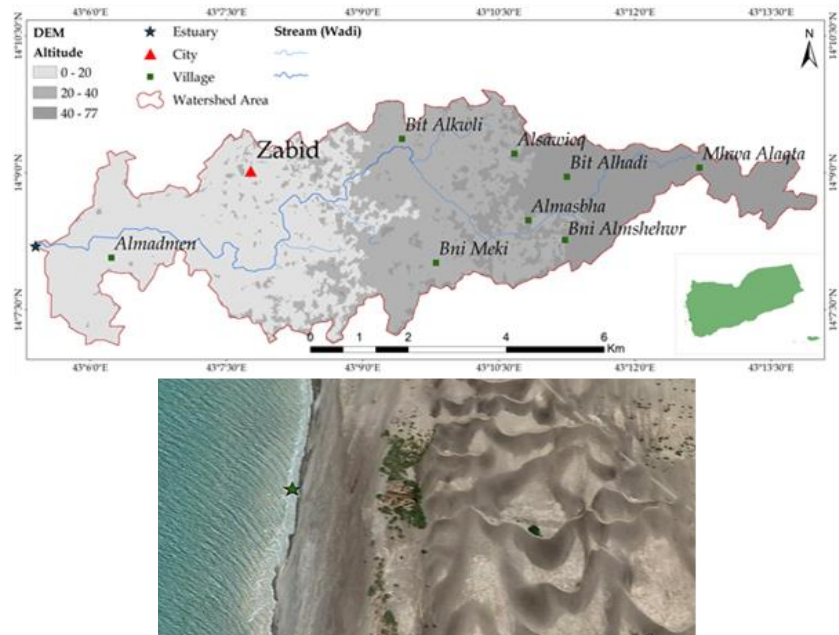


Figure 87. Oro-hydrographic Characteristics of Watershed: Alkwli, Alhodidah (top) & The satellite view of Almadmen Estuary (2018) (below).

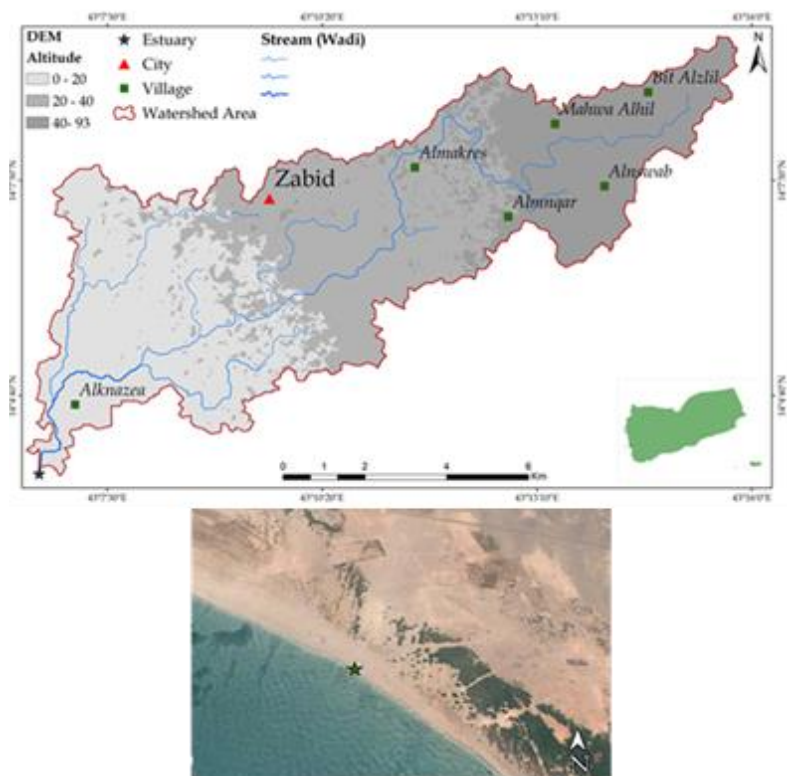


Figure 88. Oro-hydrographic Characteristics of Watershed: Almshwer, Alhodidah (top) & The satellite view of Alknazea Estuary (2009) (below).

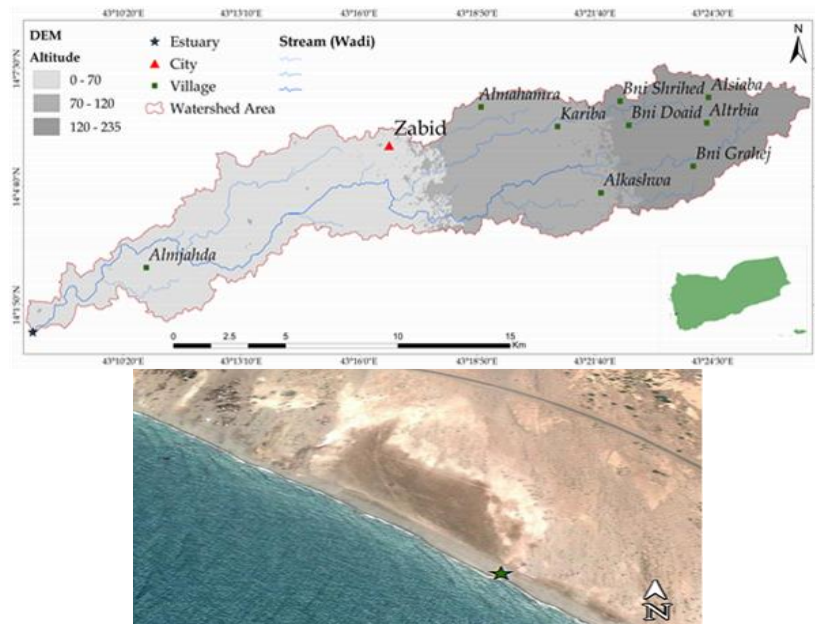


Figure 89. Oro-hydrographic Characteristics of Watershed: Almtina, Alhodidah (top) & The satellite view of Almjahda Estuary (2009) (below).

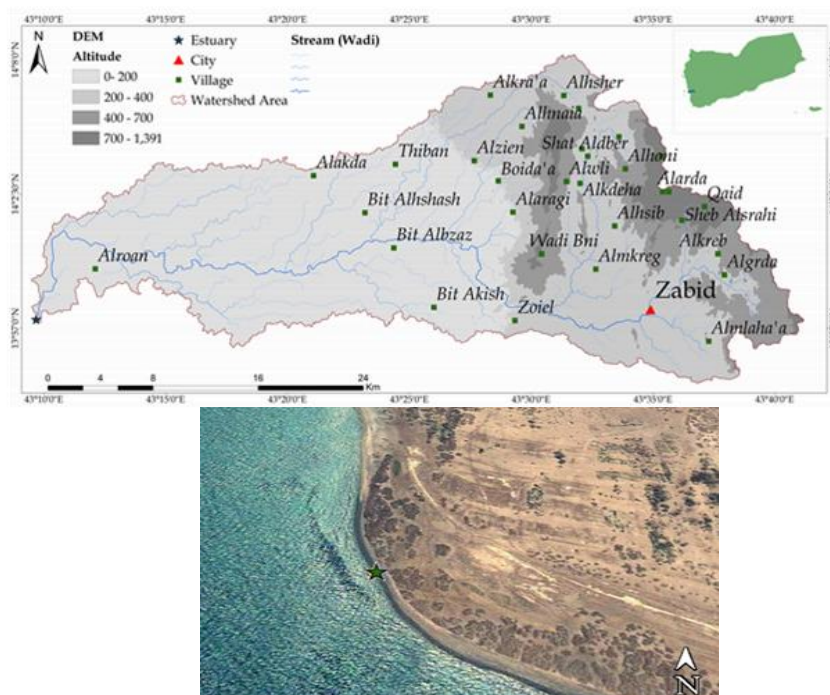


Figure 90. Oro-hydrographic Characteristics of Watershed: Alfwakeh, Alhodidah (top) & The satellite view of Alroan Estuary (2009) (below).

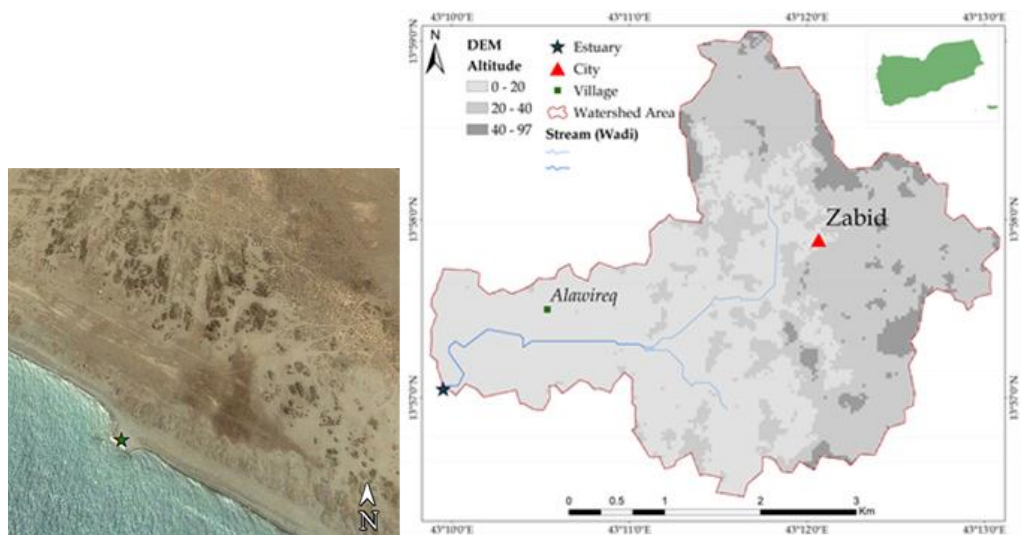


Figure 91. Oro-hydrographic Characteristics of Watershed: Albarwdi, Alhodidah (right)& The satellite view of Alawireq Estuary (2009) (left).

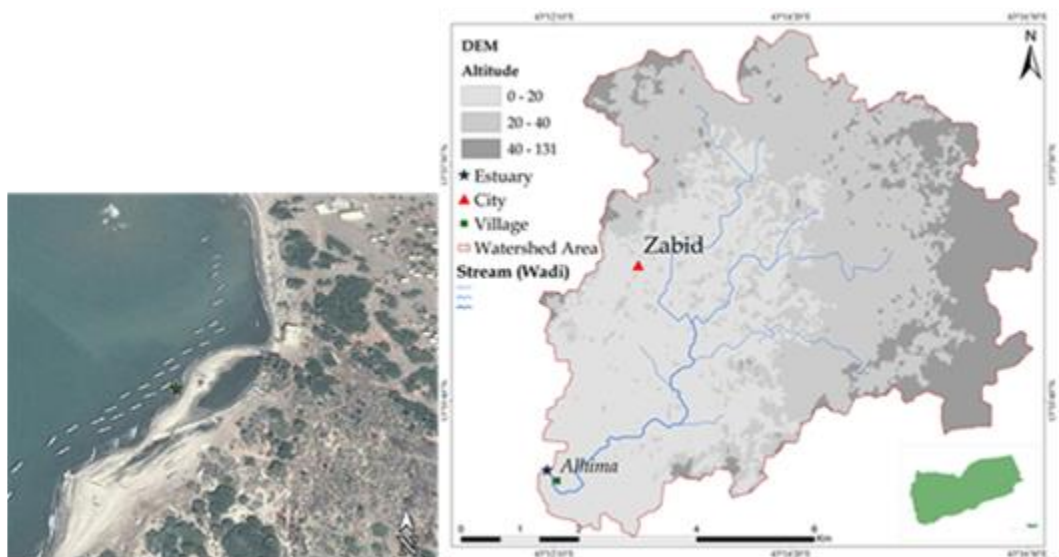


Figure 92. Oro-hydrographic Characteristics of Watershed: Albajeri, Alhodidah (right)& The satellite view of Alhima Estuary (Lagoon) (2013) (left).

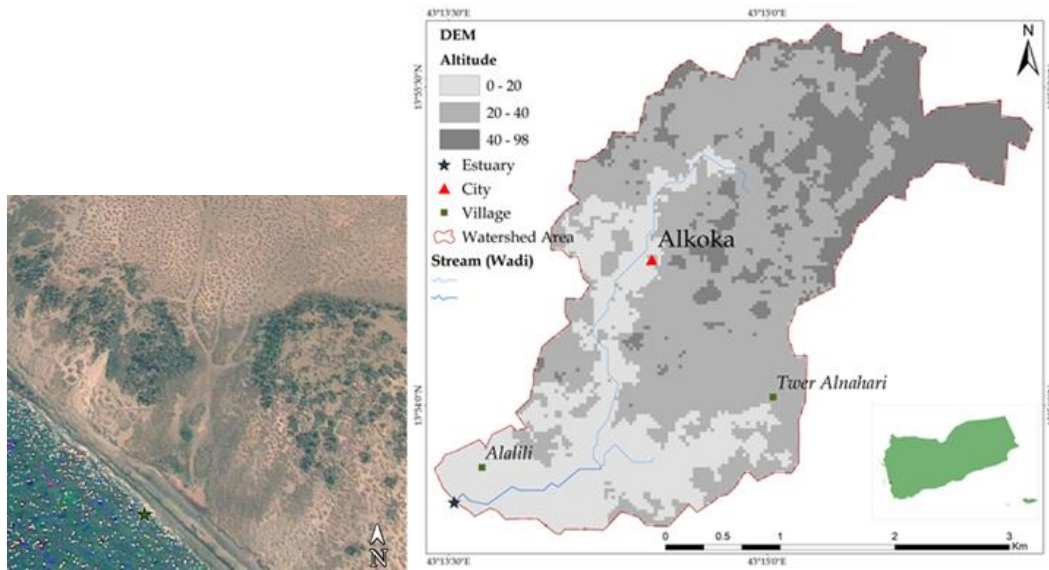


Figure 93. Oro-hydrographic Characteristics of Watershed: Frtwet, Alhodidah (right) & The satellite view of Alalili Estuary (2009) (left).

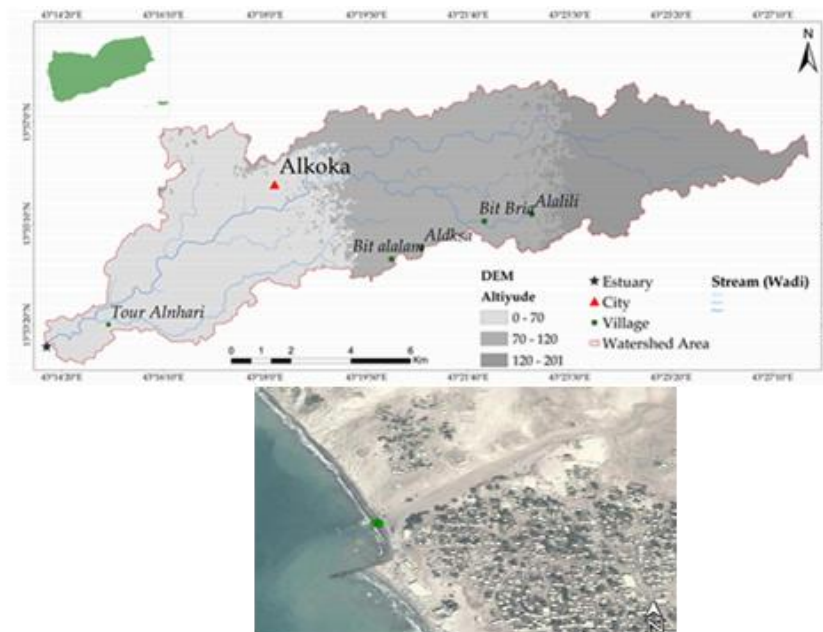


Figure 94. Oro-hydrographic Characteristics of Watershed: Almasla, Alhodidah (top) & The satellite view of Tour Alnhari Estuary (2015) (below).

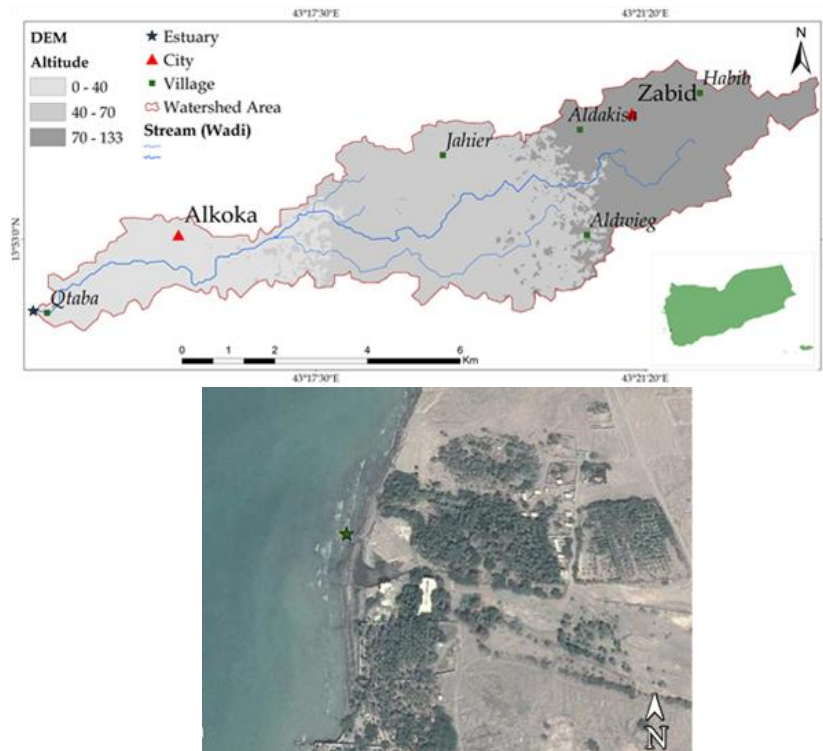


Figure 95. Oro-hydrographic Characteristics of Watershed: Jahber, Alhodidah (top)& The satellite view of Qtaba Estuary (2013) (below).

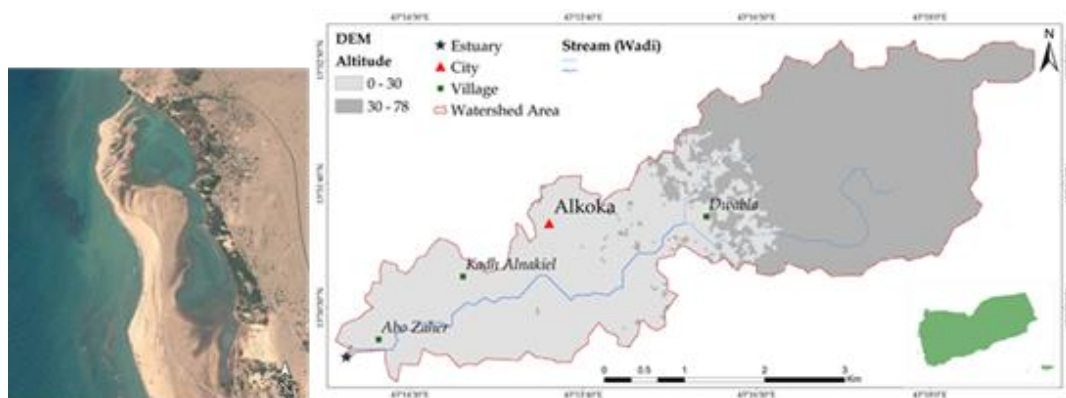


Figure 96. Oro-hydrographic Characteristics of Watershed: Alkraba, Alhodidah (right)& The satellite view of Abo Zahr Estuary (Lagoon) (2009) (left).

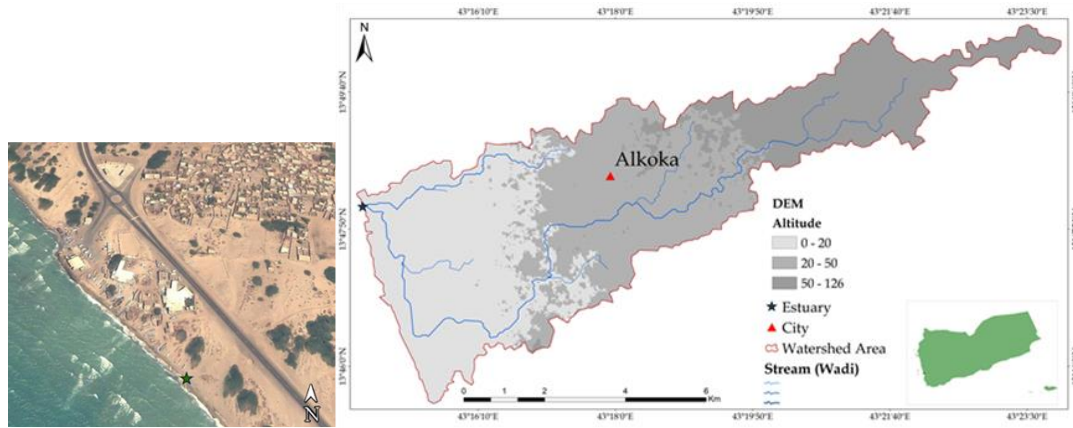


Figure 97. Oro-hydrographic Characteristics of Watershed: Alkokah, Alhodidah (right) & The satellite view of Almahrek Estuary (2009) (left).

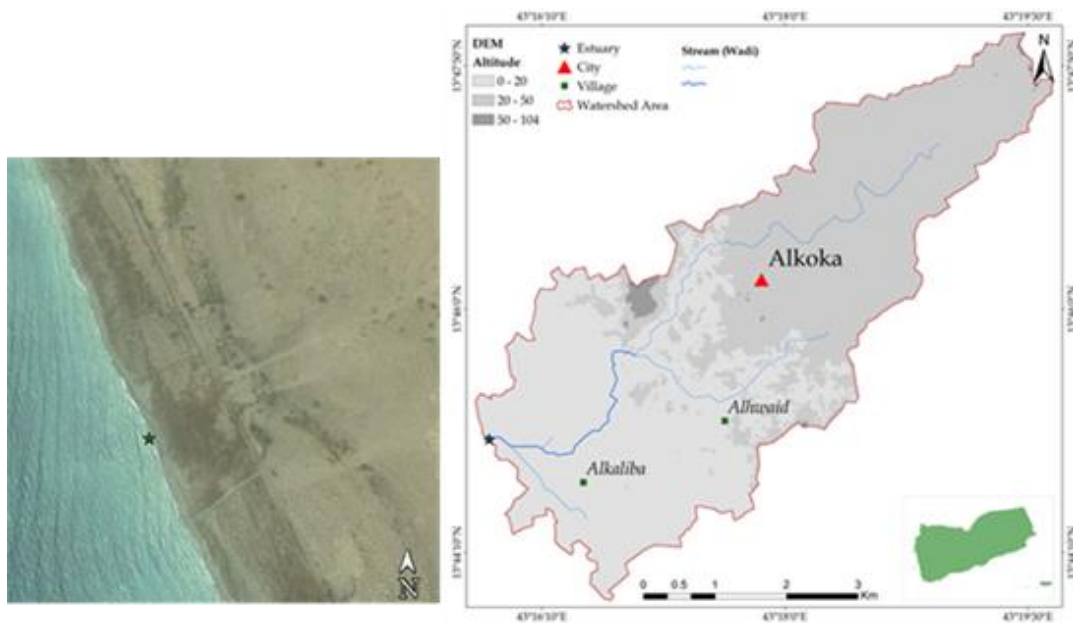


Figure 98. Oro-hydrographic Characteristics of Watershed: Alamesi, Alhodidah (right) & The satellite view of Alkaliba Estuary (2013) (left).

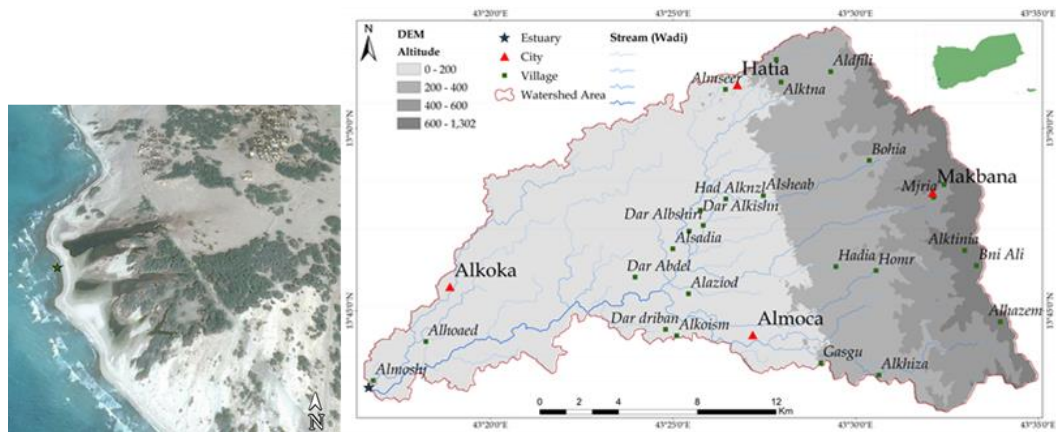


Figure 99. Oro-hydrographic Characteristics of Watershed: Erfan, Alhodidah (right)& The satellite view of Almoshj Estuary (2016) (left).

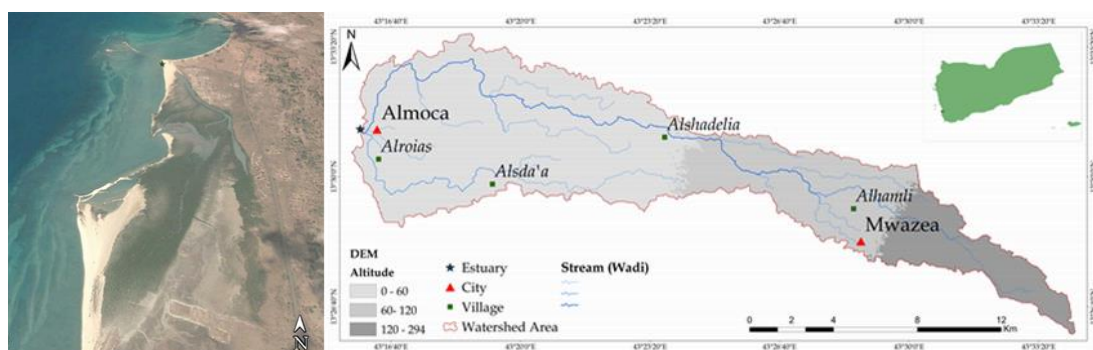


Figure 100. Oro-hydrographic Characteristics of Watershed: Rasyan, Ta'iz (right)& The satellite view of Alroias Estuary (Lagoon) (2010) (left).

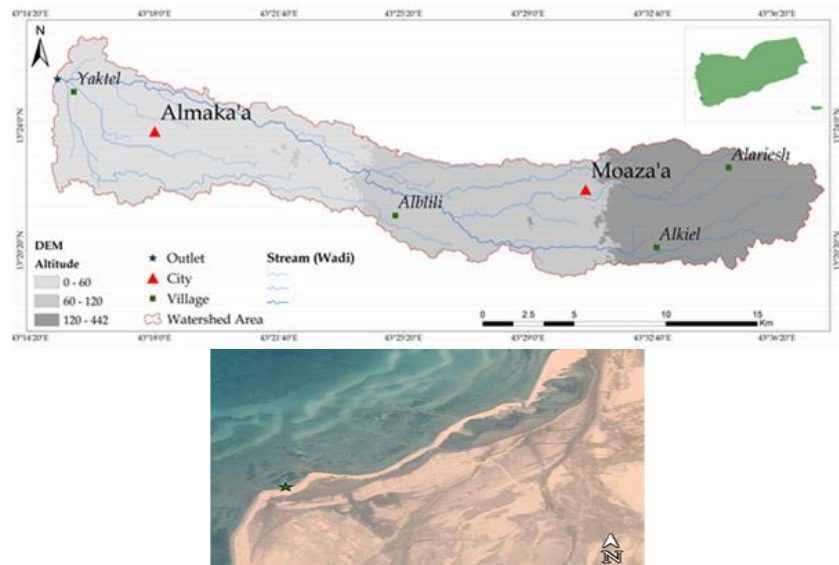


Figure 101. Oro-hydrographic Characteristics of Watershed: Albleli, Ta'iz (top) & The satellite view of Yaktel Estuary (Lagoon) (2004) (below).

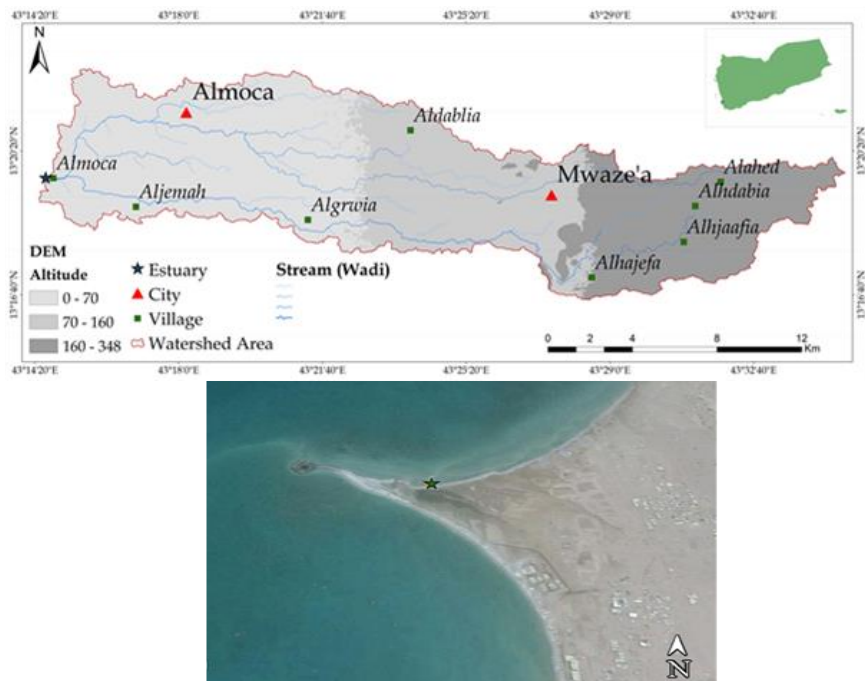


Figure 102. Oro-hydrographic Characteristics of Watershed: Almjash, Ta'iz (top) & The satellite view of Almoca Estuary (2017) (below).

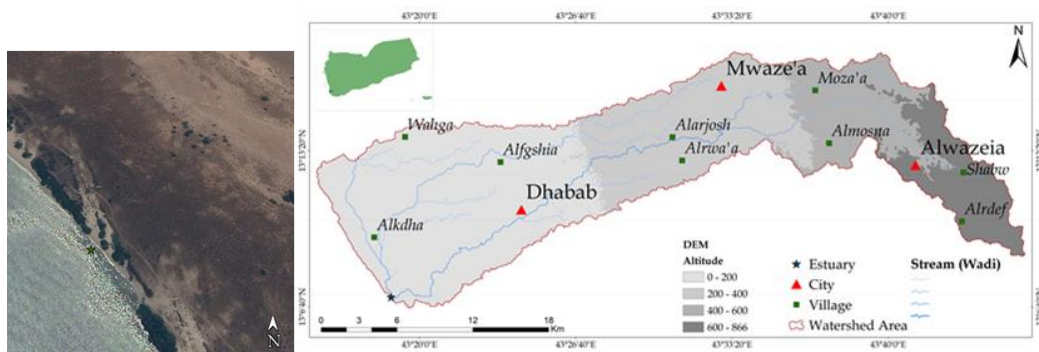


Figure 103. Oro-hydrographic Characteristics of Watershed: Alrwa'a, Ta'iz (right)& The satellite view of Alkdha Estuary (2019) (left).

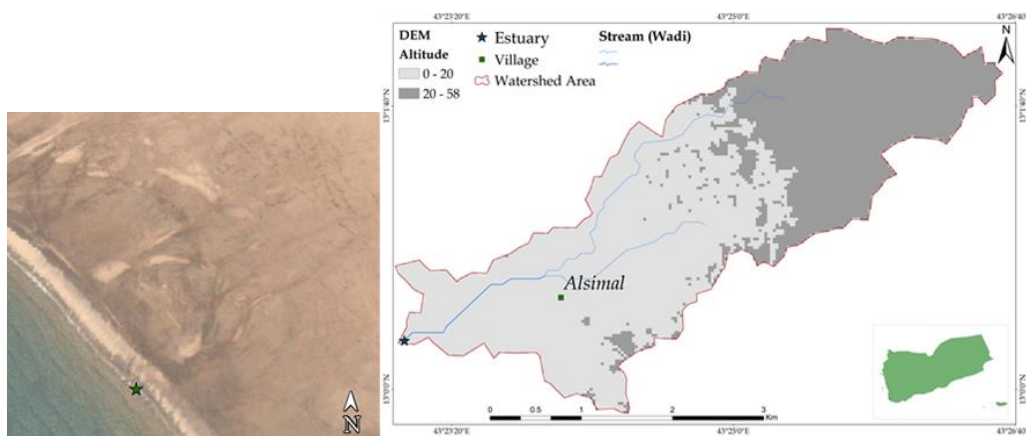


Figure 104. Oro-hydrographic Characteristics of Watershed: Alsnma, Ta'iz (right)& The satellite view of Alsimal Estuary (2005) (left).

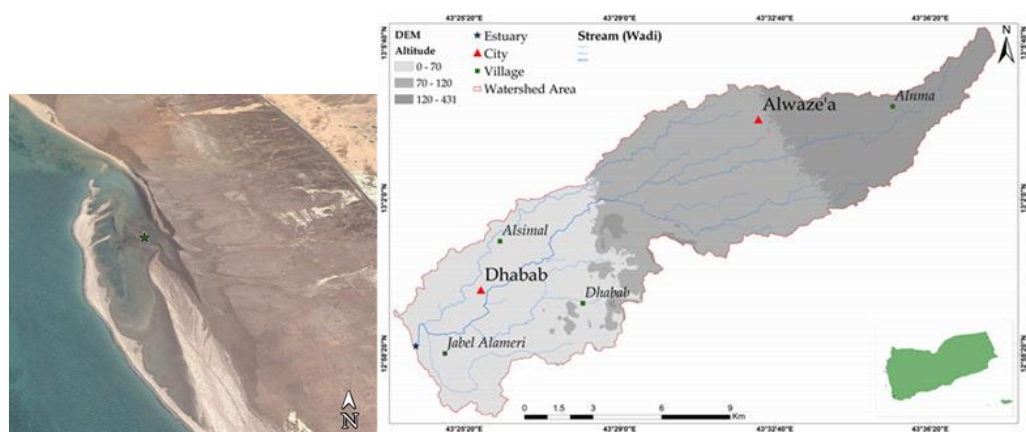


Figure 105. Oro-hydrographic Characteristics of Watershed: Hinishia, Ta'iz (right)& The satellite view of Jabel Alameri Estuary (Lagoon) (2010) (left).

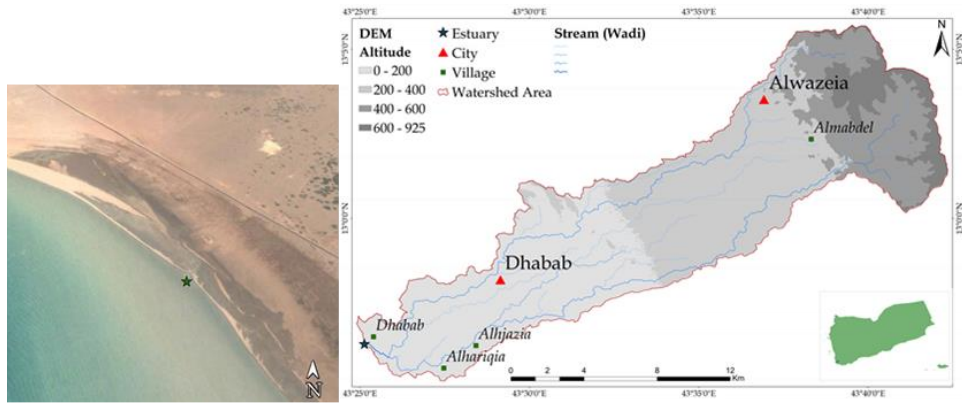


Figure 106. Oro-hydrographic Characteristics of Watershed: Almbdel, Ta'iz (right) & The satellite view of Dhabab Estuary (Lagoon) (2005) (left).

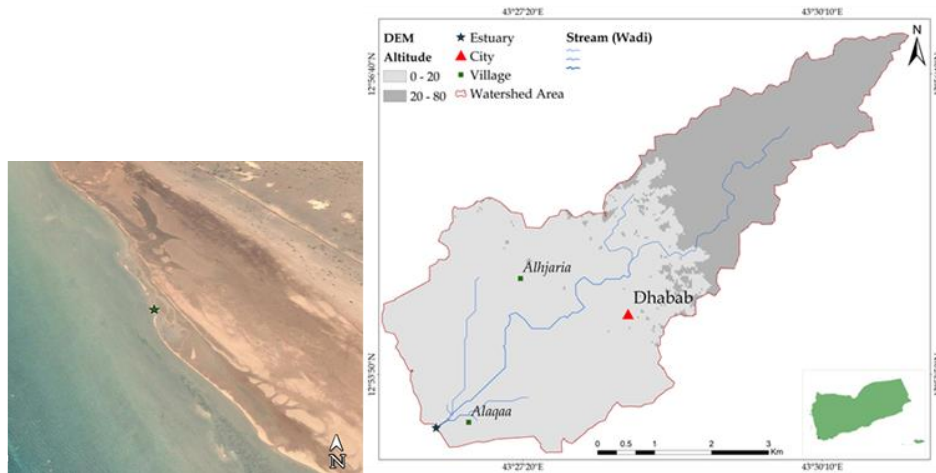


Figure 107. Oro-hydrographic Characteristics of Watershed: Alhjarja, Ta'iz (right) & The satellite view of Alaqaa Estuary (Lagoon) (2005) (left).

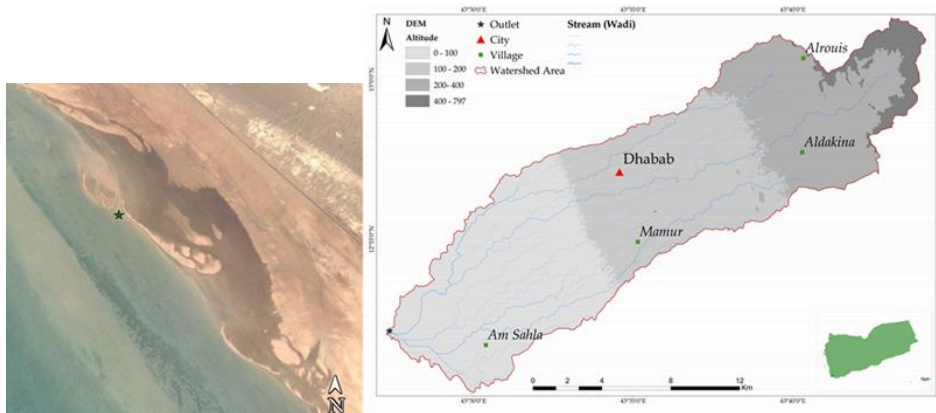


Figure 108. Oro-hydrographic Characteristics of Watershed: Threk, Ta'iz (right) & The satellite view of Am Sahela Estuary (Lagoon) (2010) (left).

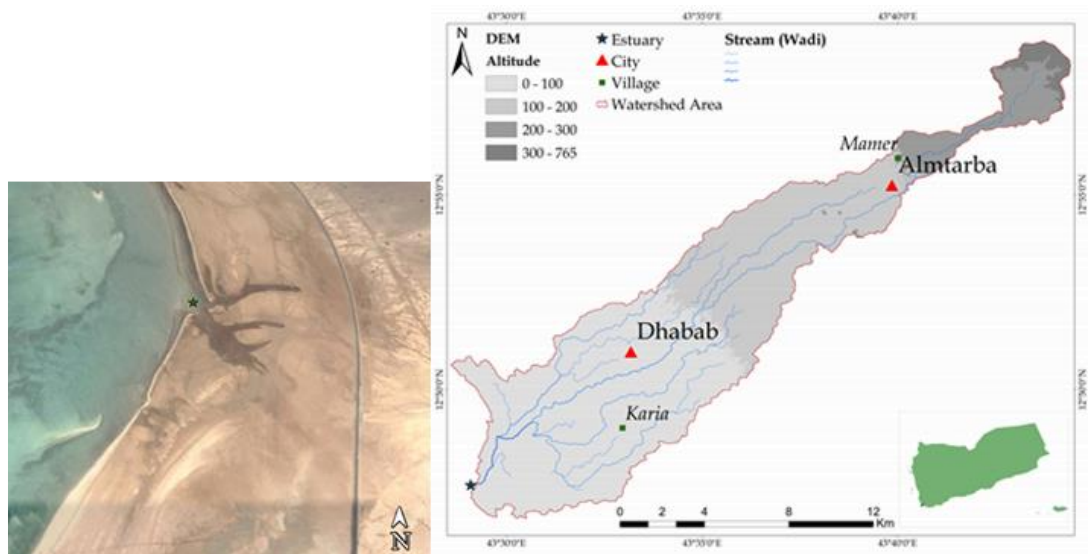


Figure 109. Oro-hydrographic Characteristics of Watershed: Alkdamia, Ta'iz (right)& The satellite view of Karia Estuary (2009) (left).

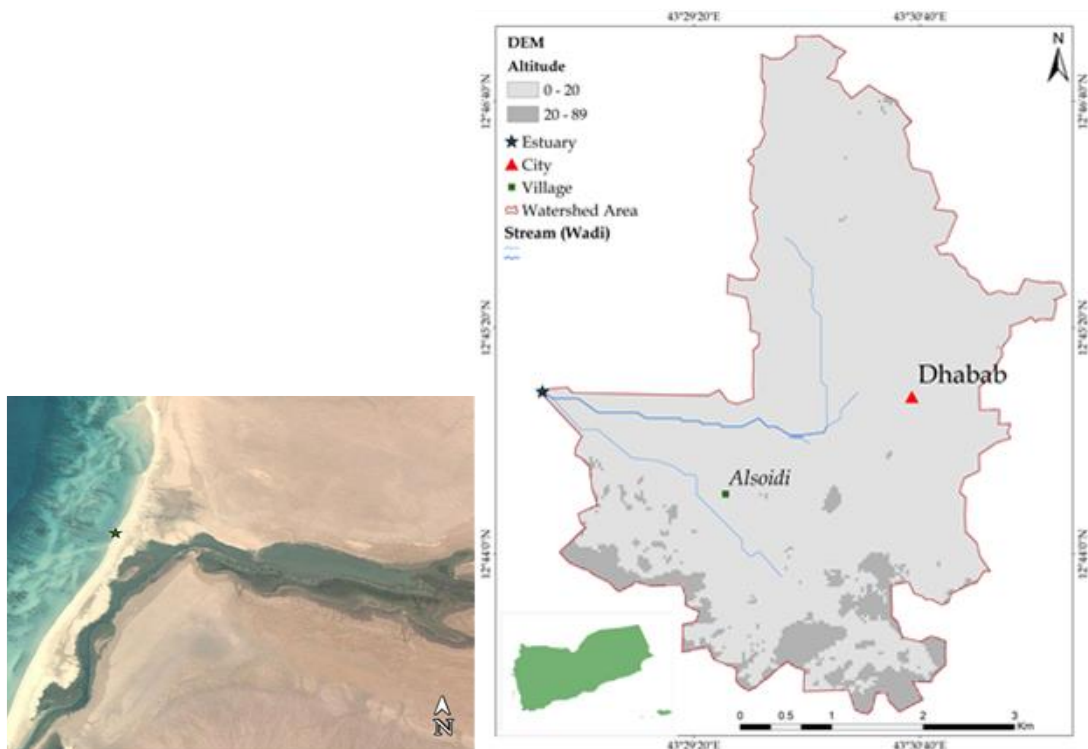


Figure 110. Oro-hydrographic Characteristics of Watershed: Almtrh, Ta'iz (right)& The satellite view of Alsoidi Estuary (2005) (left).

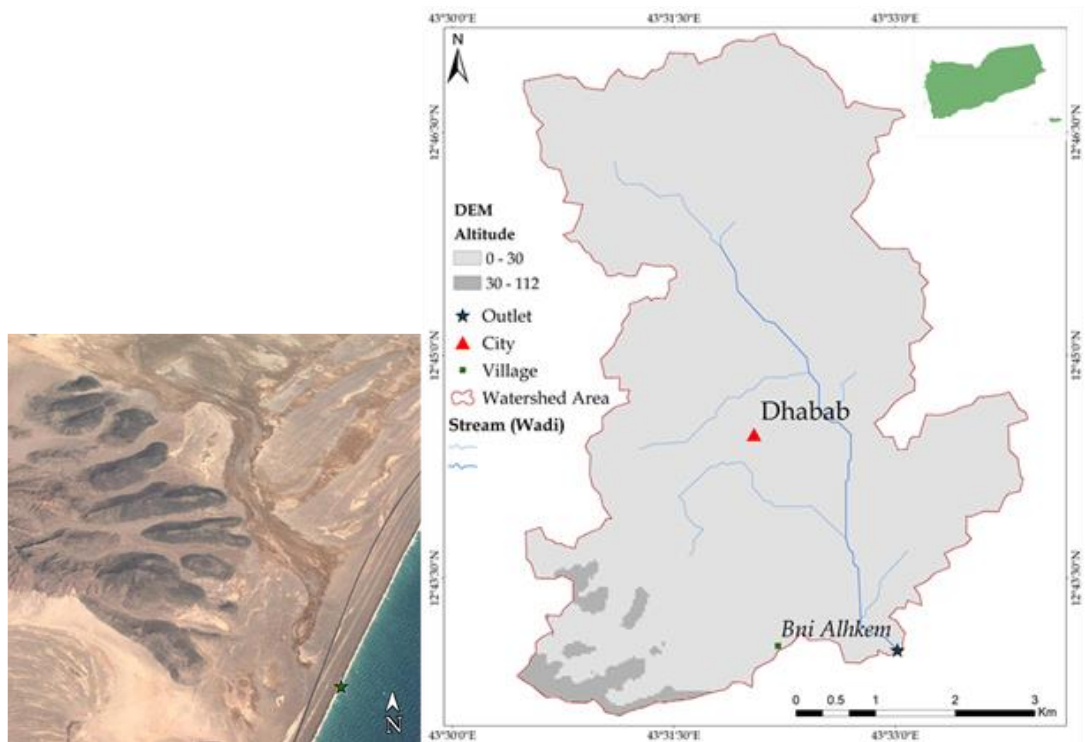


Figure 111. Oro-hydrographic Characteristics of Watershed: Triha, Taiz (right)& The satellite view of Bni Alhkem Estuary (2009) (left).

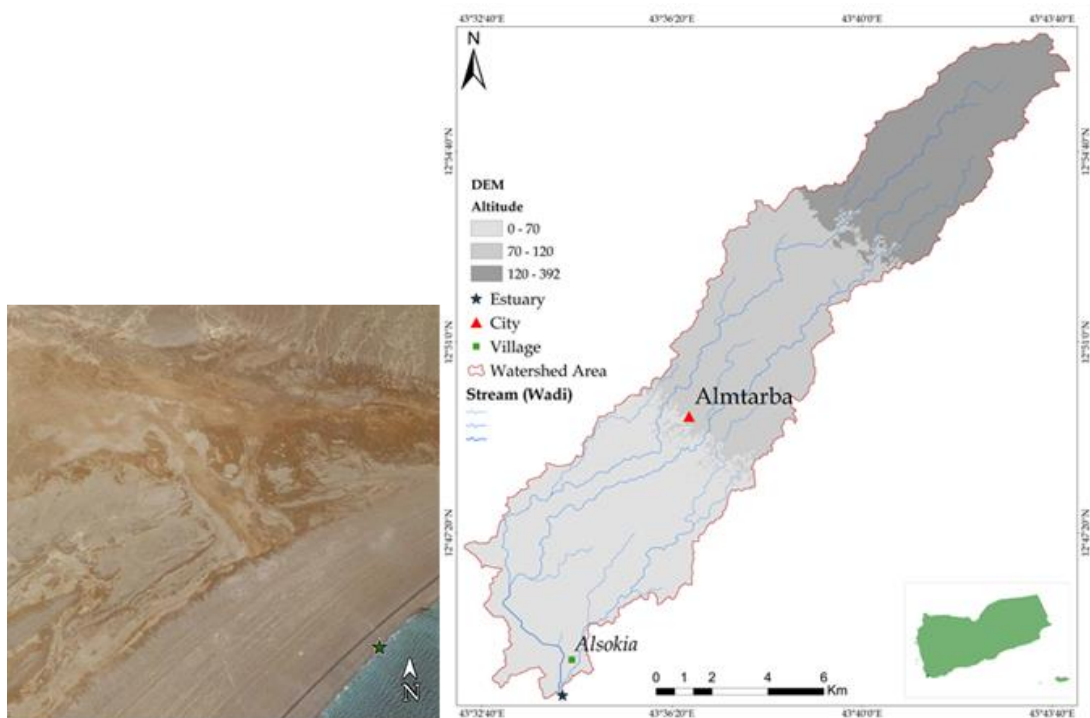


Figure 112. Oro-hydrographic Characteristics of Watershed: Alhgigia, Lahej (right)& The satellite view of Alsokia Estuary (2016) (left).

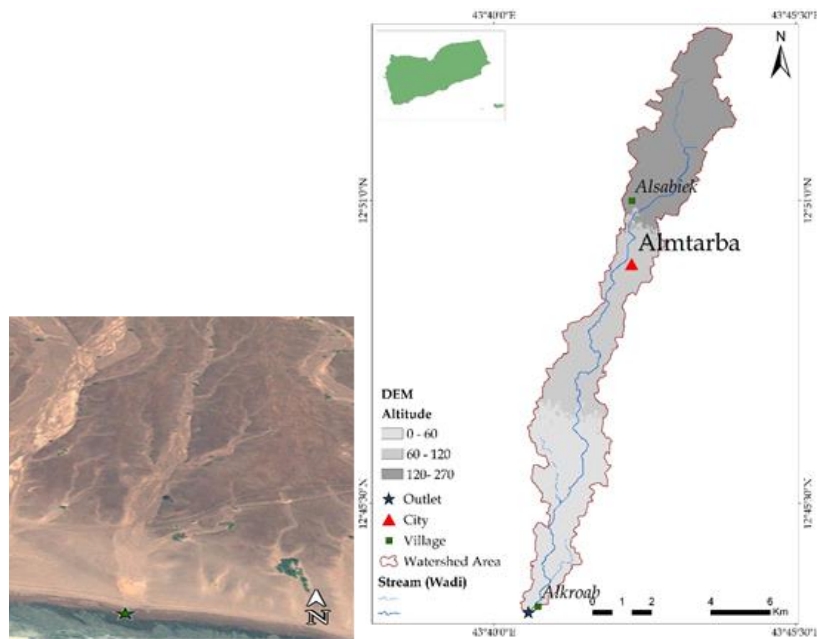


Figure 113. Oro-hydrographic Characteristics of Watershed: Alnaiba, Lahej (right) & The satellite view of Alkroab Estuary (2009) (left).

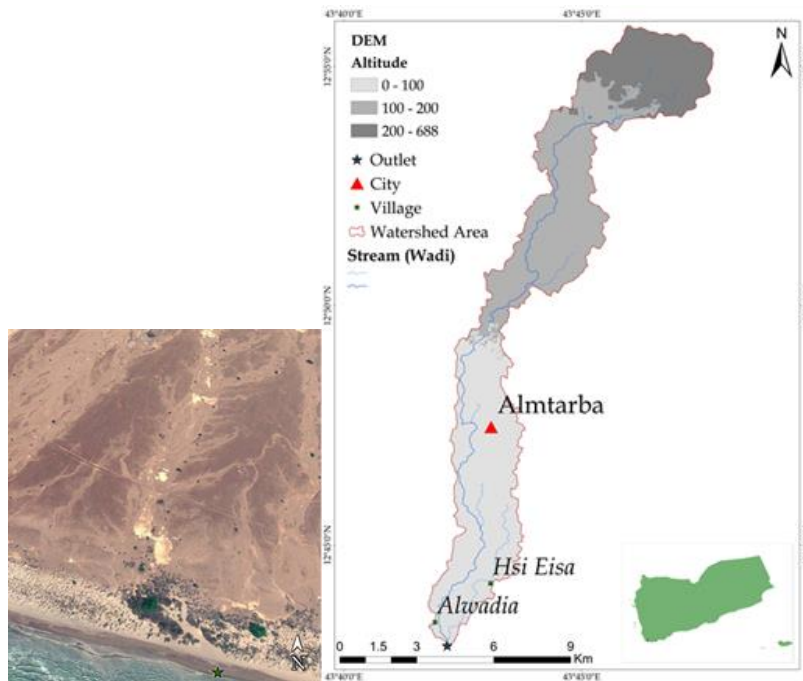


Figure 114. Oro-hydrographic Characteristics of Watershed: Alhrim, Lahej (right) & The satellite view of Alwadia Estuary (2009) (left).

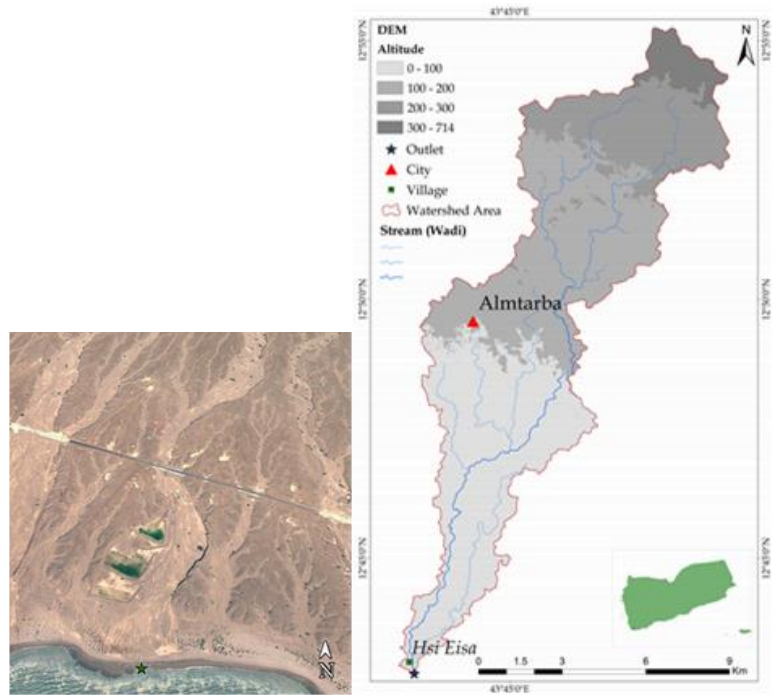


Figure 115. Oro-hydrographic Characteristics of Watershed: Algrika, Lahej (right)& The satellite view of His Eisa Estuary (2009) (left).

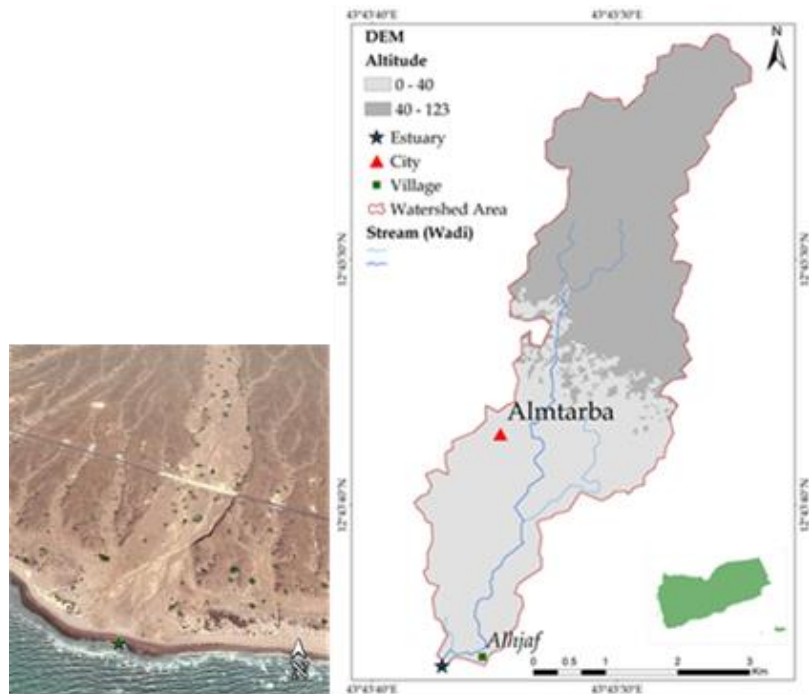


Figure 116. Oro-hydrographic Characteristics of Watershed: Almdhma, Lahej (right)& The satellite view of Alhjaf Estuary (2009) (left).

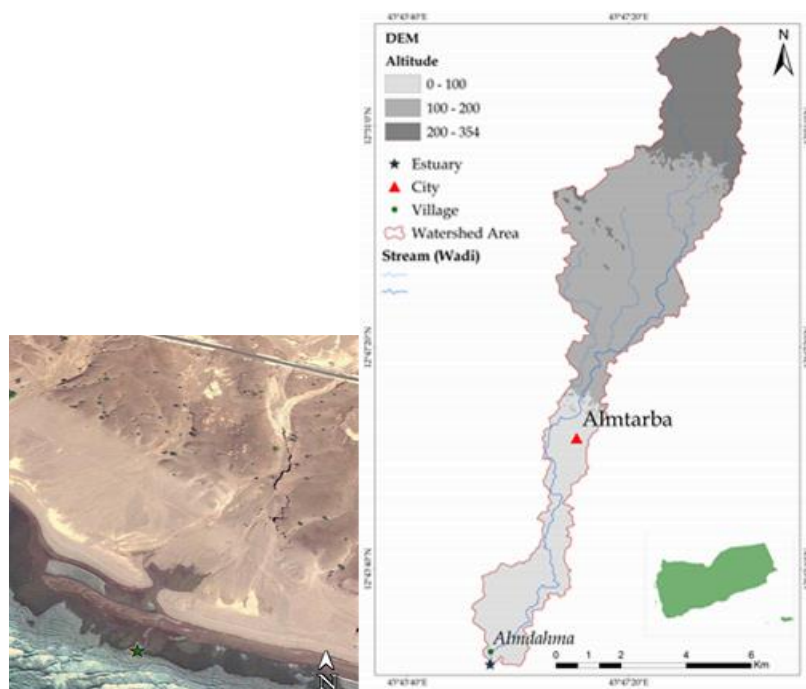


Figure 117. Oro-hydrographic Characteristics of Watershed: Alarah, Lahej (right)& The satellite view of Almdahma Estuary (2009) (left).

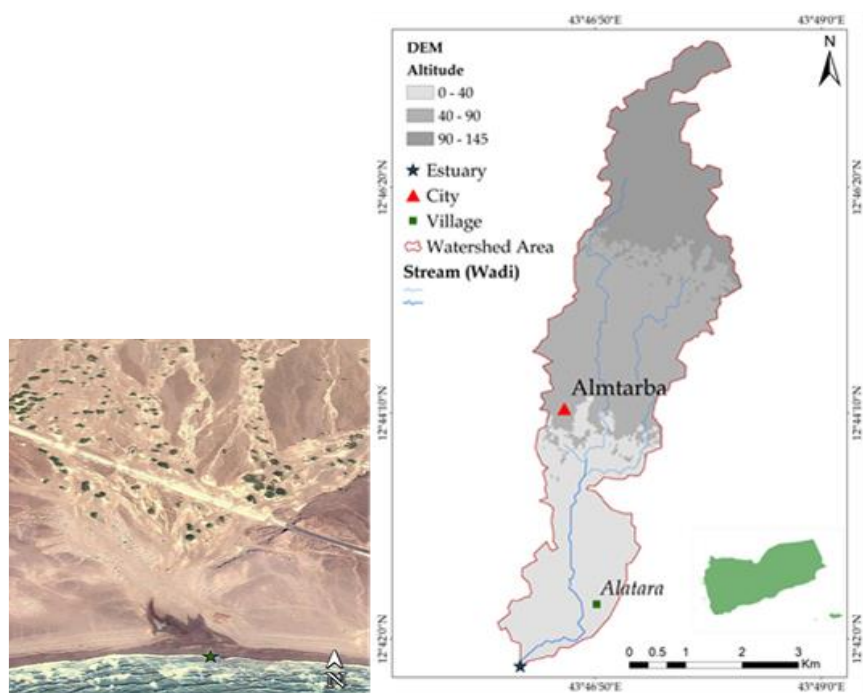


Figure 118. Oro-hydrographic Characteristics of Watershed: Amqsem, Lahej (right)& The satellite view of Alatar Estuary (2009) (left).

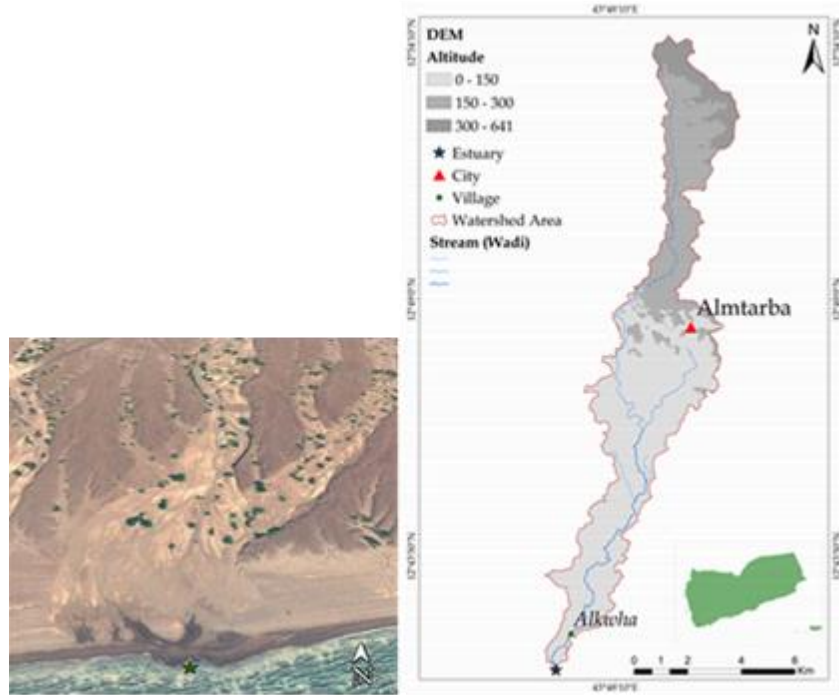


Figure 119. Oro-hydrographic Characteristics of Watershed: Alatarm, Lahej (right)& The satellite view of Alkwha Estuary (2009) (left).

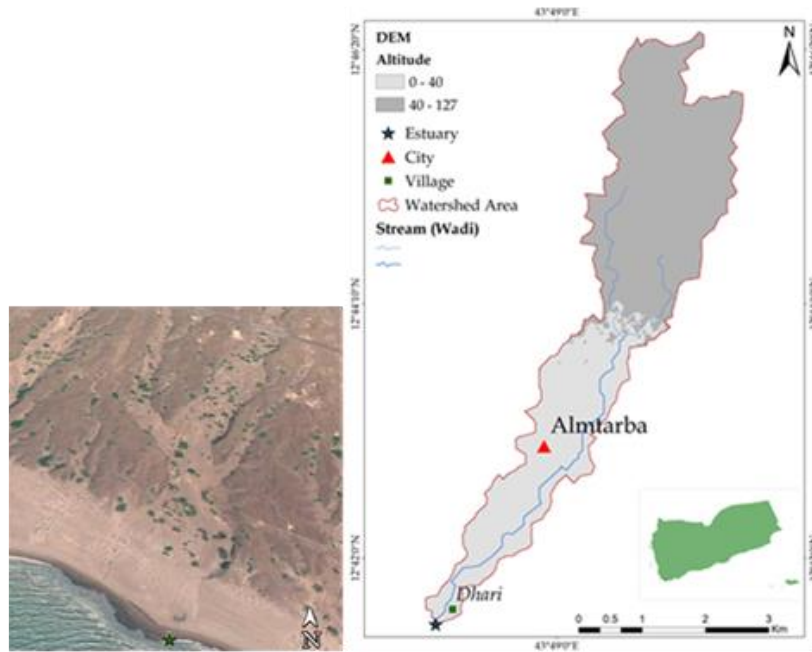


Figure 120. Oro-hydrographic Characteristics of Watershed: Alkwha, Lahej (right)& The satellite view of Dhari Estuary (2009) (left).

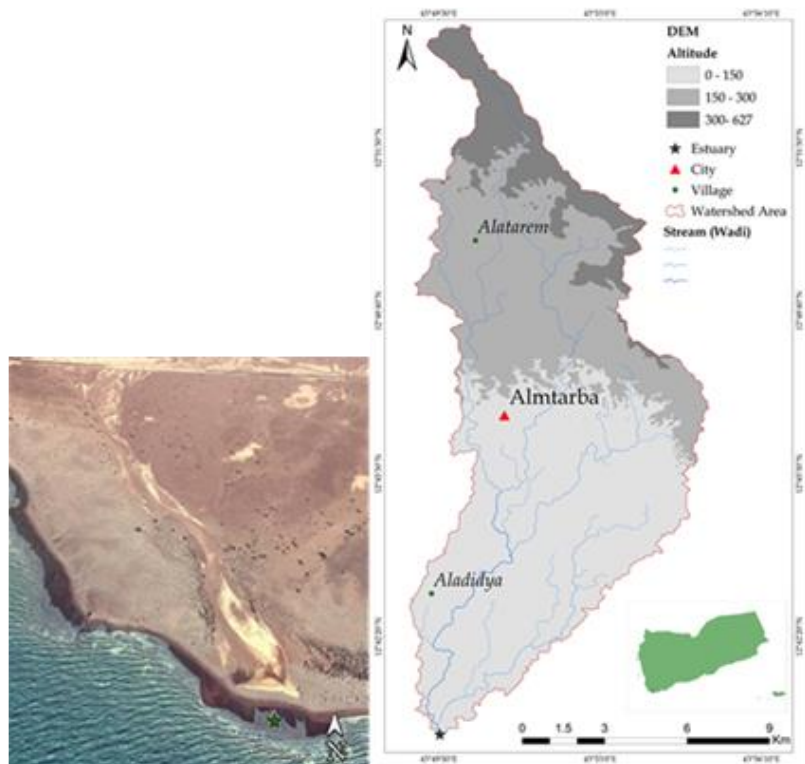


Figure 121. Oro-hydrographic Characteristics of Watershed: Almkwha, Lahej (right) & The satellite view of Aladidia Estuary (2009) (left).

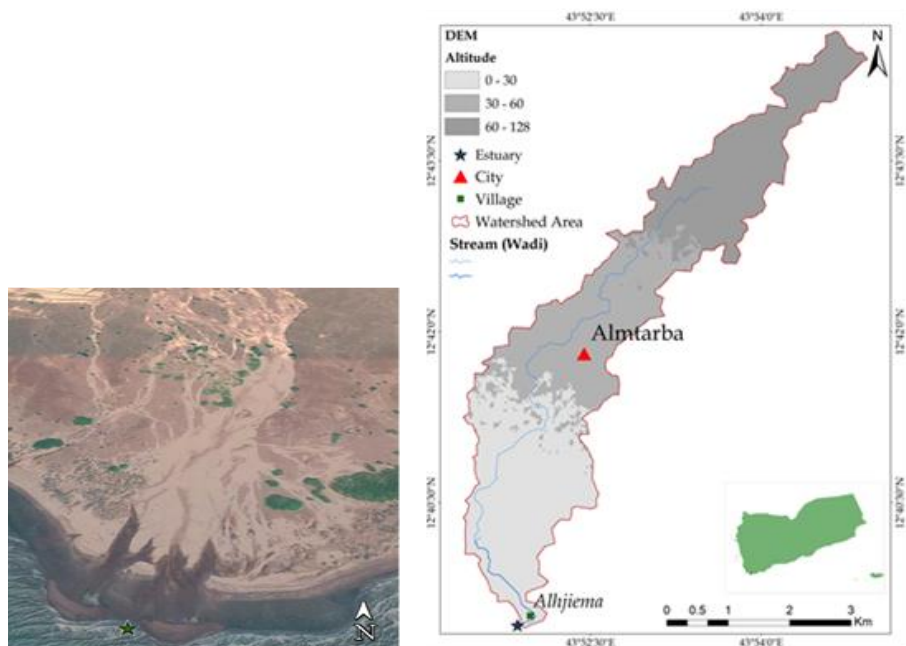


Figure 122. Oro-hydrographic Characteristics of Watershed: Aladdia, Lahej (right) & The satellite view of Alhjiema Estuary (2009) (left).

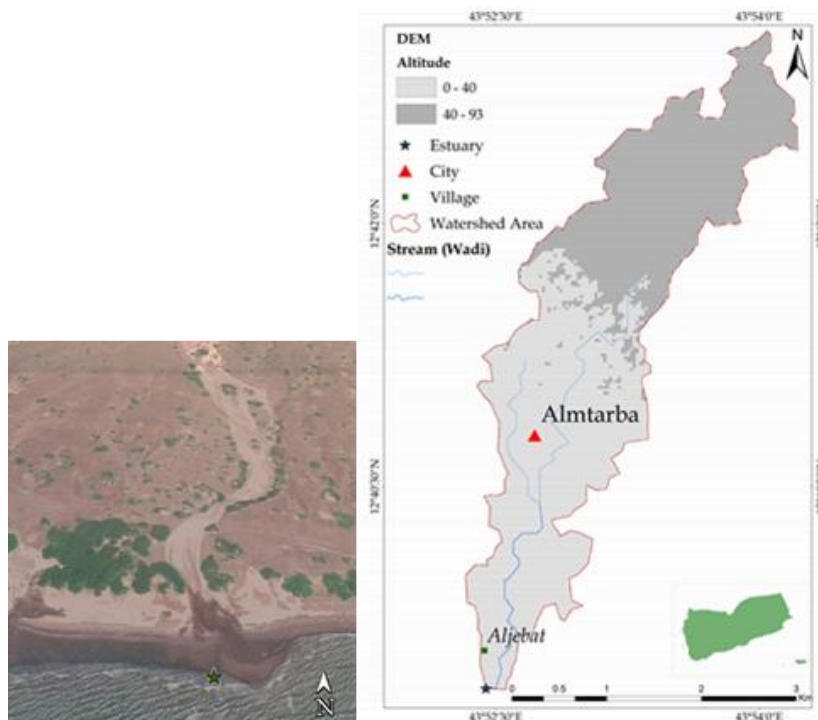


Figure 123. Oro-hydrographic Characteristics of Watershed: Alhdif, Lahej (right)& The satellite view of Aljebat Estuary (2009) (left).

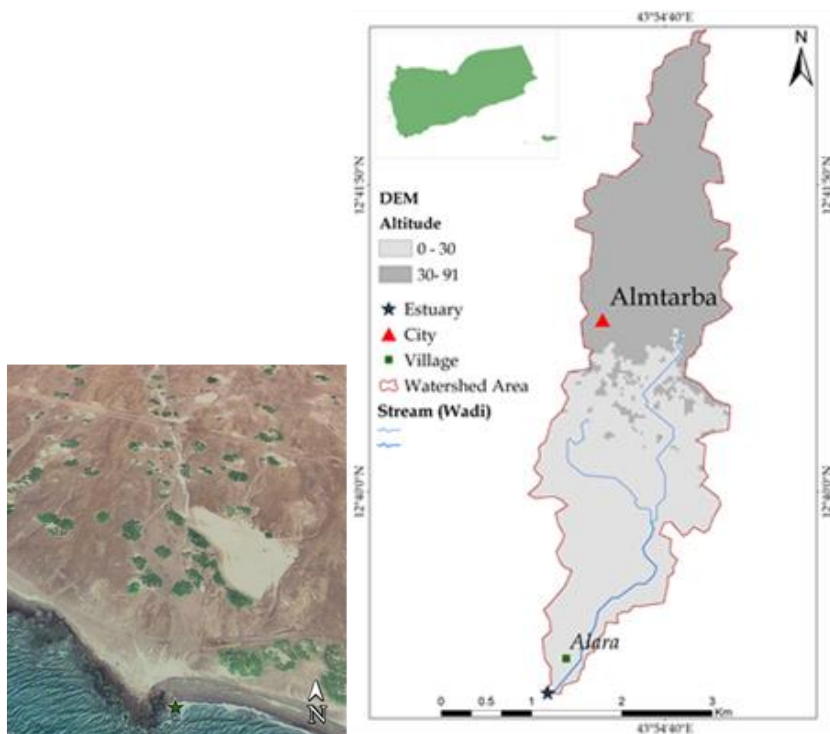


Figure 124. Oro-hydrographic Characteristics of Watershed: Am Alras, Lahej (right)& The satellite view of Alara Estuary (2009) (left).

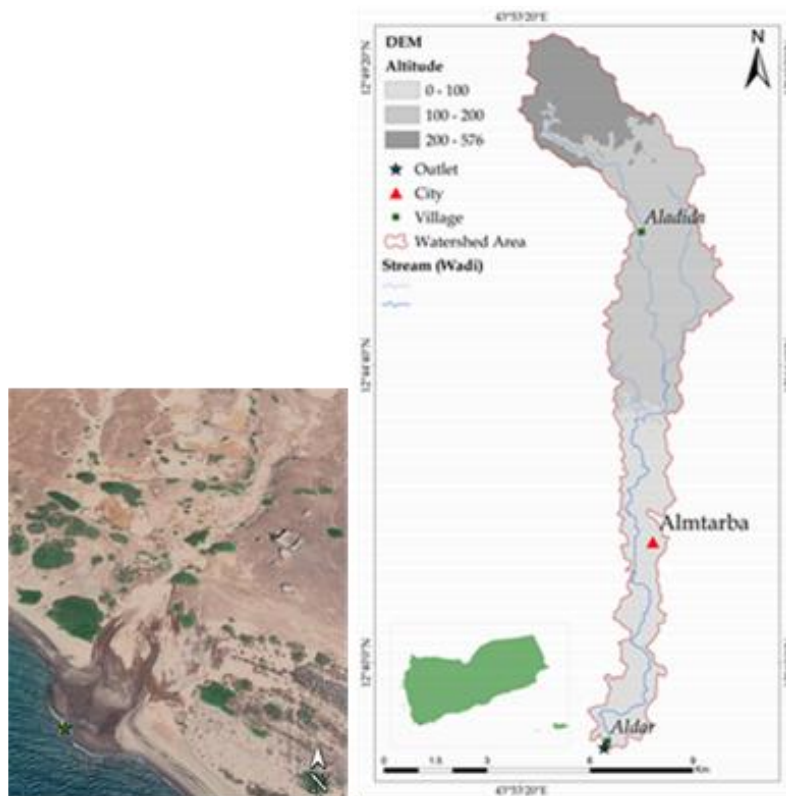


Figure 125. Oro-hydrographic Characteristics of Watershed: Altaif, Lahej (right)& The satellite view of Aldar Estuary (2009) (left).

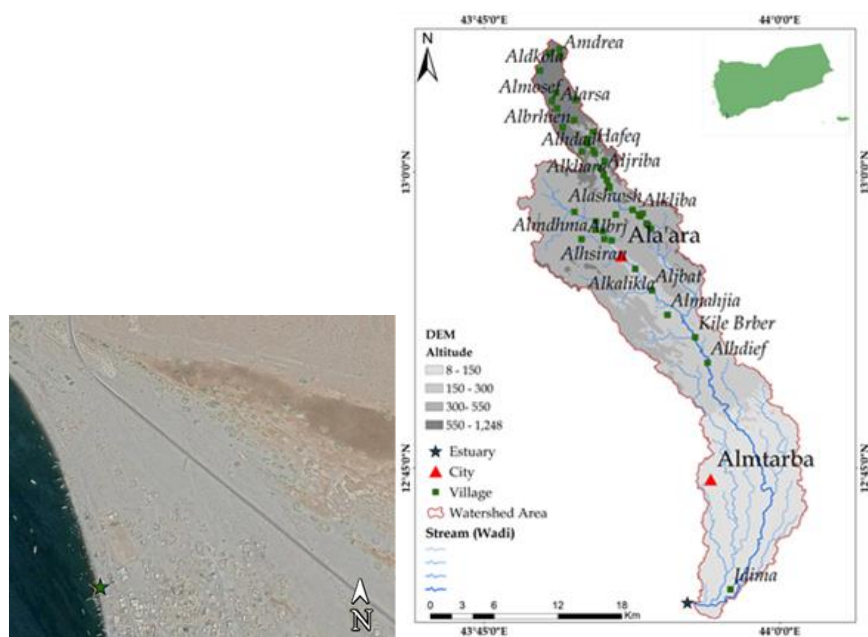


Figure 126. Oro-hydrographic Characteristics of Watershed: Trbeha, Lahej (right)& The satellite view of Jdima Estuary (2018) (left).

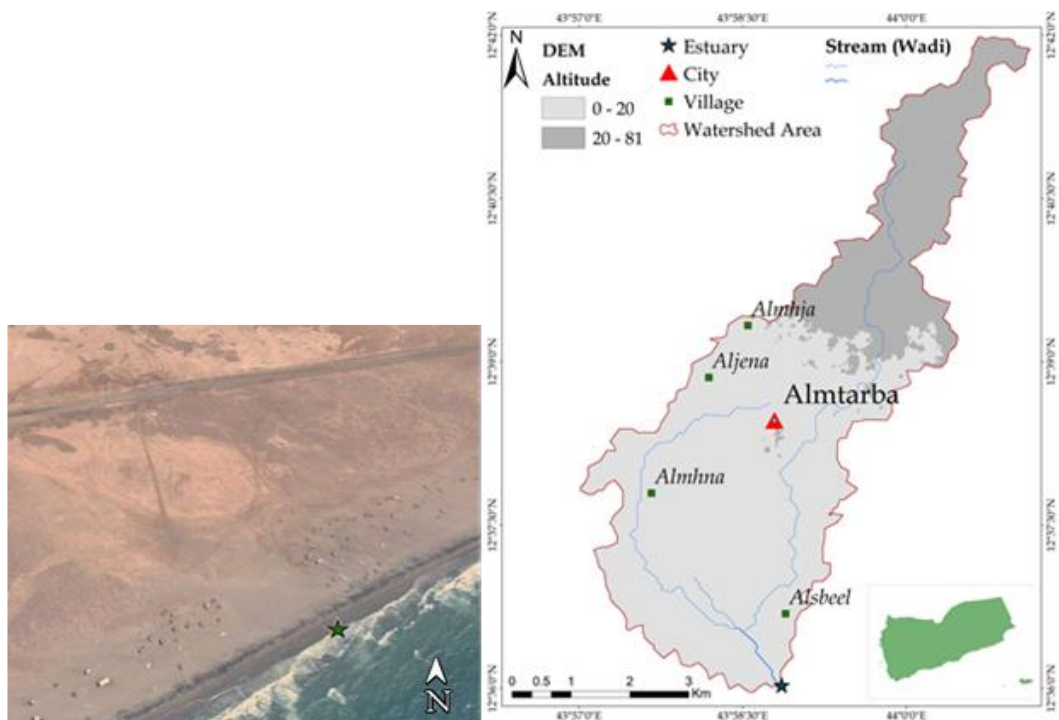


Figure 127. Oro-hydrographic Characteristics of Watershed: Shahbo, Lahej (right) & The satellite view of Alsbeel Estuary (2009) (left).

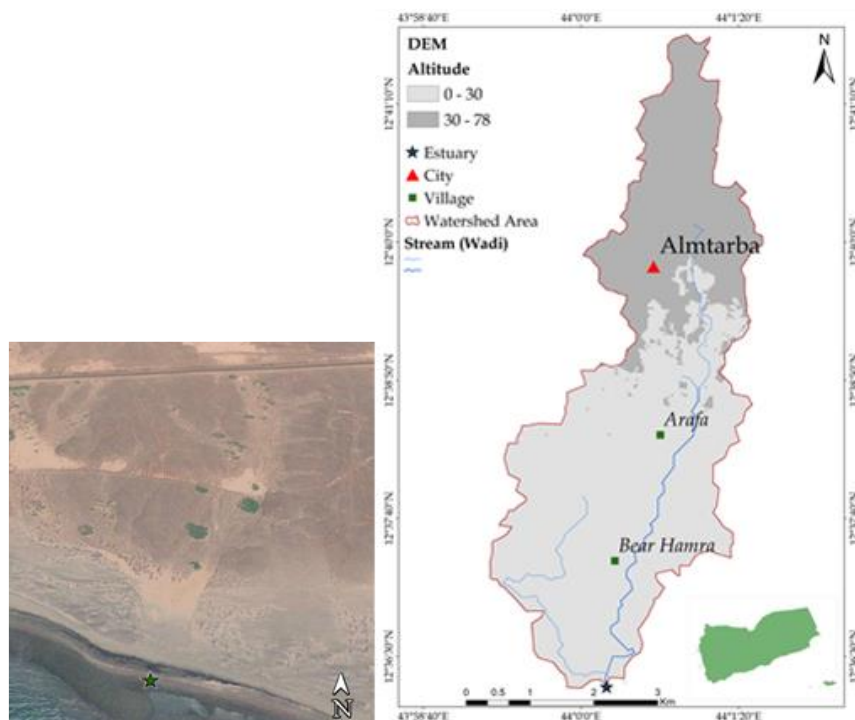


Figure 128. Oro-hydrographic Characteristics of Watershed: Arafh, Lahej (right) & The satellite view of Bear Hamra Estuary (2009) (left).

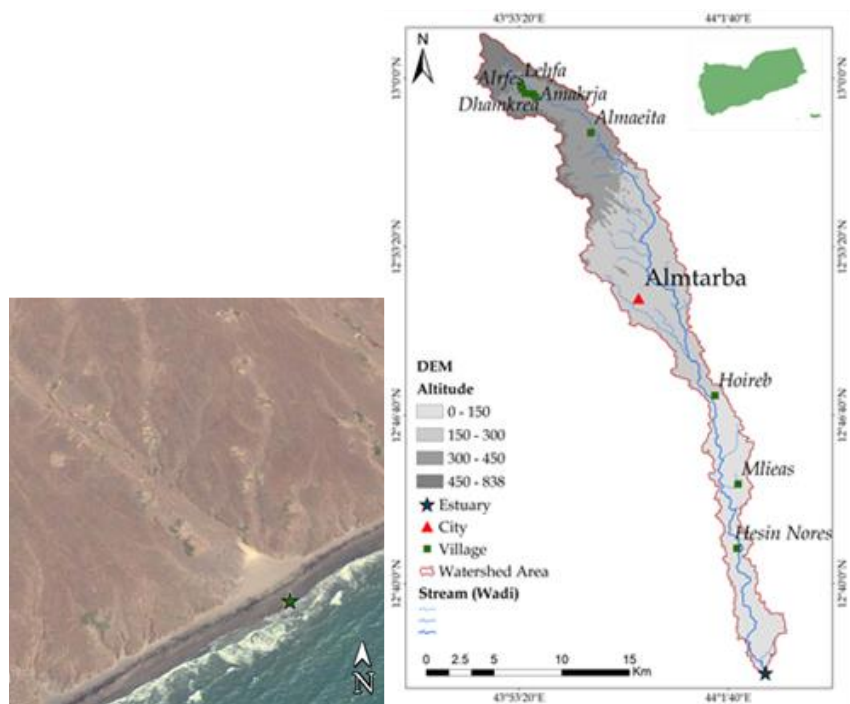


Figure 129. Oro-hydrographic Characteristics of Watershed: Thmnan, Lahej (right)& The satellite view of Hesin Nores Estuary (2009) (left).

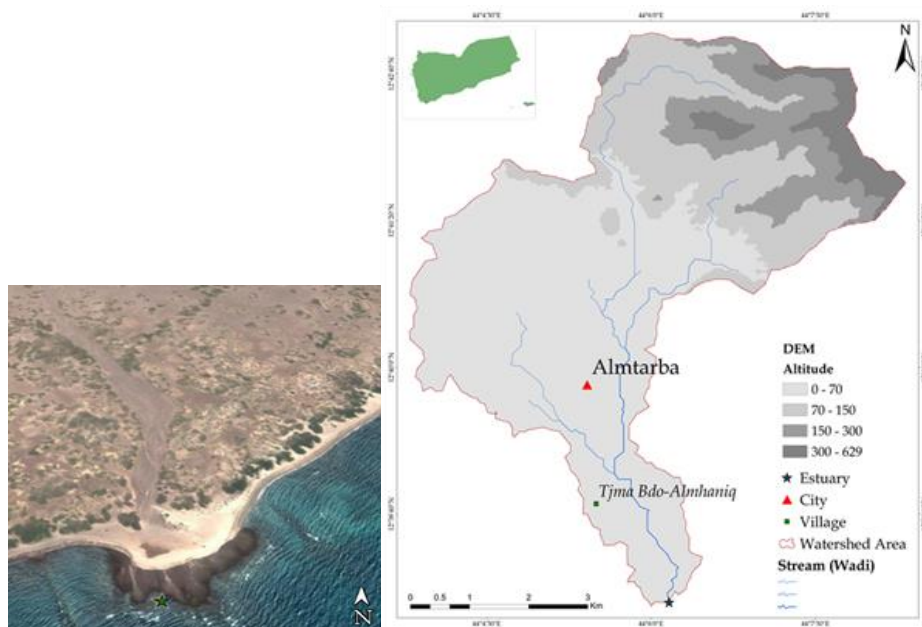


Figure 130. Oro-hydrographic Characteristics of Watershed: Heigan, Lahej (right)& The satellite view of Tjma Abdo-Almhaniq Estuary (2010) (left).

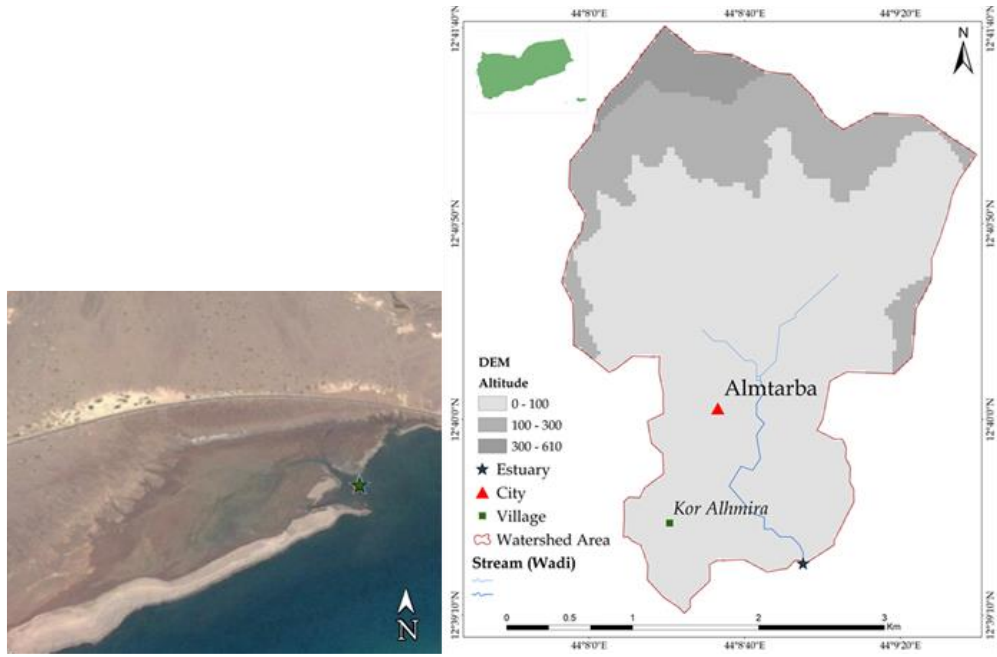


Figure 131. Oro-hydrographic Characteristics of Watershed: Om Sagna, Lahej (right)& The satellite view of Kor Alhmira Estuary (2017) (left).

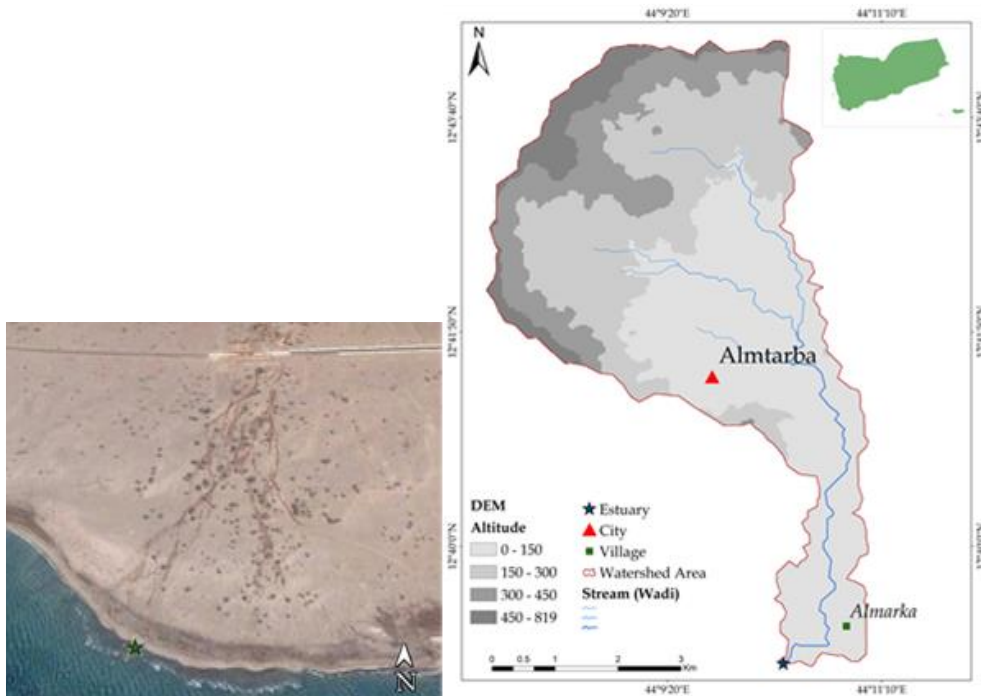


Figure 132. Oro-hydrographic Characteristics of Watershed: Hajfa, Lahej (right)& The satellite view of Almarka Estuary (Delta) (2005) (left).

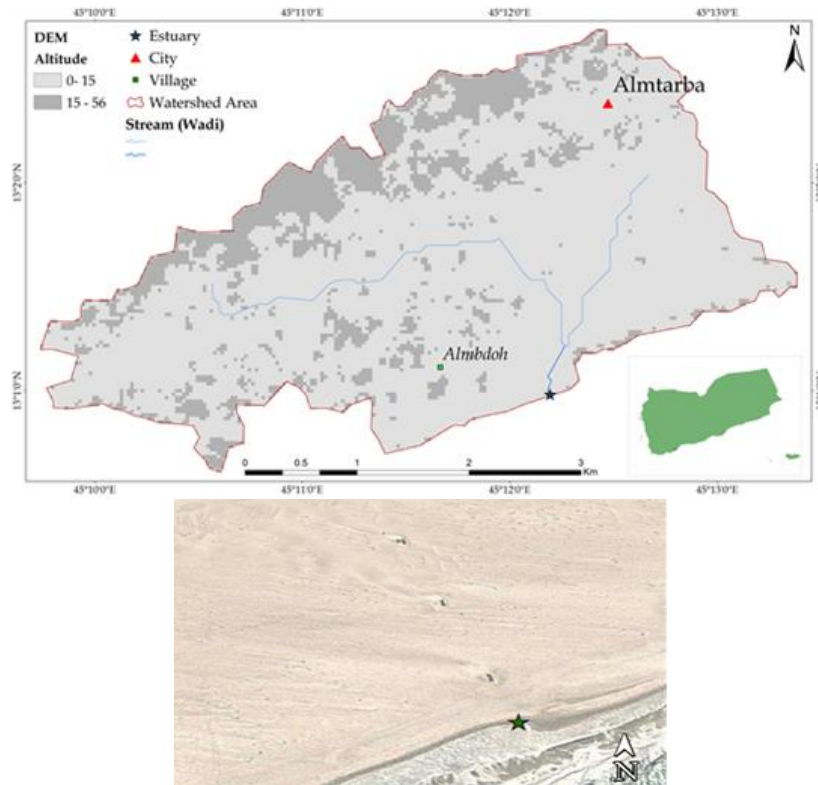


Figure 133. Oro-hydrographic Characteristics of Watershed: Almahd, Lahej (right) & The satellite view of Almbdoh Estuary (2013) (left).

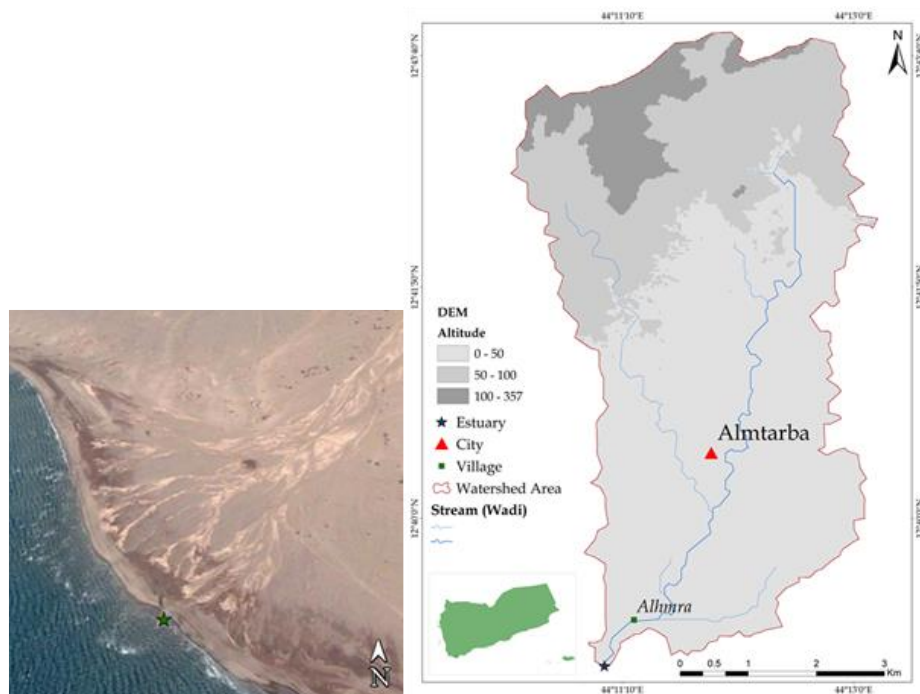


Figure 134. Oro-hydrographic Characteristics of Watershed: Alrehab, Lahej (right) & The satellite view of Almrka Estuary (Delta) (2005) (left).

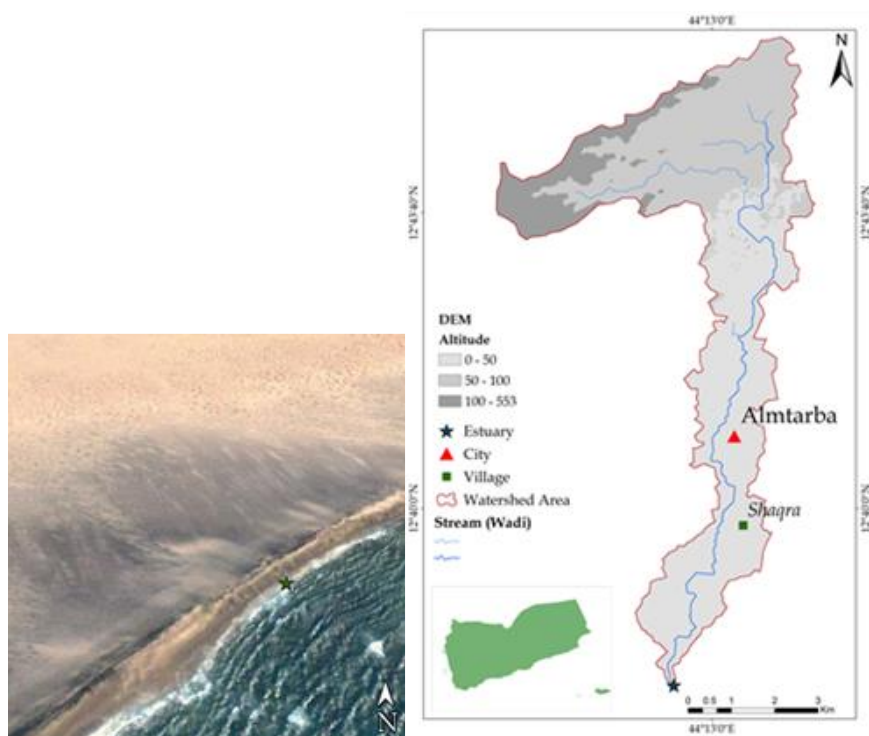


Figure 135. Oro-hydrographic Characteristics of Watershed: Nkiba, Lahej (right)& The satellite view of Shaqra Estuary (2005) (left).

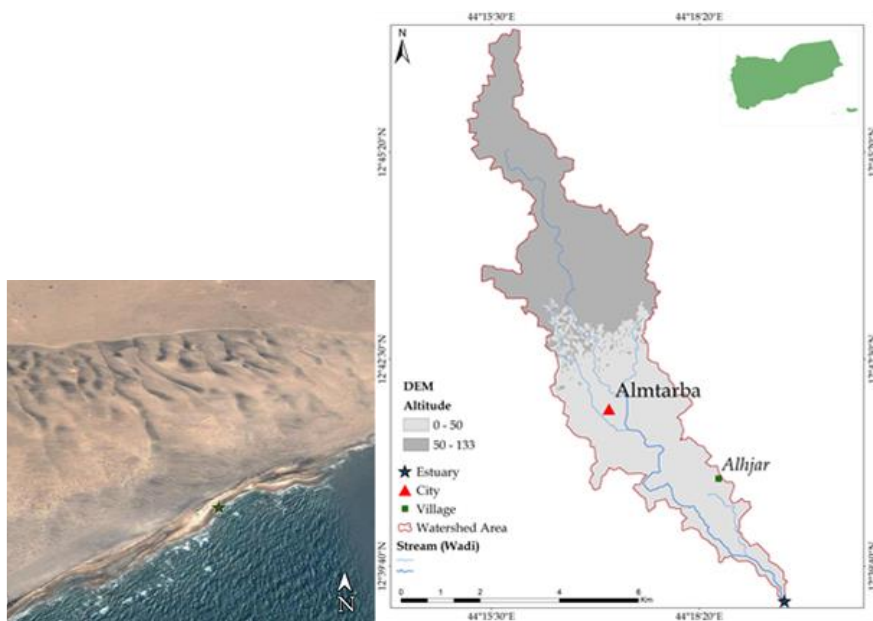


Figure 136. Oro-hydrographic Characteristics of Watershed: Shahr, Lahej (right)& The satellite view of Alhjar Estuary (2005) (left).

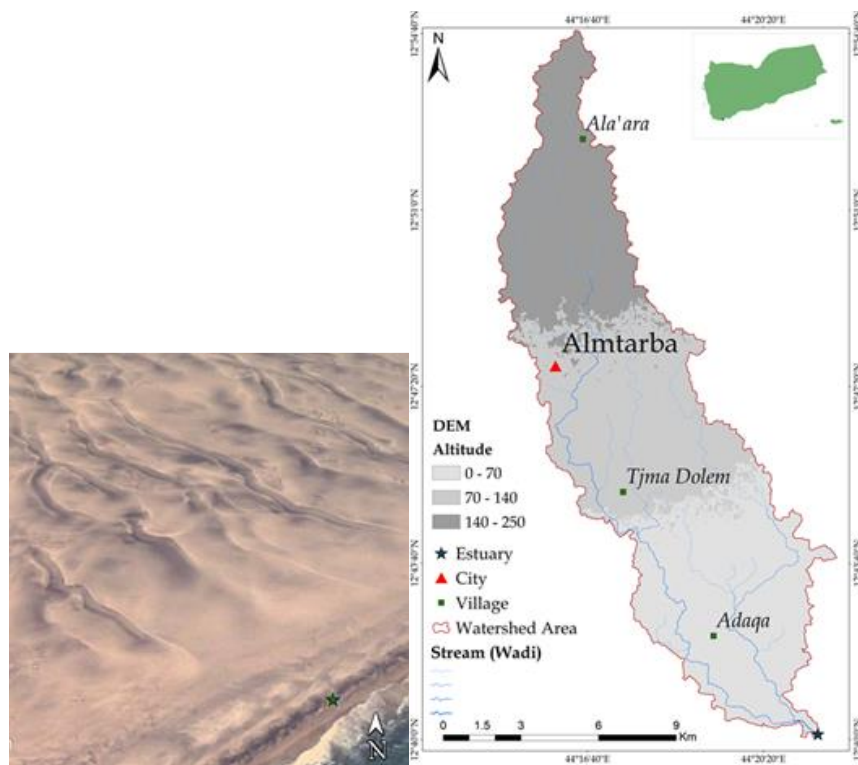


Figure 137. Oro-hydrographic Characteristics of Watershed: Adiem, Lahej (right)& The satellite view of Adaqa Estuary (2009) (left).

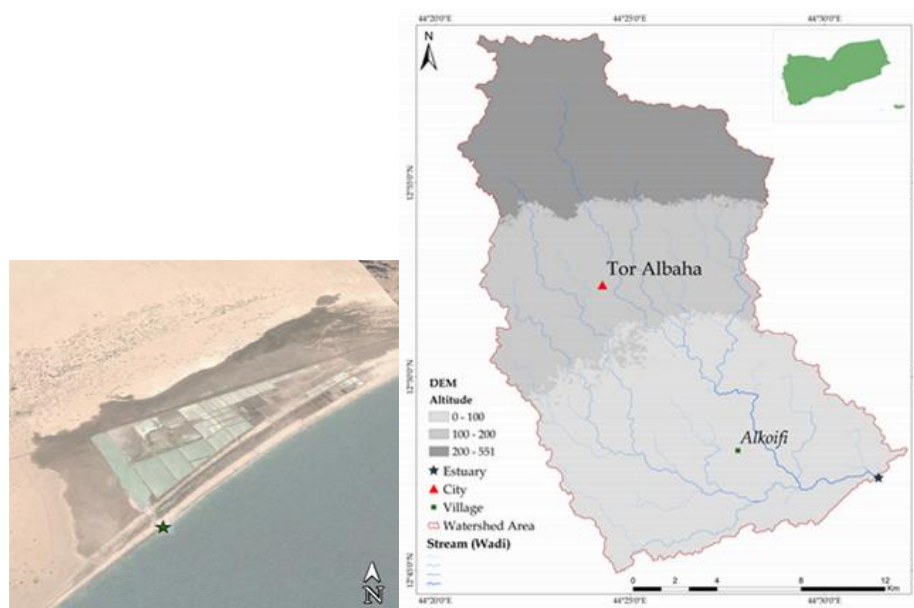


Figure 138. Oro-hydrographic Characteristics of Watershed: Alqria, Lahej (right)& The satellite view of Alkoifi Estuary (2011) (left).

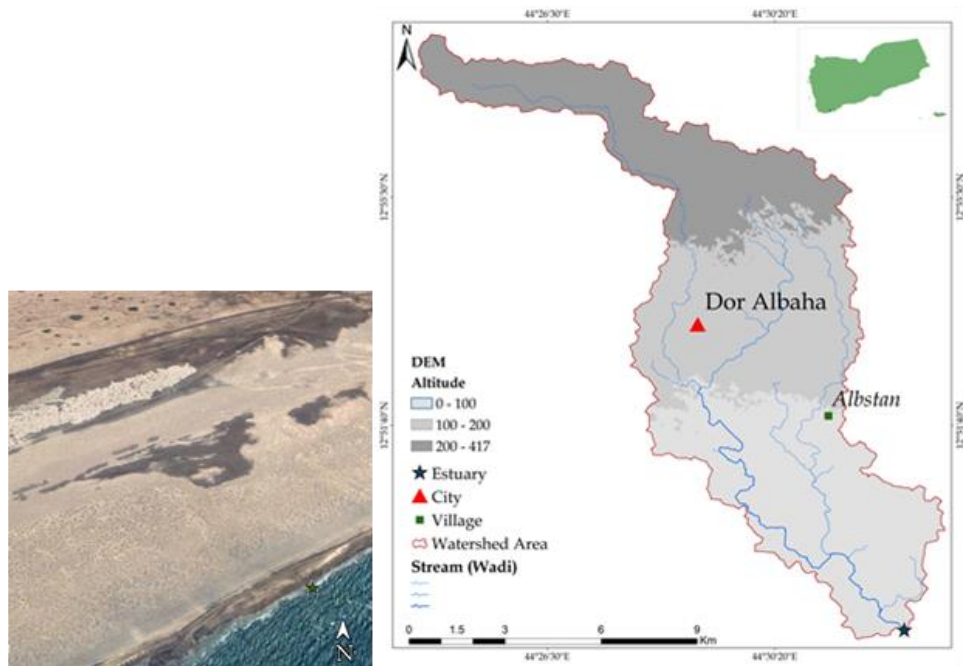


Figure 139. Oro-hydrographic Characteristics of Watershed: Maden, Lahej (right)& The satellite view of Albstan Estuary (2005) (left).

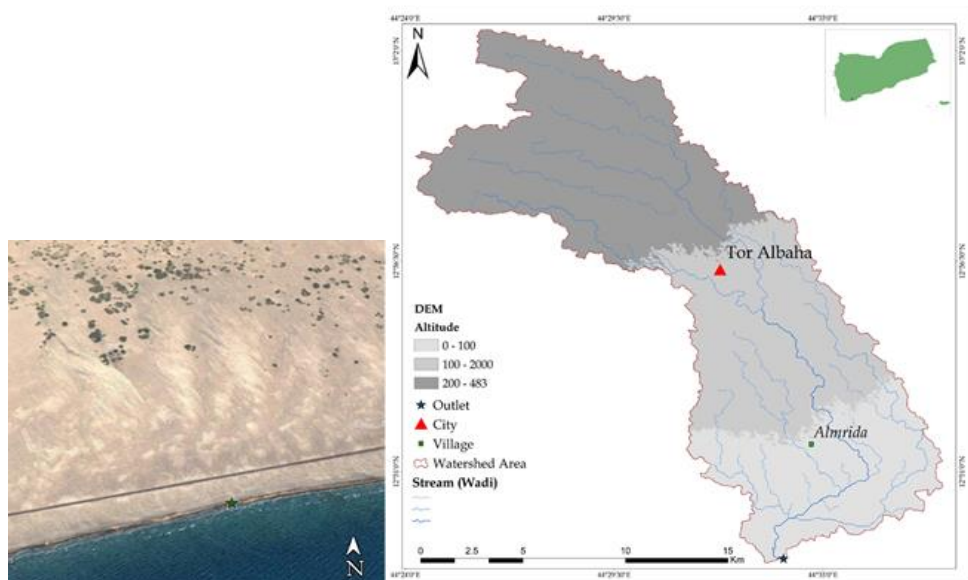


Figure 140. Oro-hydrographic Characteristics of Watershed: Om Alsier, Lahej (right)& The satellite view of Almirda Estuary (2005) (left).

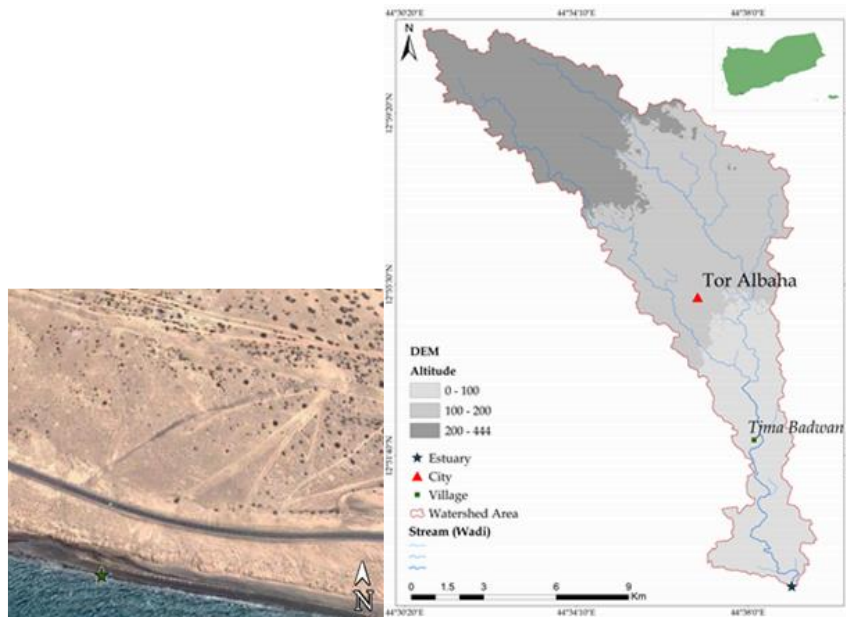


Figure 141. Oro-hydrographic Characteristics of Watershed: Altien, Lahej (right)& The satellite view of Tima Bdwan Estuary (2005) (left).

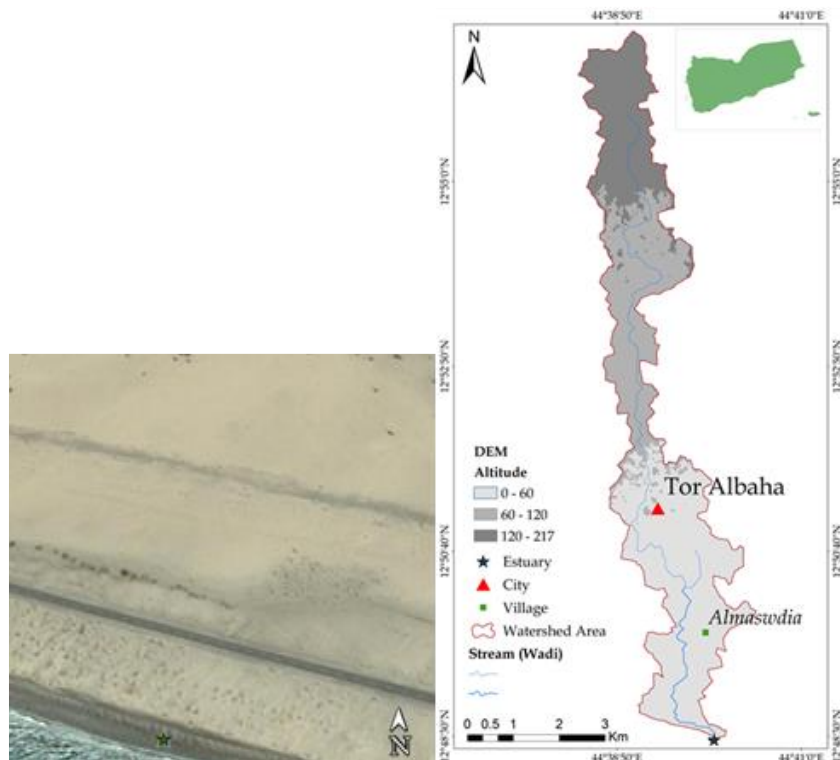


Figure 142. Oro-hydrographic Characteristics of Watershed: Alrja'a, Lahej (right)& The satellite view of Almswdia Estuary (2013) (left).

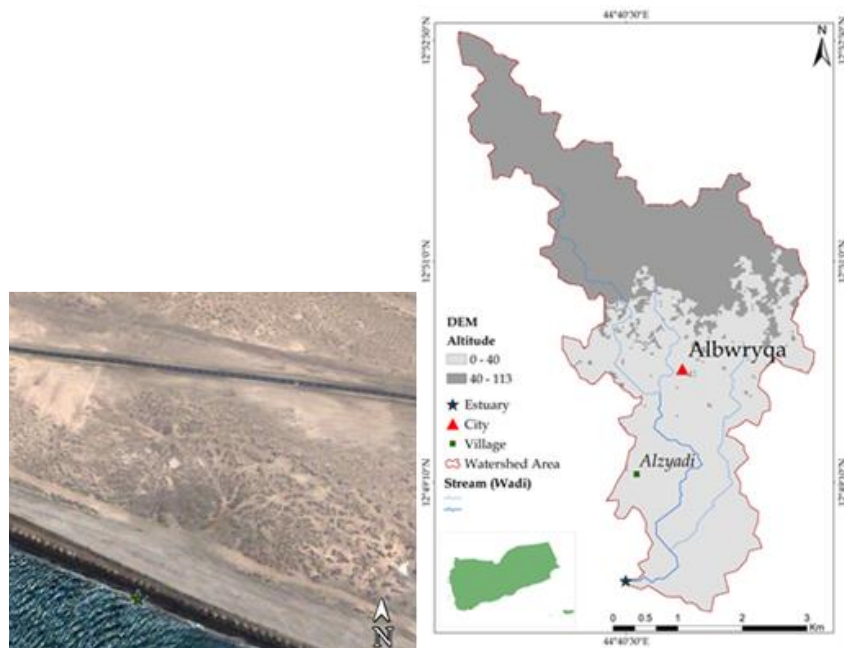


Figure 143. Oro-hydrographic Characteristics of Watershed: Kazen, Aden (right)& The satellite view of Alzyadi Estuary (2005) (left).

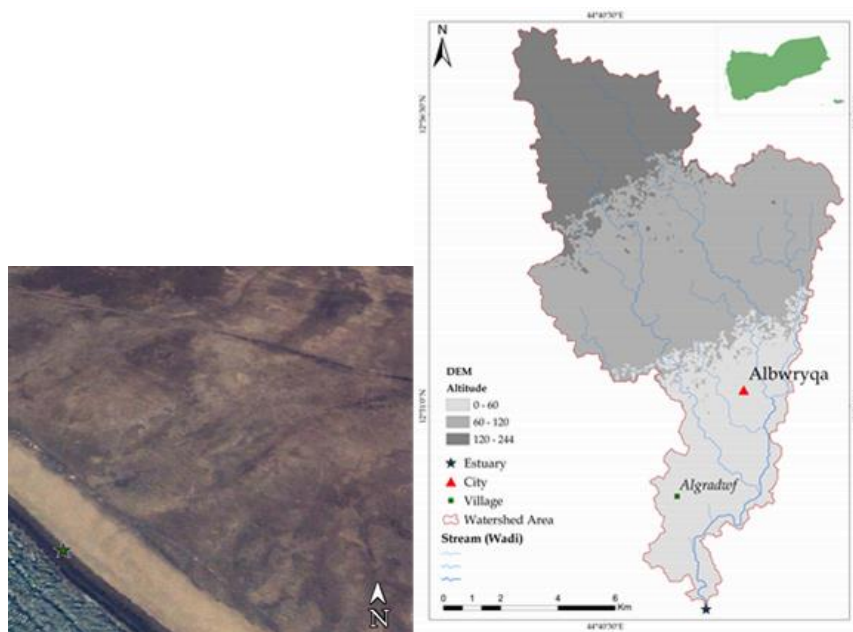


Figure 144. Oro-hydrographic Characteristics of Watershed: Almsewdia, Aden (right)& The Algrdwf Estuary (2005) (left).

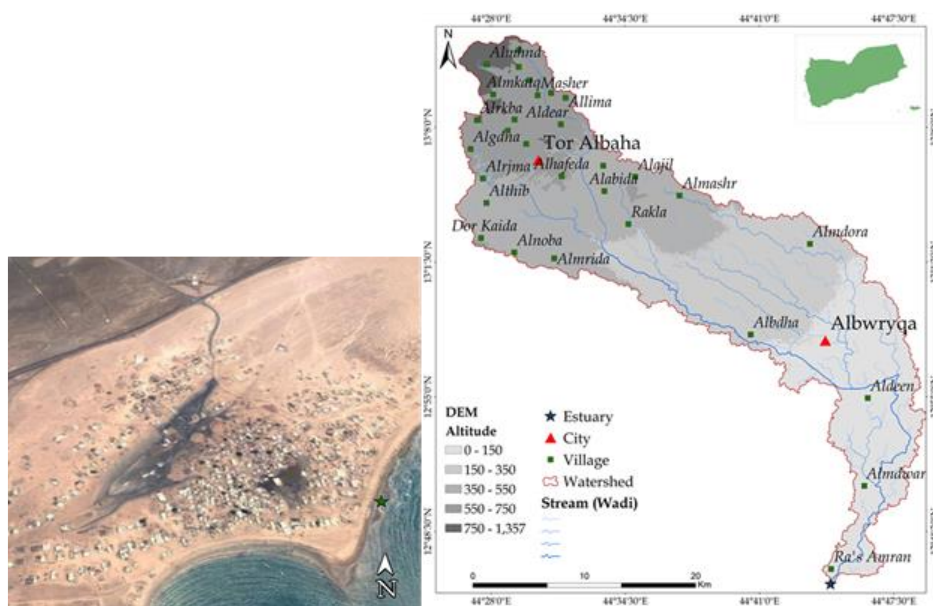


Figure 145. Oro-hydrographic Characteristics of Watershed: Om Rjam, Aden (right)& The satellite view of Ra's Amran Estuary (2005) (left).

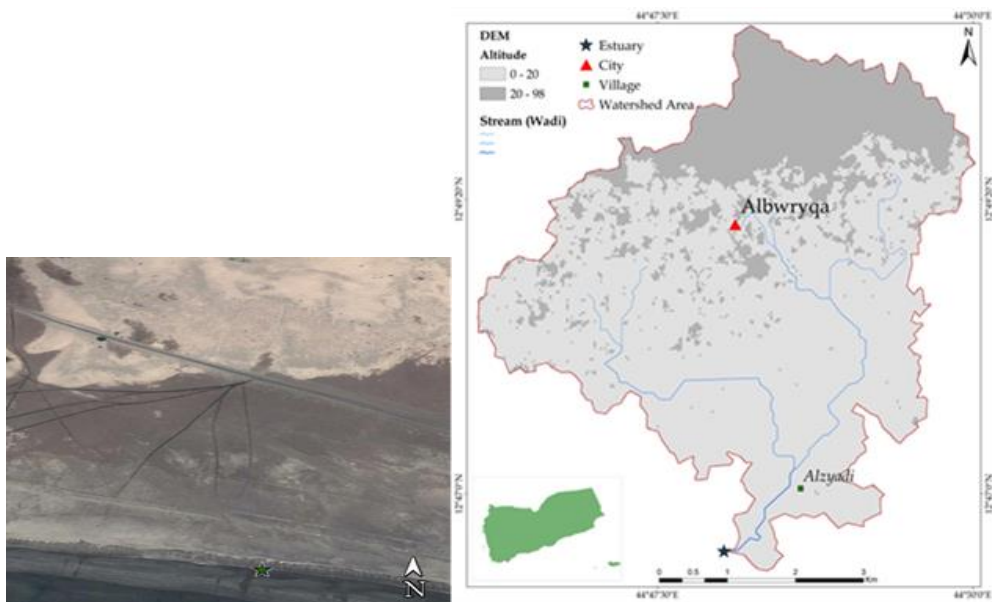


Figure 146. Oro-hydrographic Characteristics of Watershed: Albaha, Aden (right)& The satellite view of Alzyadi Estuary (2012) (left).

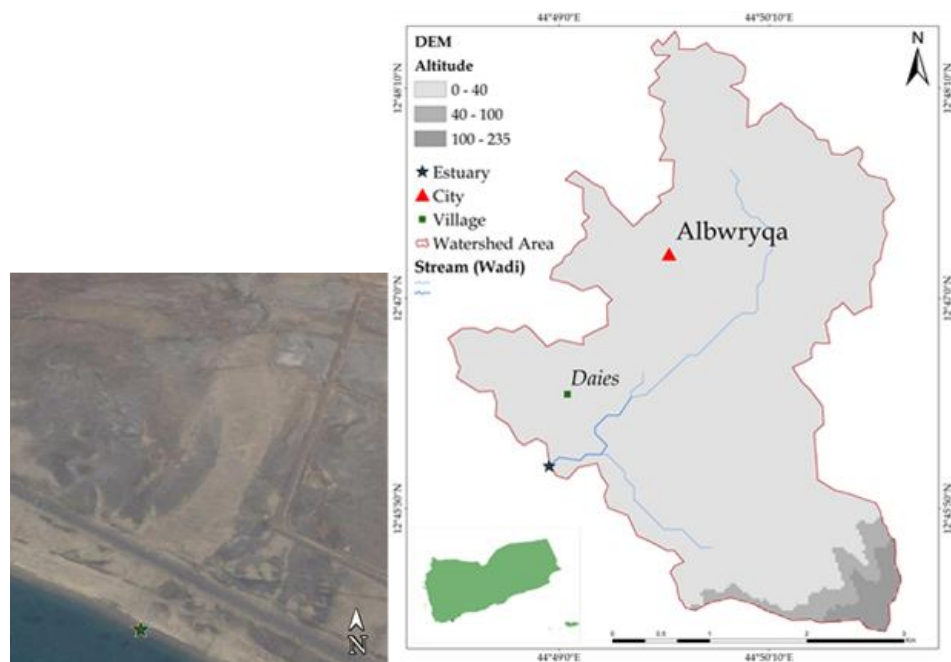


Figure 147. Oro-hydrographic Characteristics of Watershed: Alsheibi, Aden (right)& The satellite view of Daies Estuary (2010) (left).

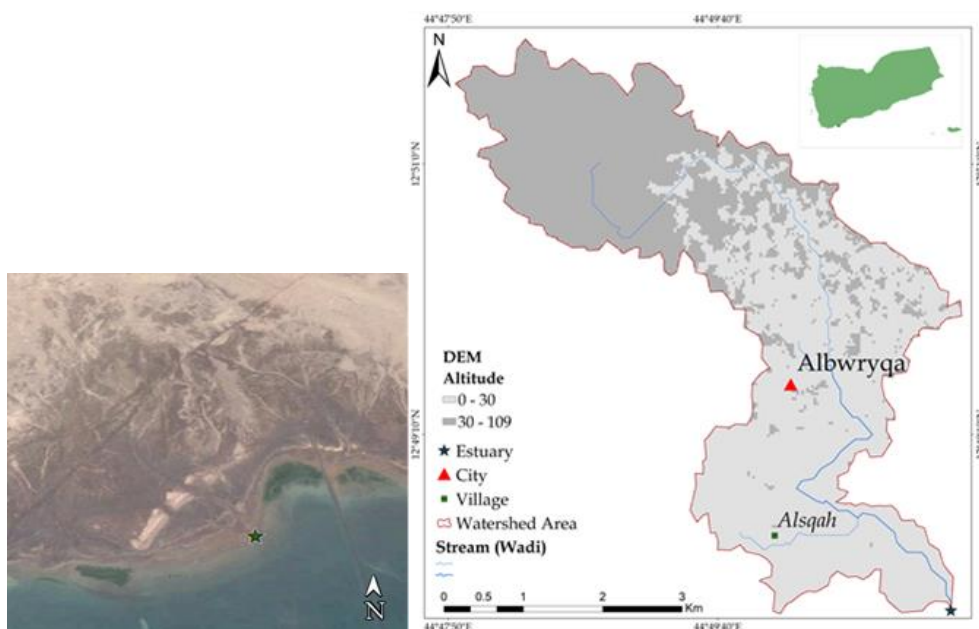


Figure 148. Oro-hydrographic Characteristics of Watershed: Almsan, Aden (right)& The satellite view of Alsqah Estuary (2010) (left).

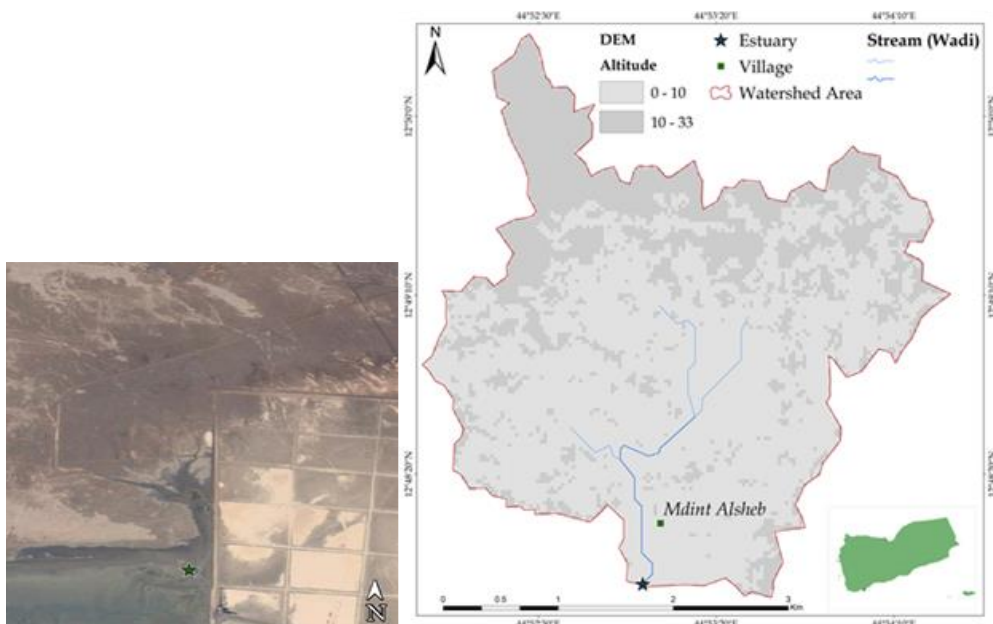


Figure 149. Oro-hydrographic Characteristics of Watershed: Alhwta, Aden (right)& The satellite view of Mdint Alsheb Estuary (2011) (left).

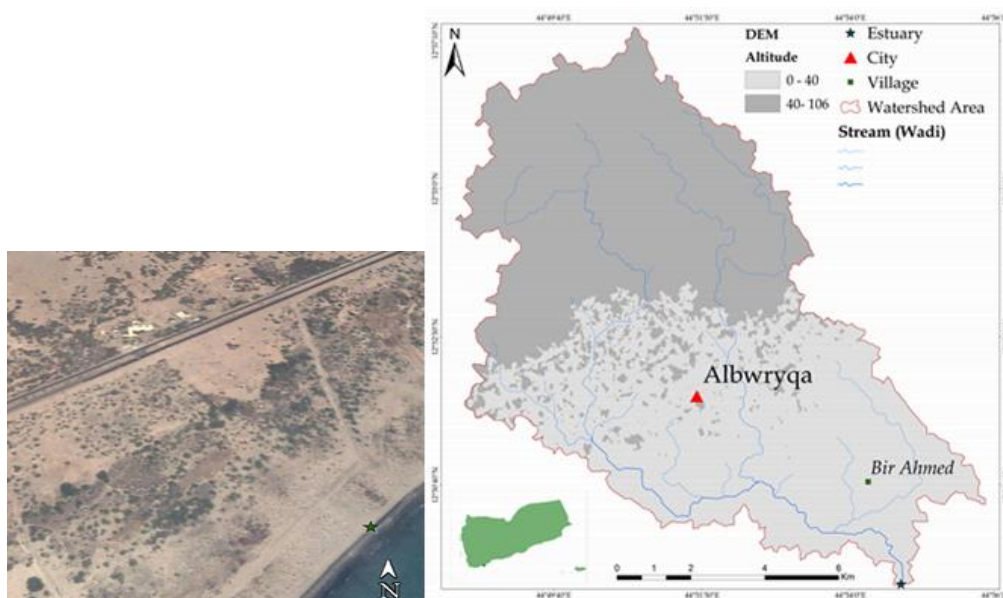


Figure 150. Oro-hydrographic Characteristics of Watershed: Abrein, Aden (right)& The satellite view of Bir Ahmed Estuary (2004) (left).

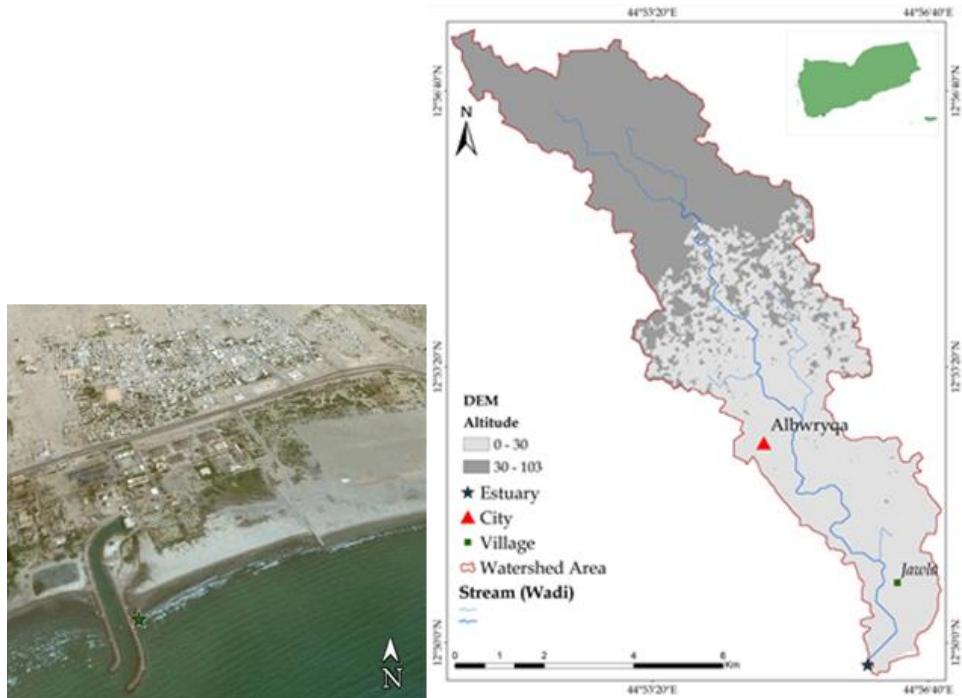


Figure 151. Oro-hydrographic Characteristics of Watershed: Jawla, Aden (right)& The satellite view of Jawla Estuary (2011) (left).

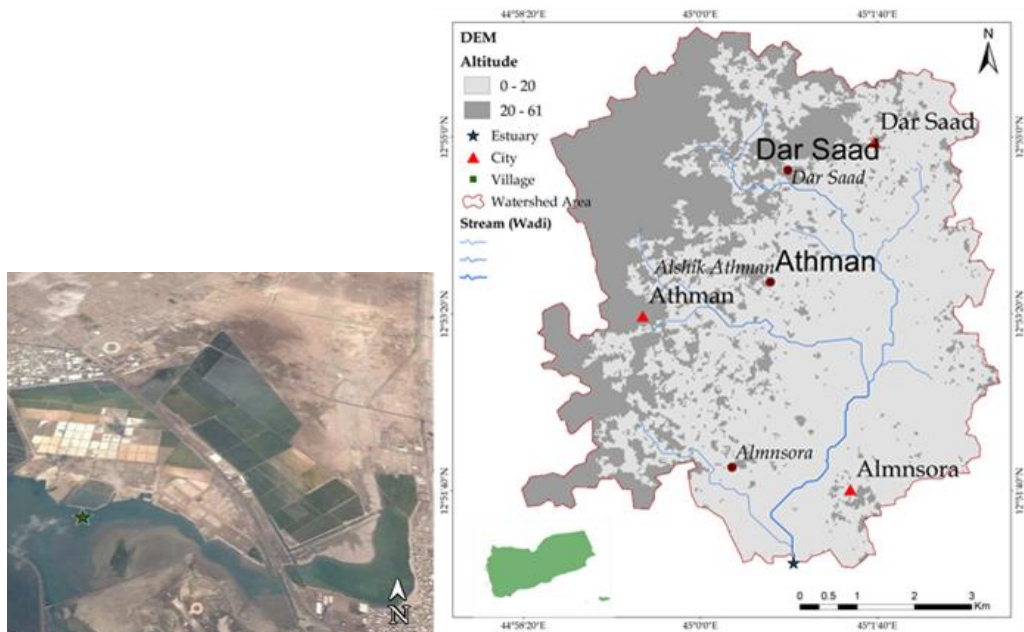


Figure 152. Oro-hydrographic Characteristics of Watershed: Shreja, Aden (right)& The satellite view of Almnsora Estuary (2007) (left).

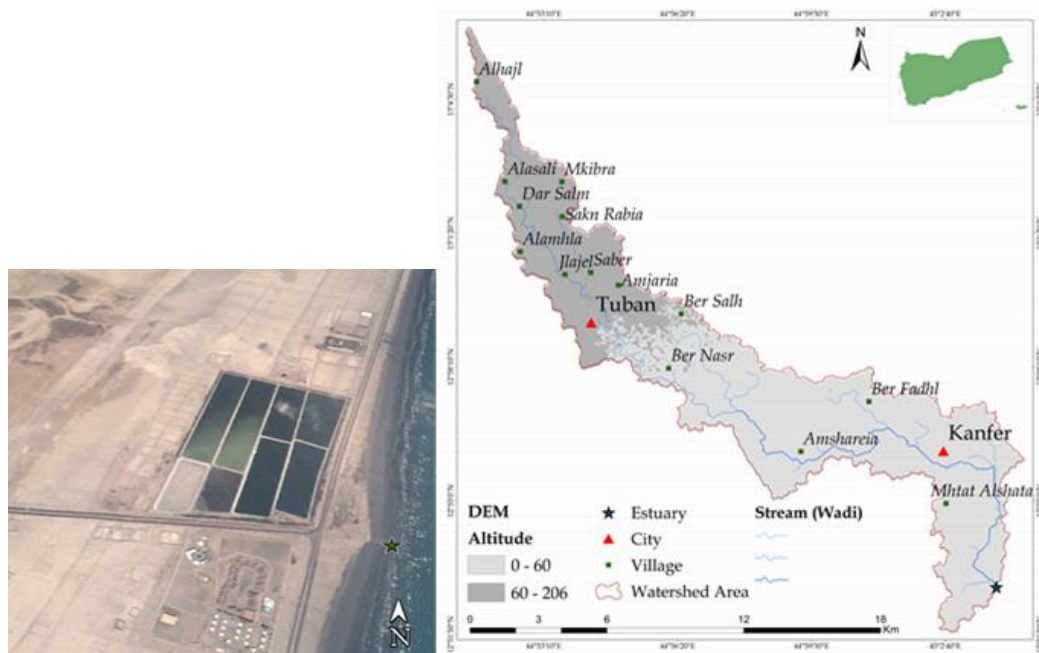


Figure 153. Oro-hydrographic Characteristics of Watershed: Almjhla, Abyan (right)& The satellite view of Mhtat Alshate Estuary (2007) (left).

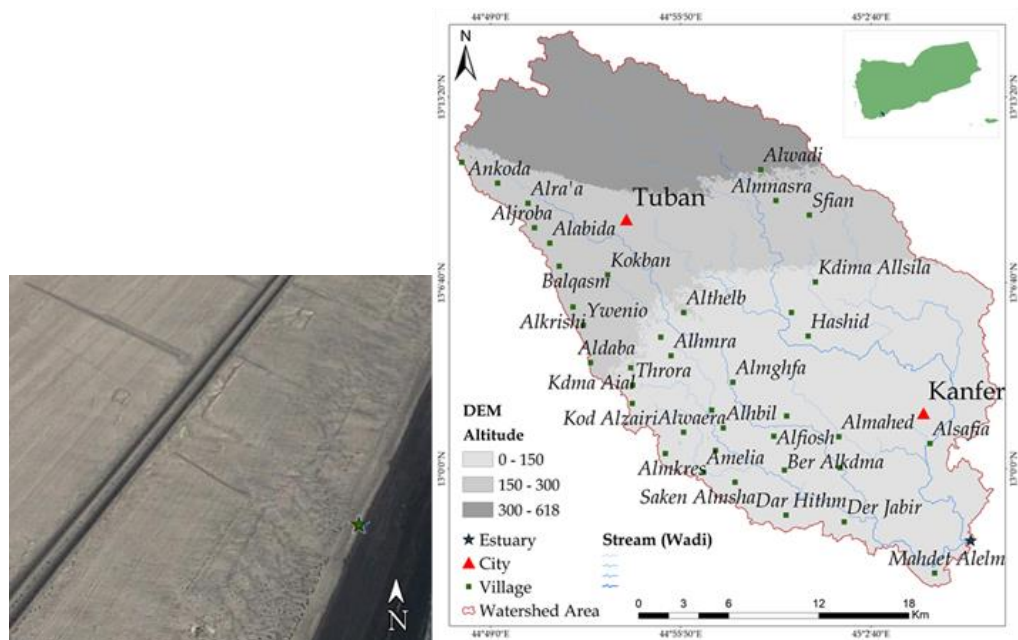


Figure 154. Oro-hydrographic Characteristics of Watershed: Almnaser, Abyan (right)& The satellite view of Mahtat Alelm Estuary (2012) (left).

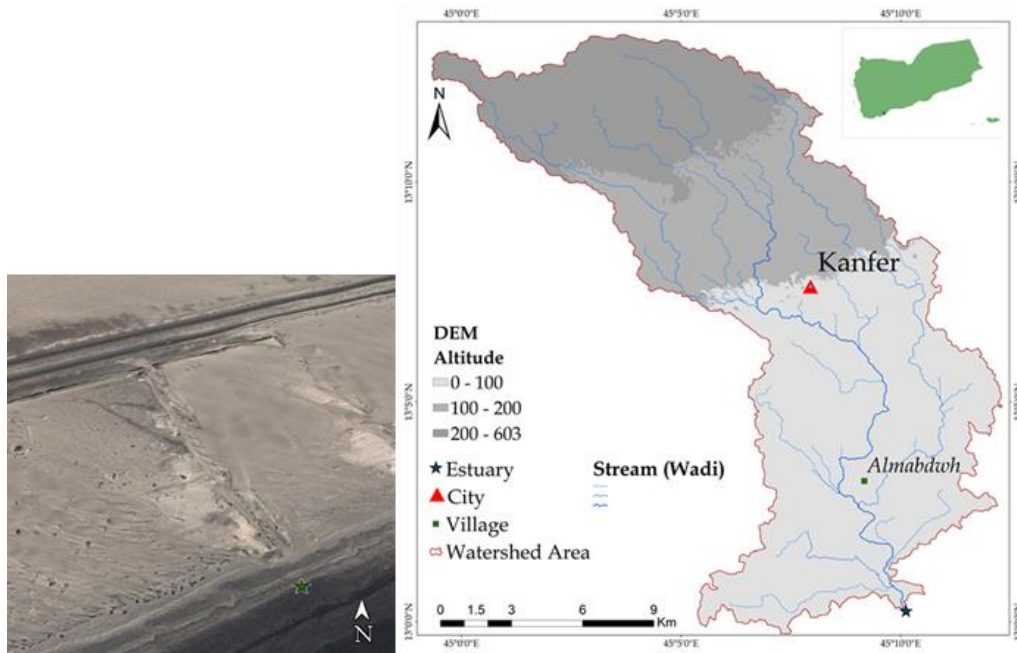


Figure 155. Oro-hydrographic Characteristics of Watershed: Almlah, Abyan (right)& The satellite view of Almbdwh Estuary (2012) (left).

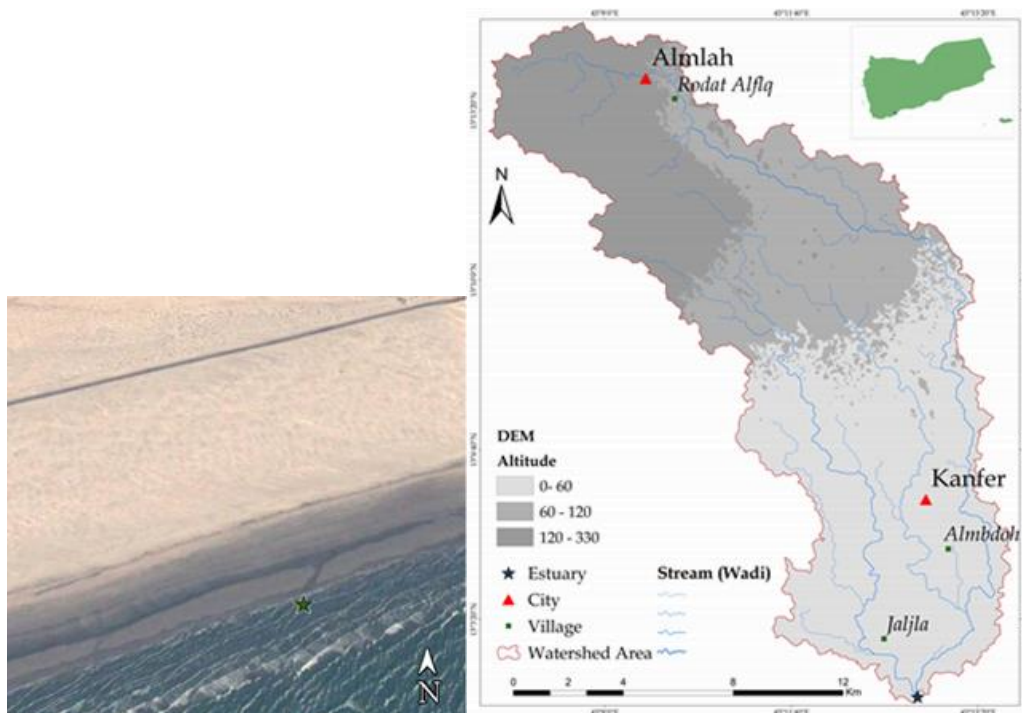


Figure 156. Oro-hydrographic Characteristics of Watershed: Om Shybia a, Abyan (right)& The satellite view of Jaljl Estuary (2009) (left).

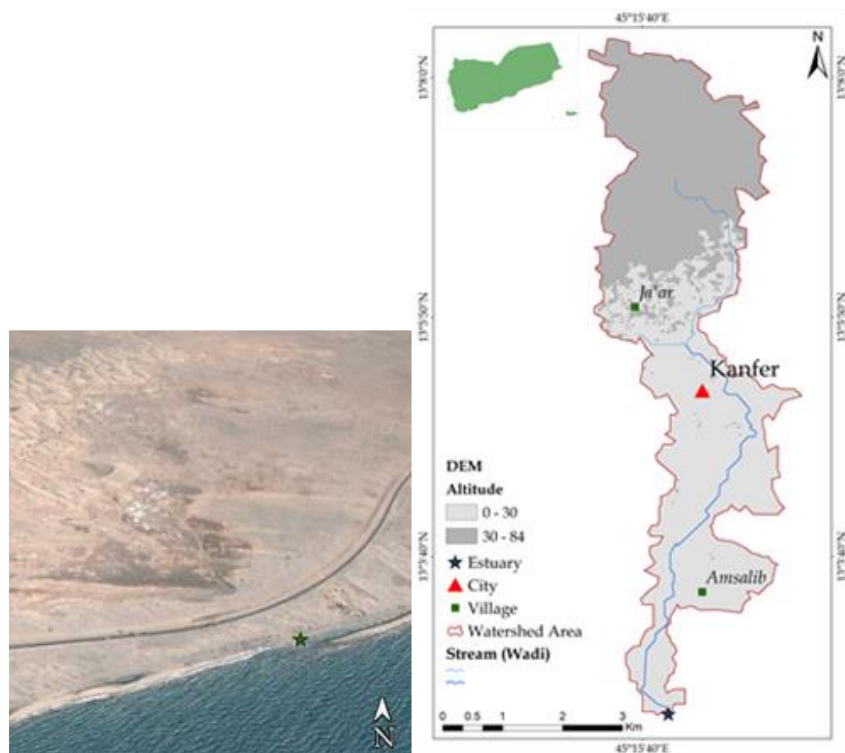


Figure 157. Oro-hydrographic Characteristics of Watershed: Amsalib, Abyan (right)& The satellite view of Amsalib Estuary (2009) (left).

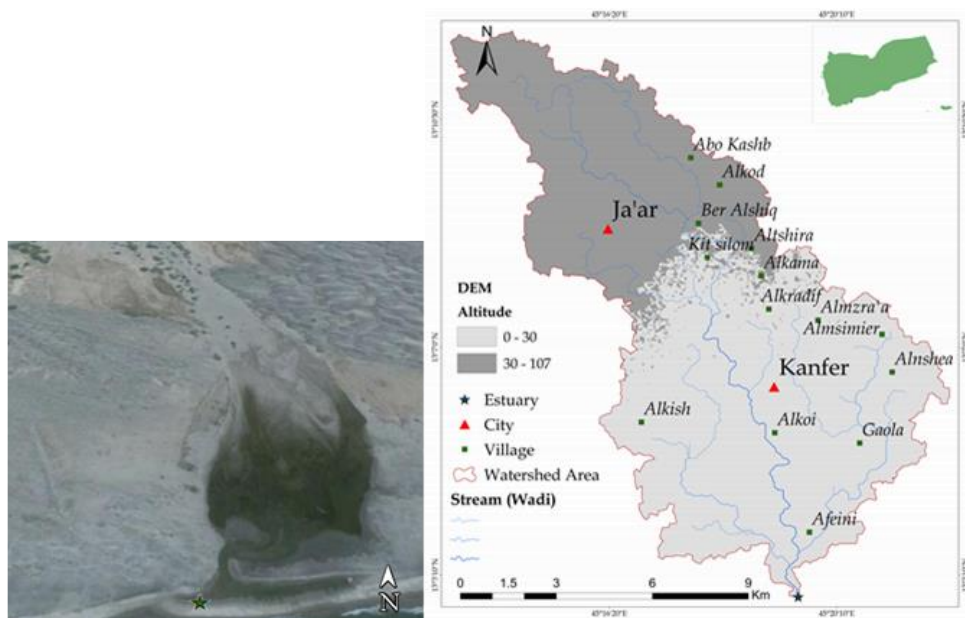


Figure 158. Oro-hydrographic Characteristics of Watershed: Alkoi, Abyan (right)& The satellite view of Afeini Estuary (2017) (left).

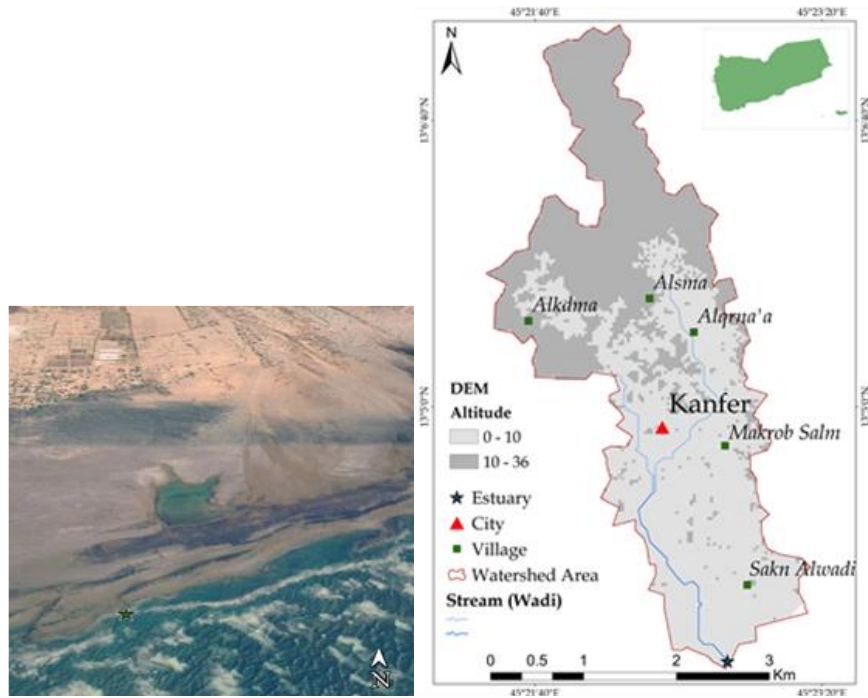


Figure 159. Oro-hydrographic Characteristics of Watershed: Alnshea, Abyan (right)& The satellite view of Sakn Alwadi Estuary (2009) (left).

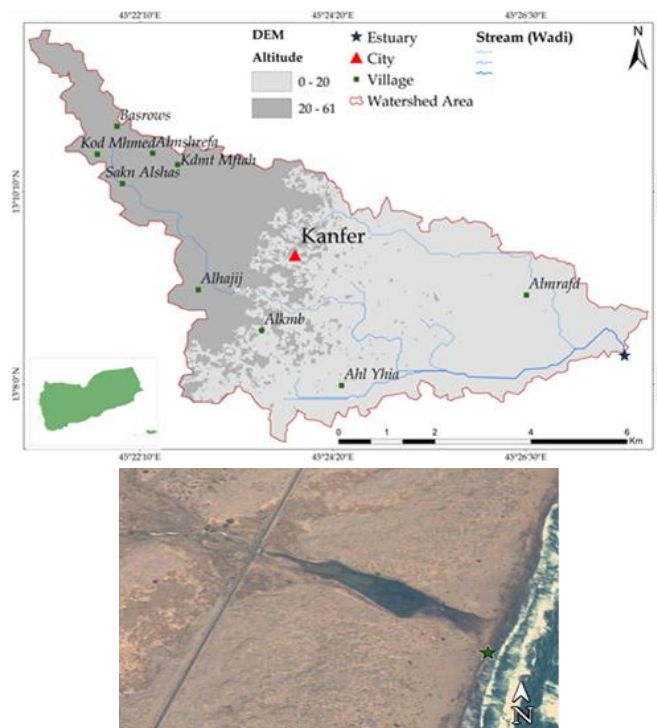


Figure 160. Oro-hydrographic Characteristics of Watershed: Alhwani, Abyan (right)& The satellite view of Almrafd Estuary (2005) (left).

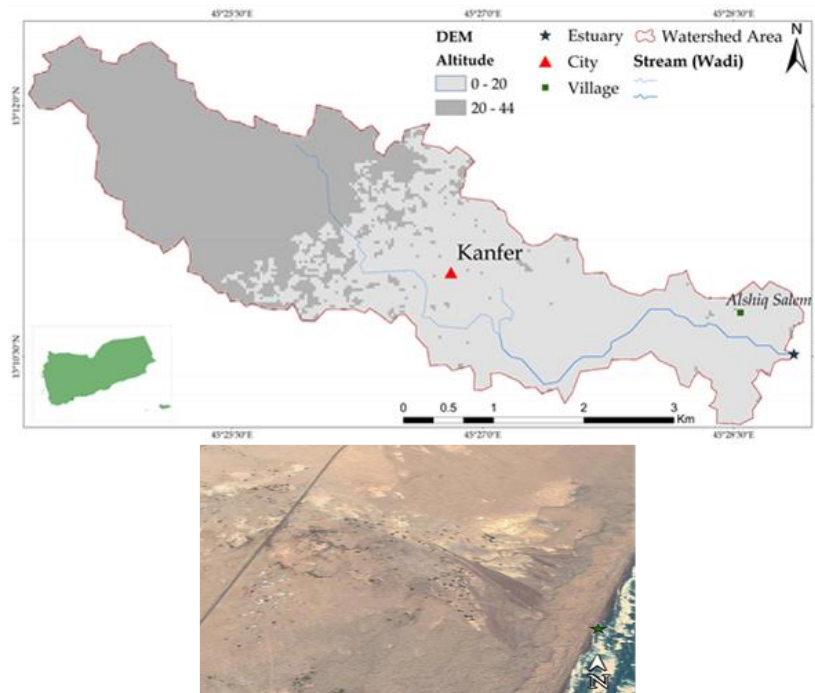


Figure 161. Oro-hydrographic Characteristics of Watershed: Alasia, Abyan (top)& The satellite view of Alshiq Salem Estuary (2005) (below).

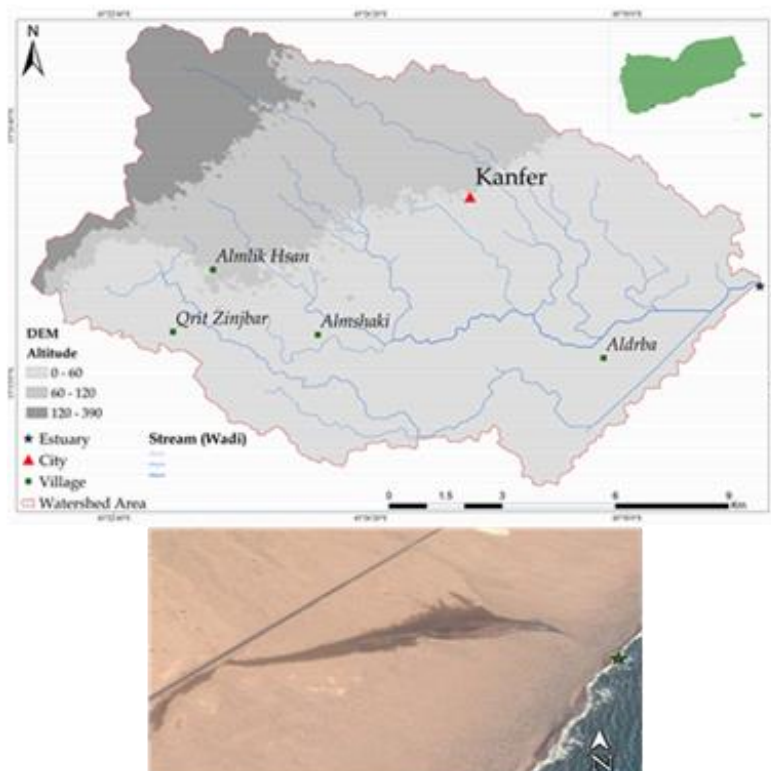


Figure 162. Oro-hydrographic Characteristics of Watershed: Zanjbar, Abyan (top)& The satellite view of Aldrba Estuary (2009) (below).

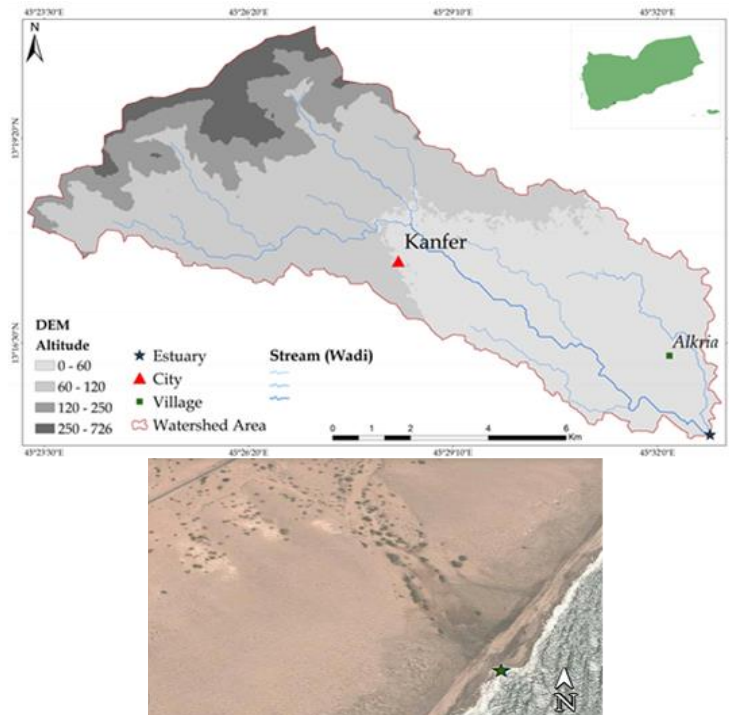


Figure 163. Oro-hydrographic Characteristics of Watershed: Timea, Abyan (top)& The satellite view of Alqria Estuary (2013) (below).

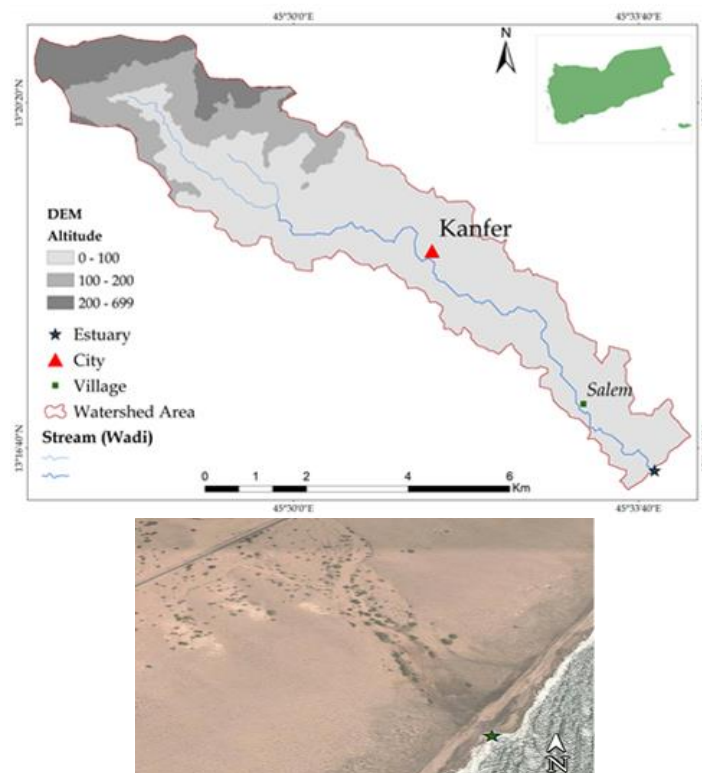


Figure 164. Oro-hydrographic Characteristics of Watershed: Dahi, Abyan (top)& The satellite view of Salem Estuary (2013) (below).

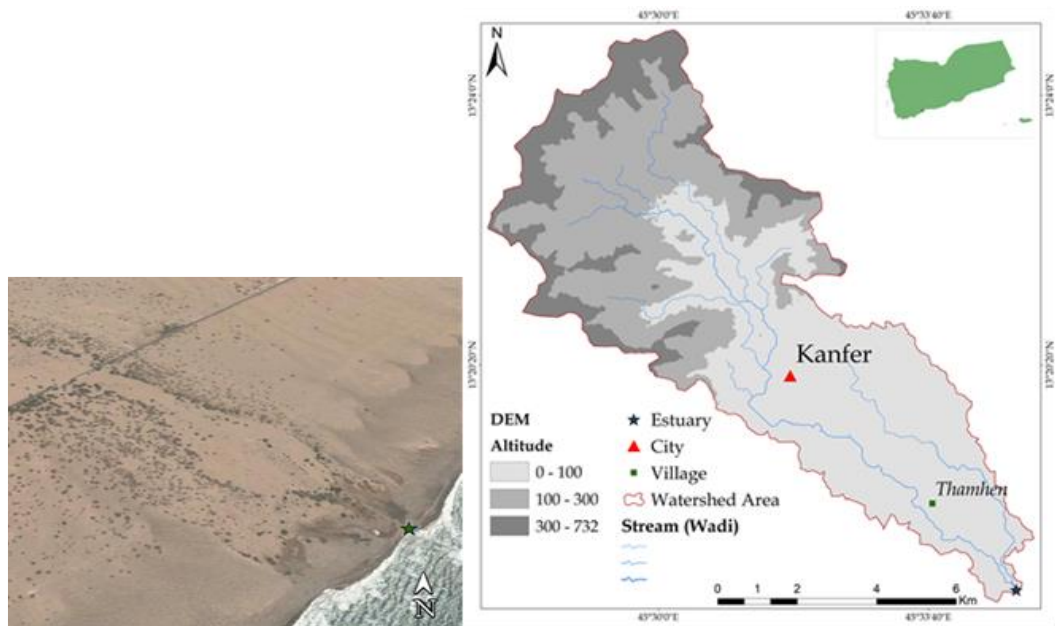


Figure 165. Oro-hydrographic Characteristics of Watershed: Batha, Abyan (right)& The satellite view of Thamhen Estuary (2013) (below).

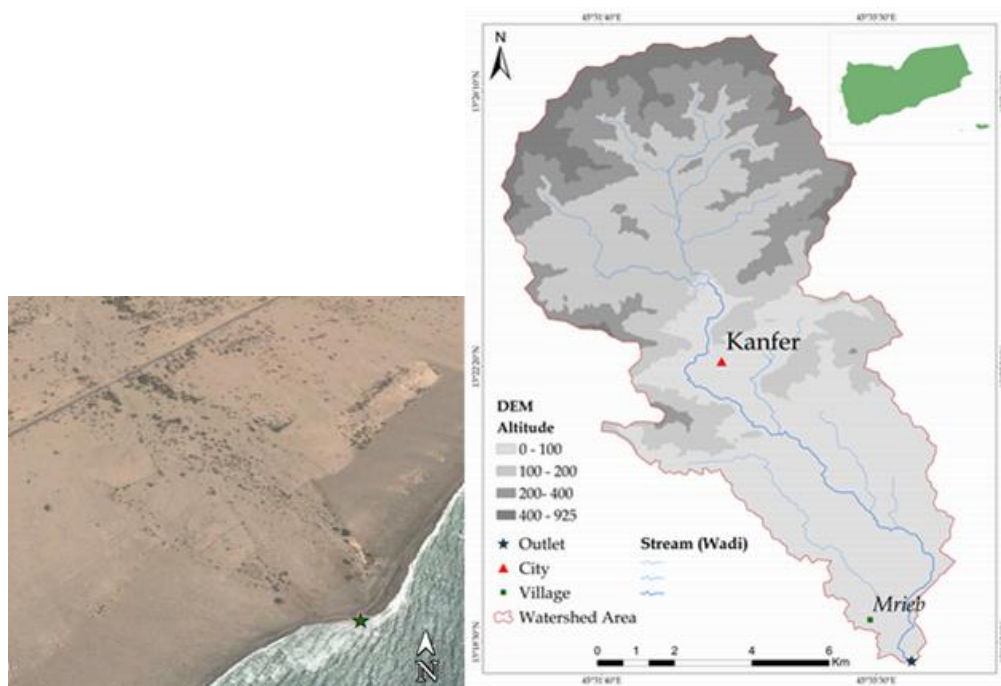


Figure 166. Oro-hydrographic Characteristics of Watershed: Thaelan, Abyan (right)& The satellite view of Mrieh Estuary (2013) (left).

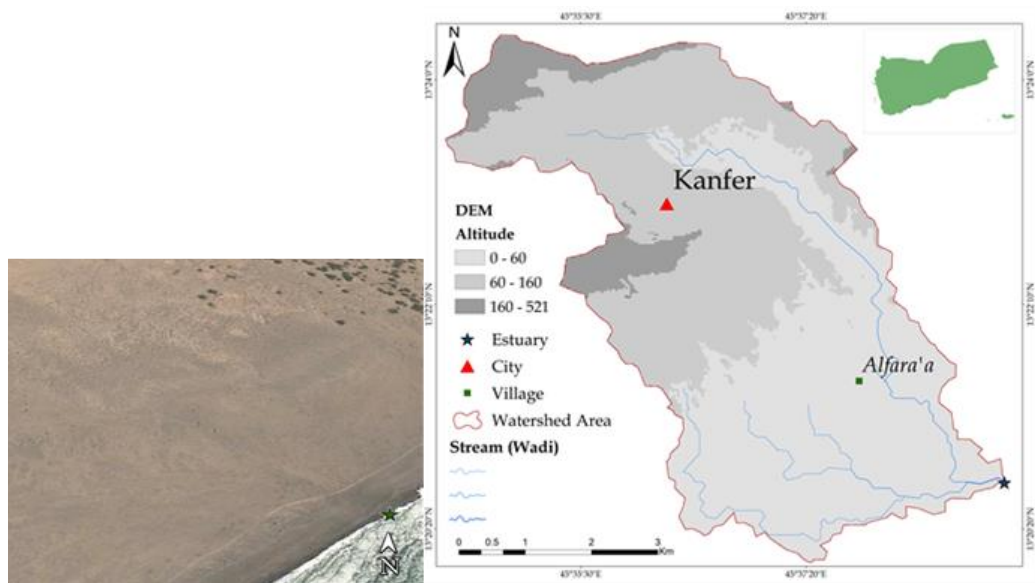


Figure 167. Oro-hydrographic Characteristics of Watershed: Karefa, Abyan (right) The satellite view of Alfara'a Estuary (2013) (left).

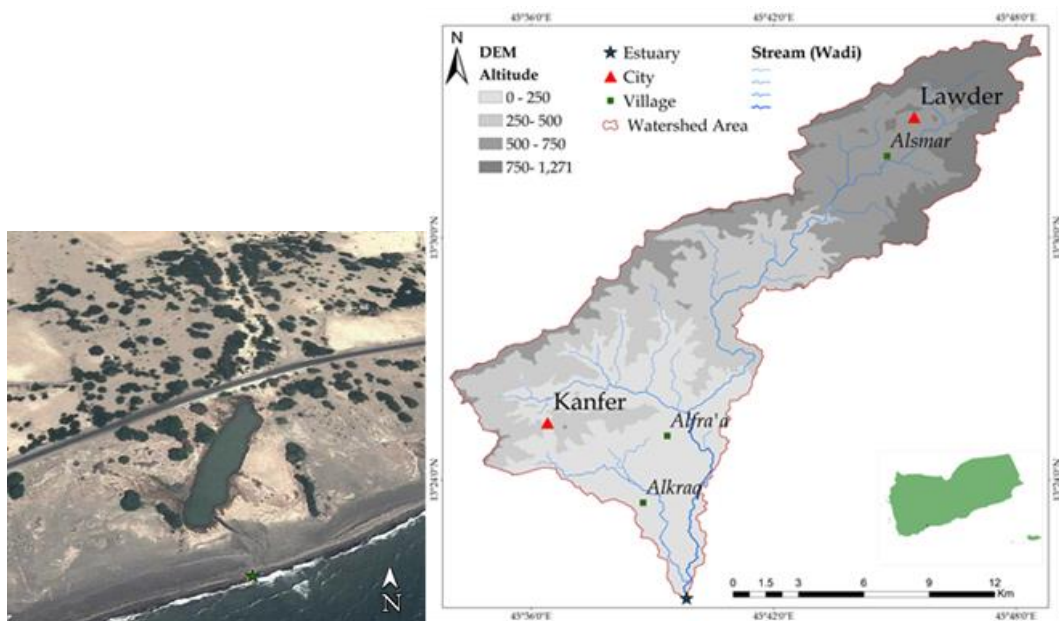


Figure 168. Oro-hydrographic Characteristics of Watershed: Mathwan, Abyan (right)& The satellite view of Alkraaq Estuary (2009) (left).

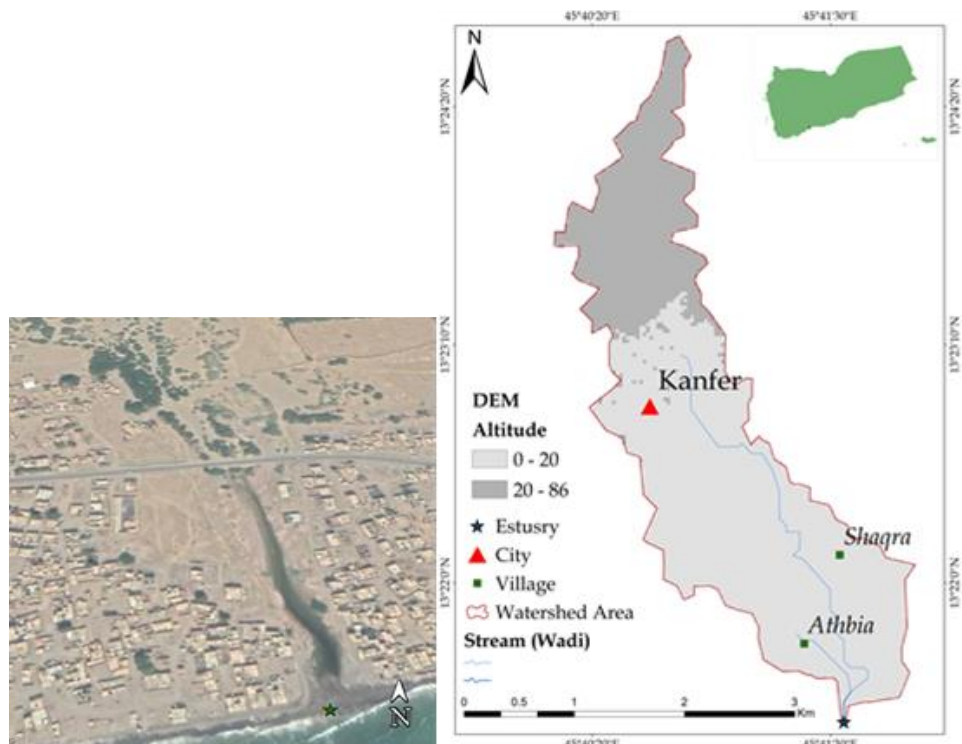


Figure 169. Oro-hydrographic Characteristics of Watershed: Alkraq, Abyan (right)& The satellite view of Athbia Estuary (2013) (left).

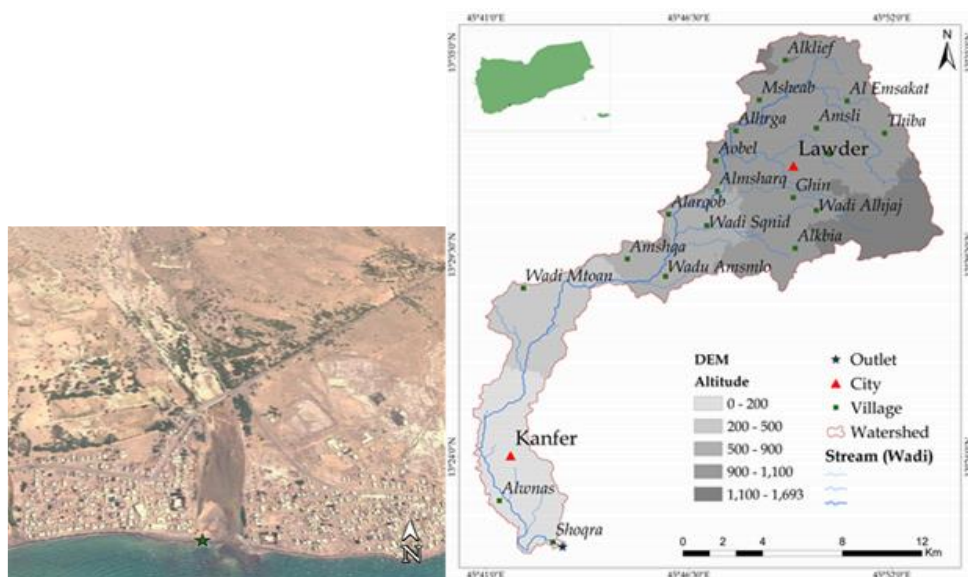


Figure 170. Oro-hydrographic Characteristics of Watershed: Gwada, Abyan (right)& The satellite view of Shuqrah Estuary (2010) (left).

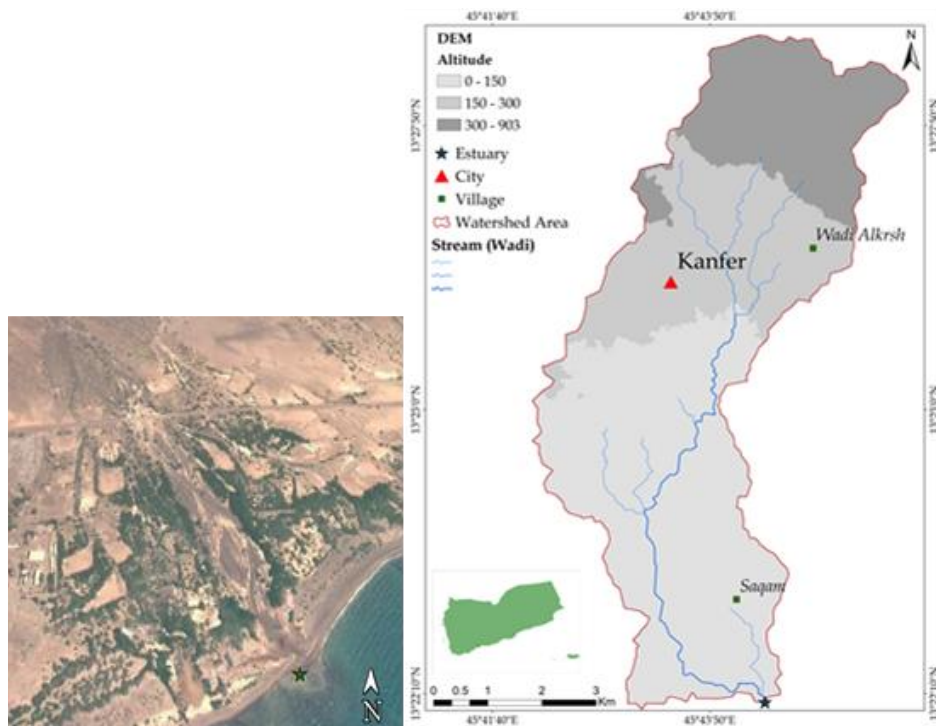


Figure 171. Oro-hydrographic Characteristics of Watershed: Ahmed, Abyan (right)& The satellite view of Saqam Estuary (2010) (left).

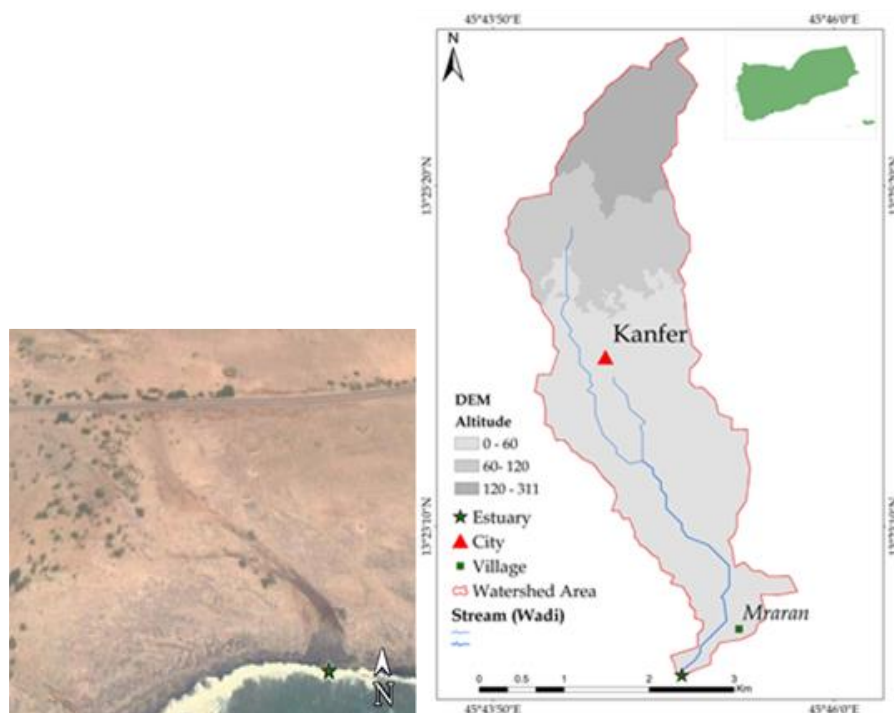


Figure 172. Oro-hydrographic Characteristics of Watershed: Alarqwb, Abyan (right)& The satellite view of Mraran Estuary (2005) (left).

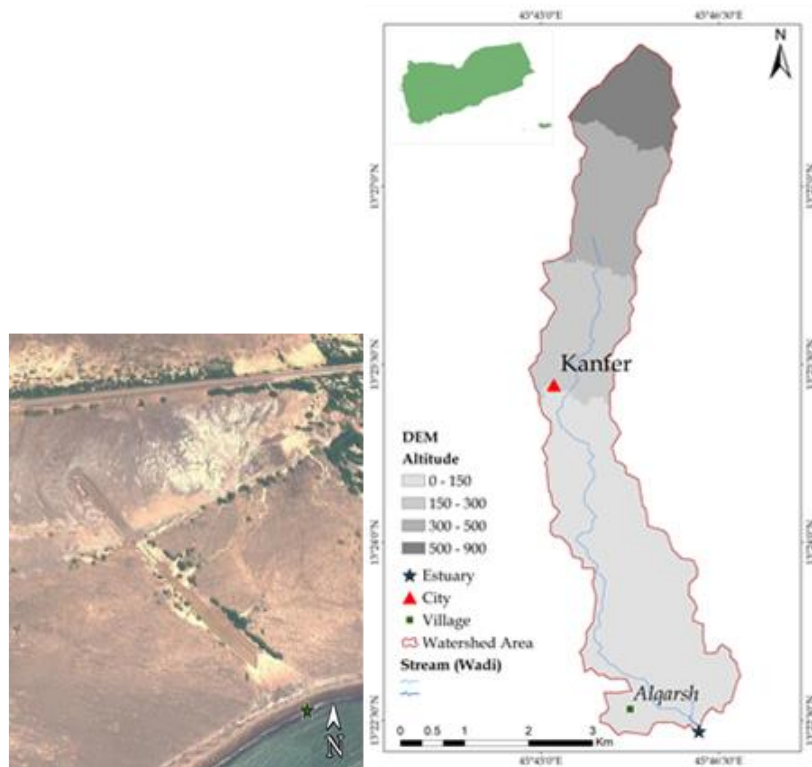


Figure 173. Oro-hydrographic Characteristics of Watershed: Alkersh, Abyan (right)& The satellite view of Alqarsh Estuary (2010) (left).

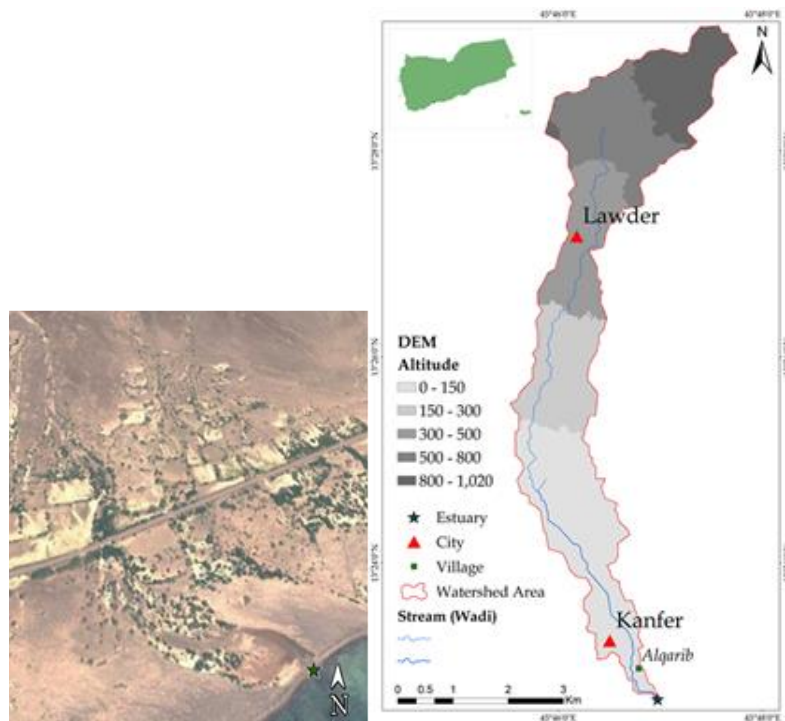


Figure 174. Oro-hydrographic Characteristics of Watershed: Saqnid, Abyan (right)& The satellite view of Alqarib Estuary (2010) (left).

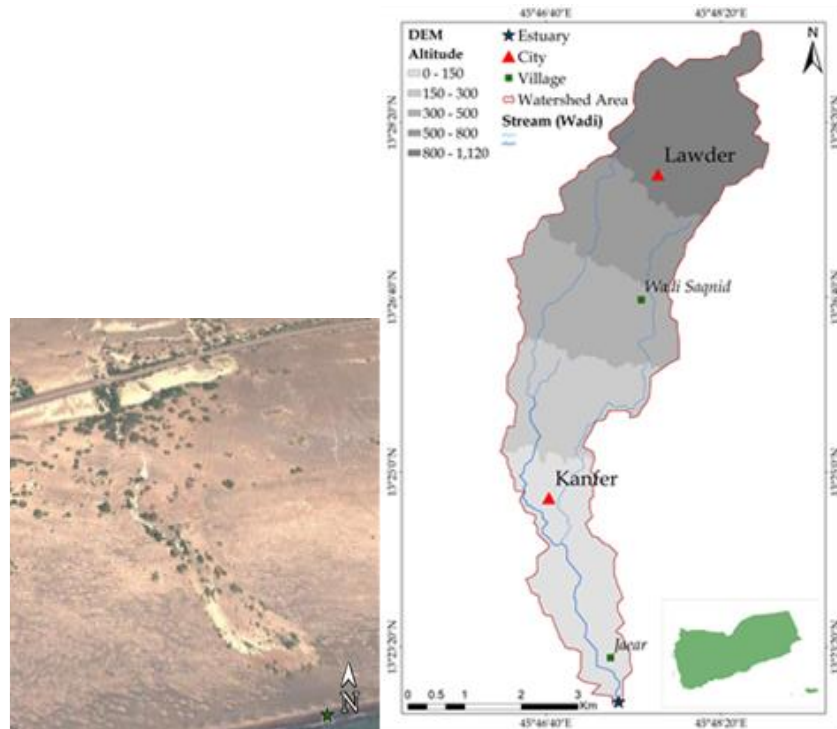


Figure 175. Oro-hydrographic Characteristics of Watershed: Almsheq, Abyan (right)& The satellite view of Jaear Estuary (2010) (left).

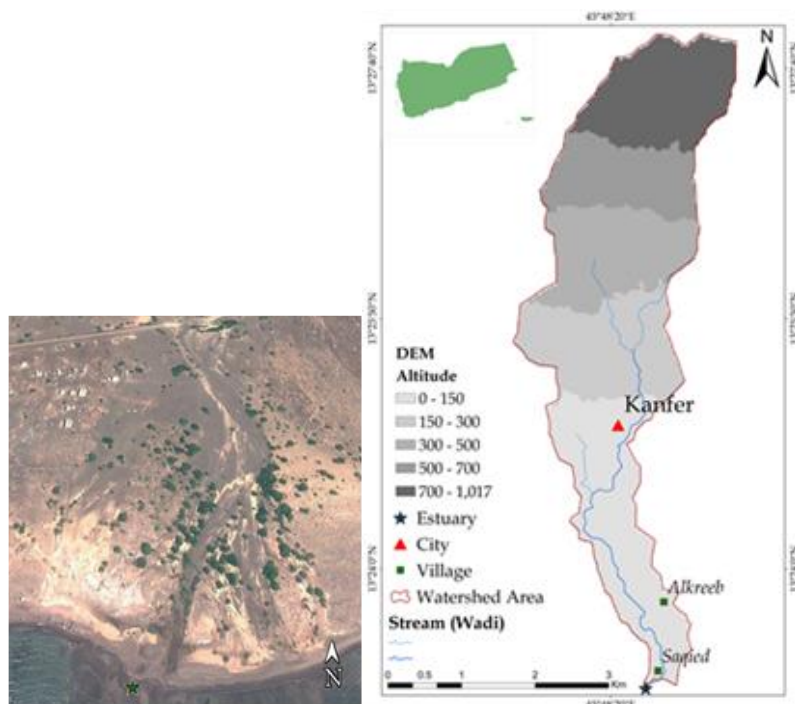


Figure 176. Oro-hydrographic Characteristics of Watershed: Alkbaia, Abyan (right)& The satellite view of Saqied Estuary (2010) (left).

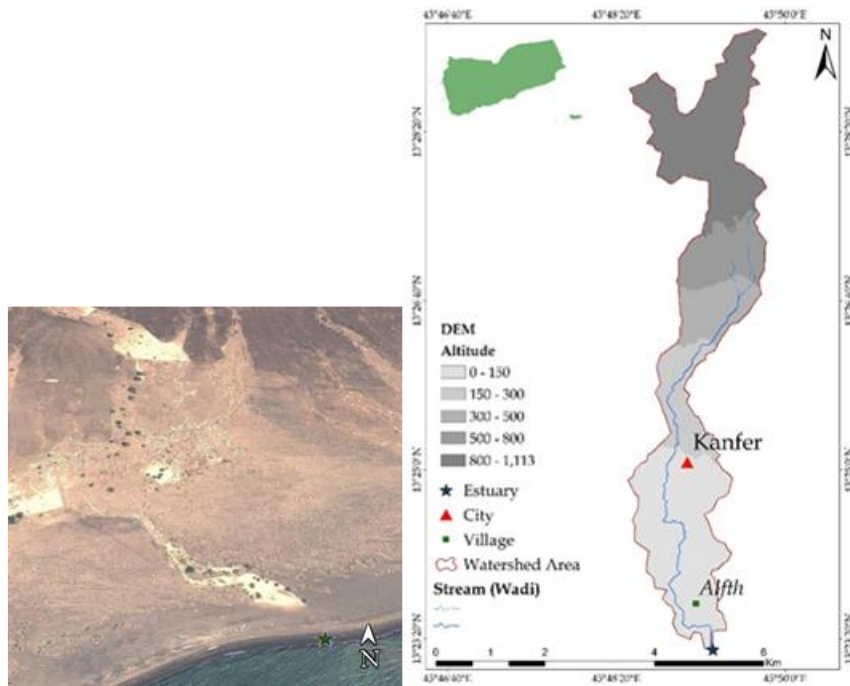


Figure 177. Oro-hydrographic Characteristics of Watershed: Ghein, Abyan (right)& The satellite view of Alfth Estuary (2010) (left).

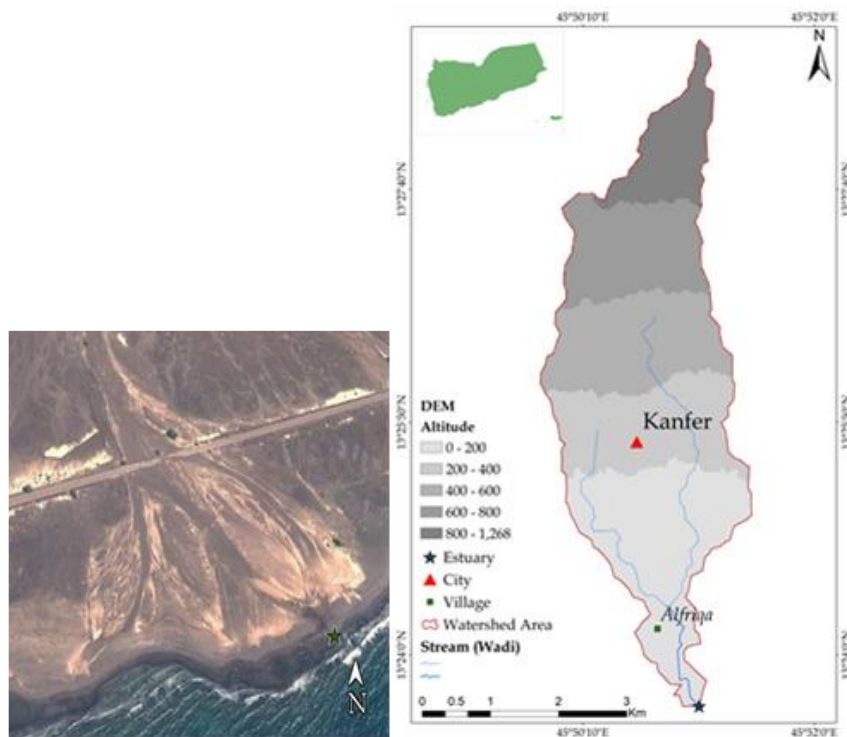


Figure 178. Oro-hydrographic Characteristics of Watershed: Alhajj, Abyan (right)& The satellite view of Alfriqa Estuary (2010) (left).

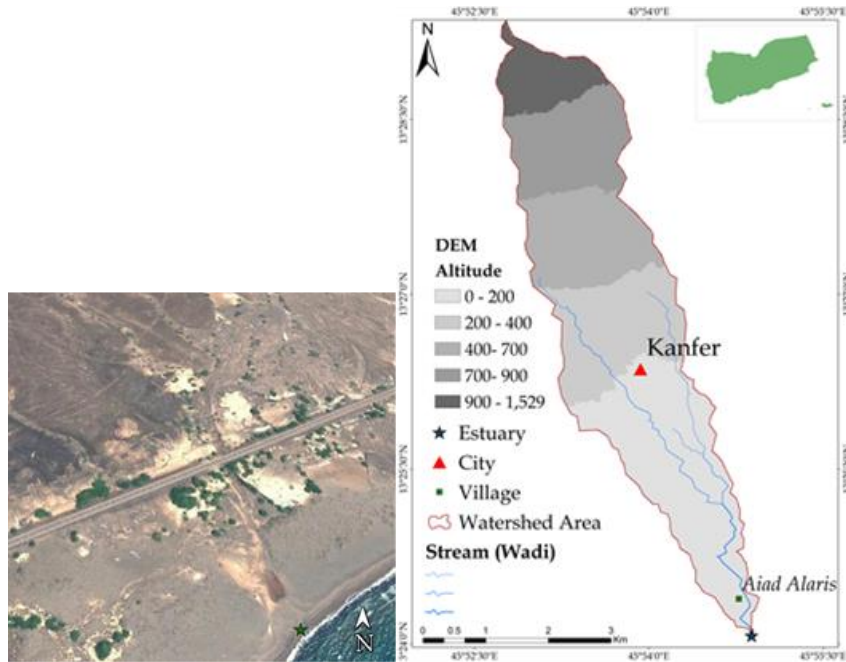


Figure 179. Oro-hydrographic Characteristics of Watershed: Amaeda, Abyan (right)& The satellite view of Aiad Alaries Estuary (2010) (left).

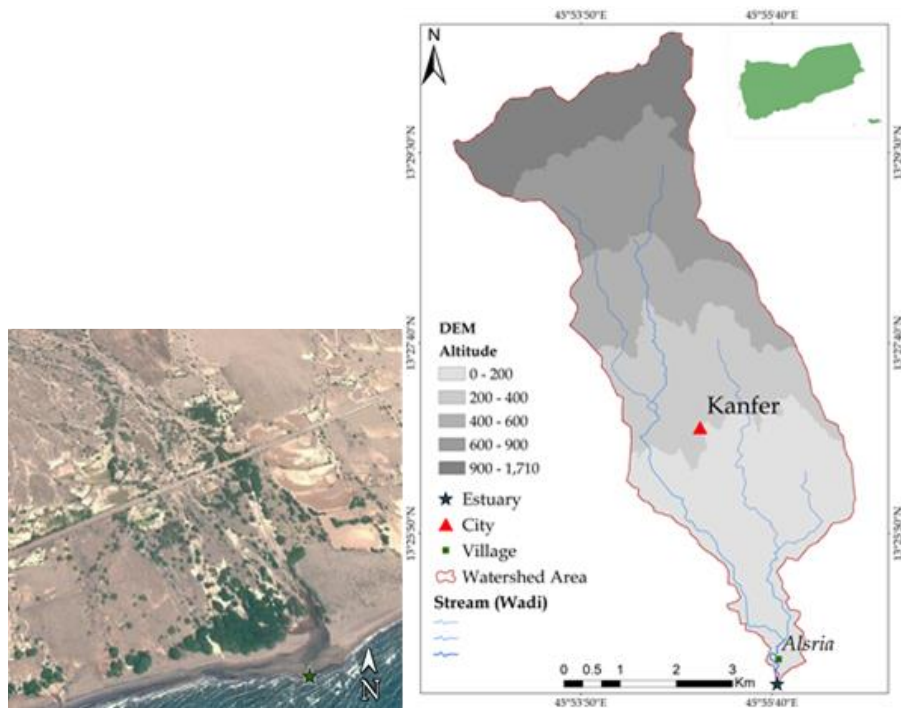


Figure 180. Oro-hydrographic Characteristics of Watershed: Alhmsa, Abyan (right)& The satellite view of Alsria Estuary (2010) (left).

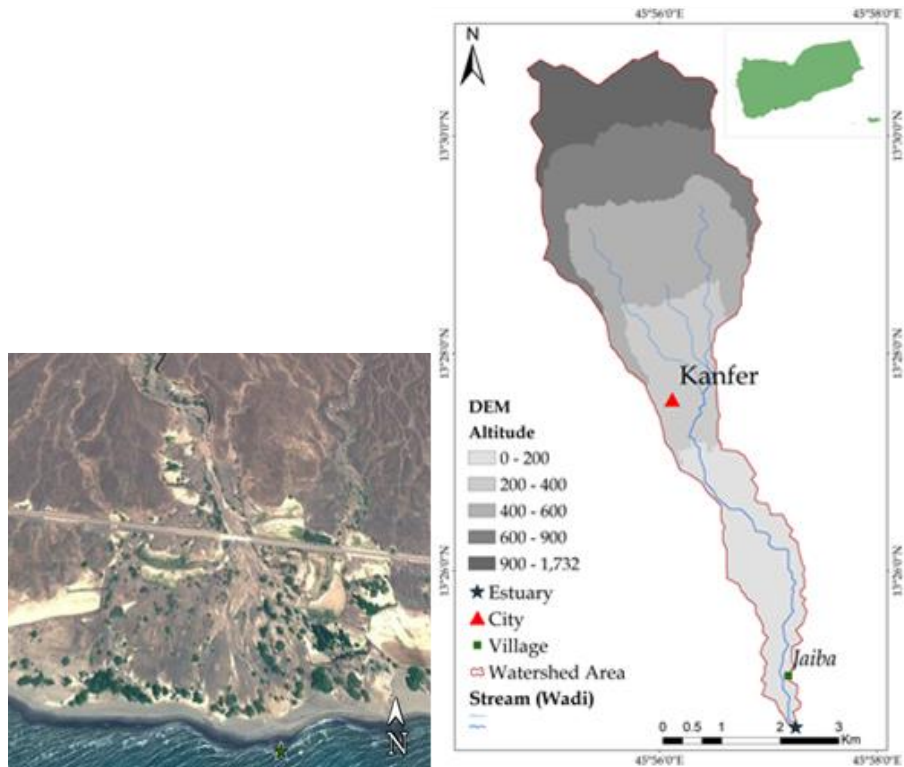


Figure 181. Oro-hydrographic Characteristics of Watershed: Zarha, Abyan (right)& The satellite view of Jaiba Estuary (2010) (left).

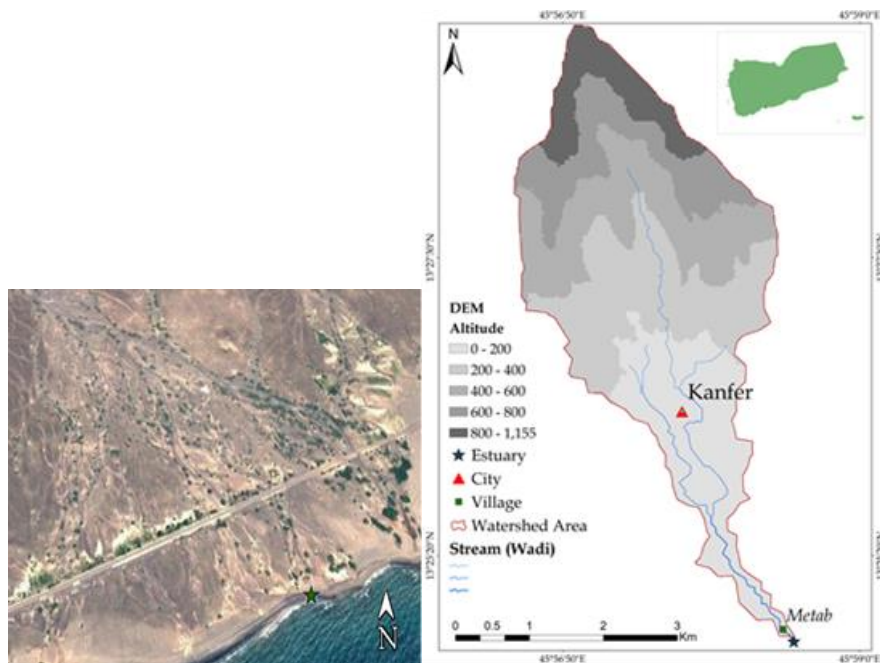


Figure 182. Oro-hydrographic Characteristics of Watershed: Metab, Abyan (right) The satellite view of Metab Estuary (2010) (left).

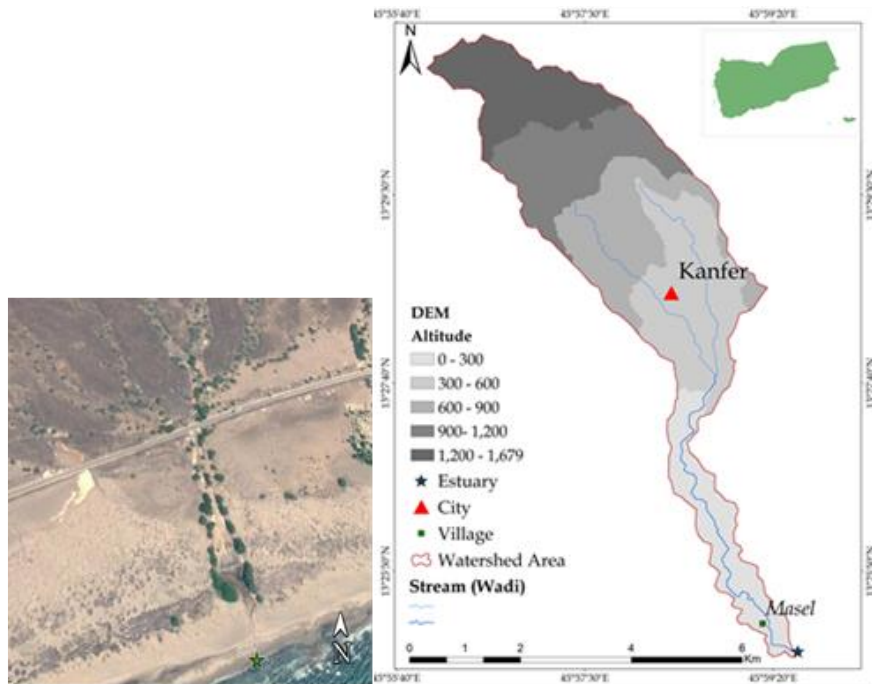


Figure 183. Oro-hydrographic Characteristics of Watershed: Meska'a, Abyan (right)& The satellite view of Masel Estuary (2010) (left).

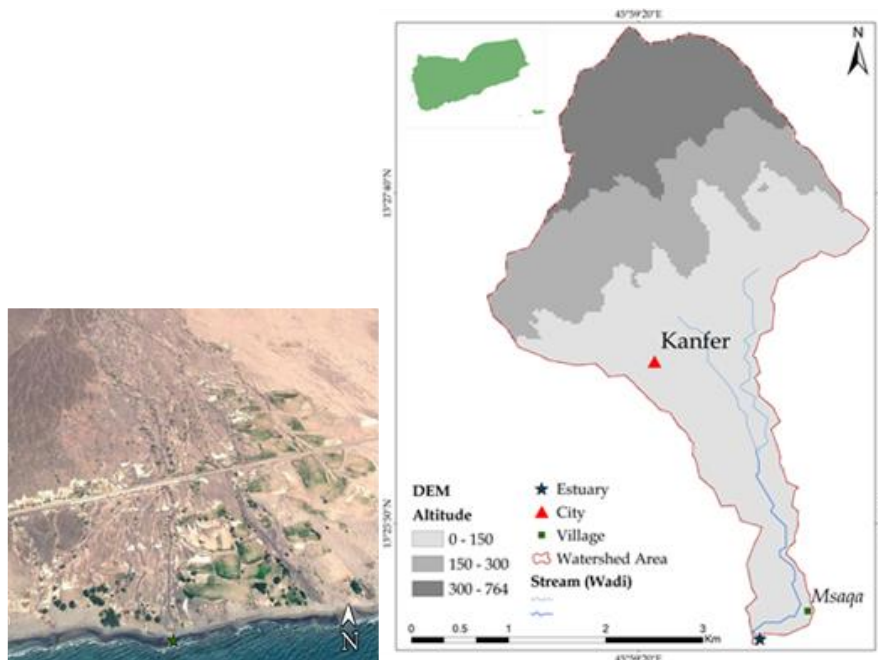


Figure 184. Oro-hydrographic Characteristics of Watershed: Aran, Abyan (right)& The satellite view of Msaga Estuary (2010) (left).

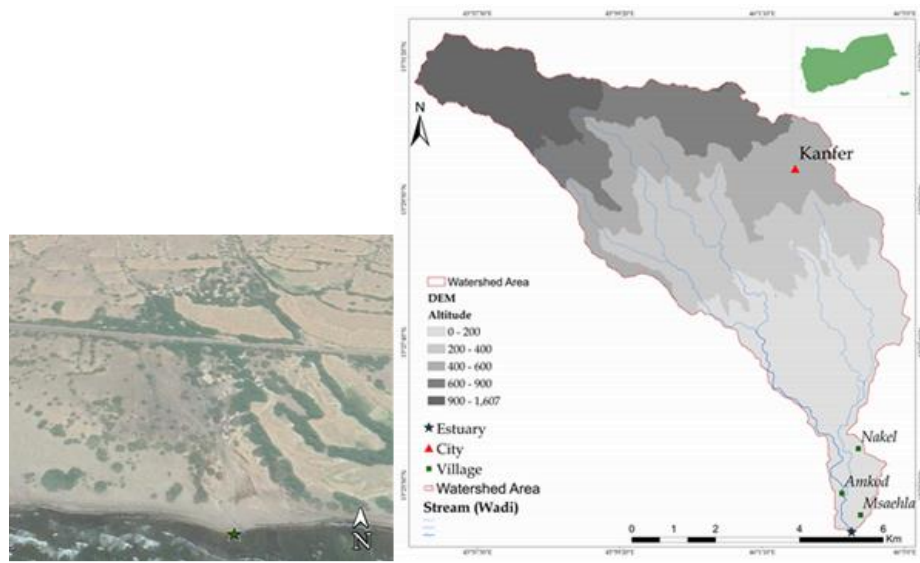


Figure 185. Oro-hydrographic Characteristics of Watershed: Saeida, Abyan (right)& The satellite view of Msaehla Estuary (2019) (left).

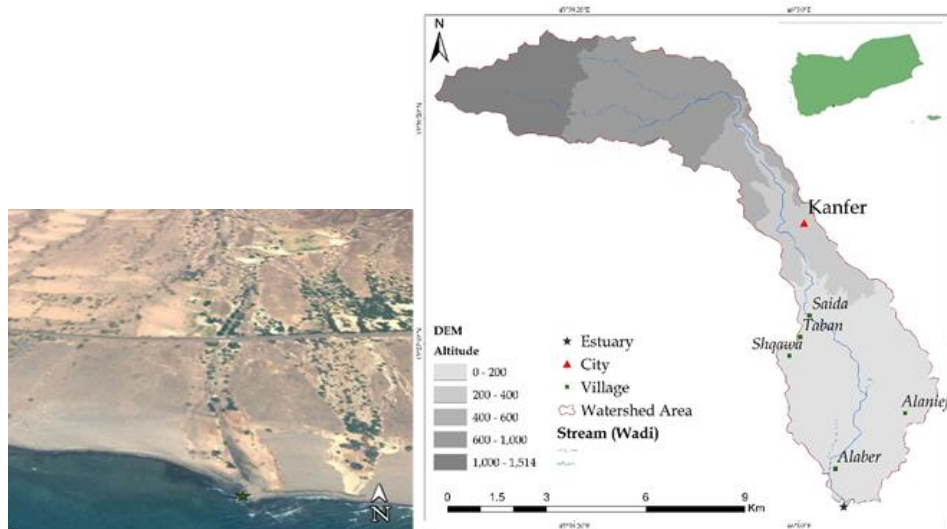


Figure 186. Oro-hydrographic Characteristics of Watershed: Jaear, Abyan (right)& The satellite view of Alaber Estuary (2010) (left).

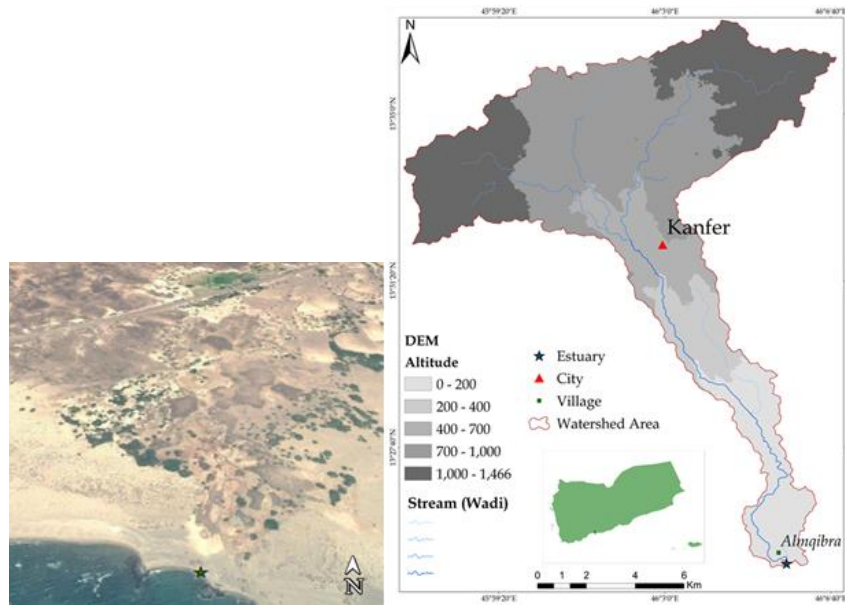


Figure 187. Oro-hydrographic Characteristics of Watershed: Alsnief, Abyan (right)& The satellite view of Almqibra Estuary (2010) (left).

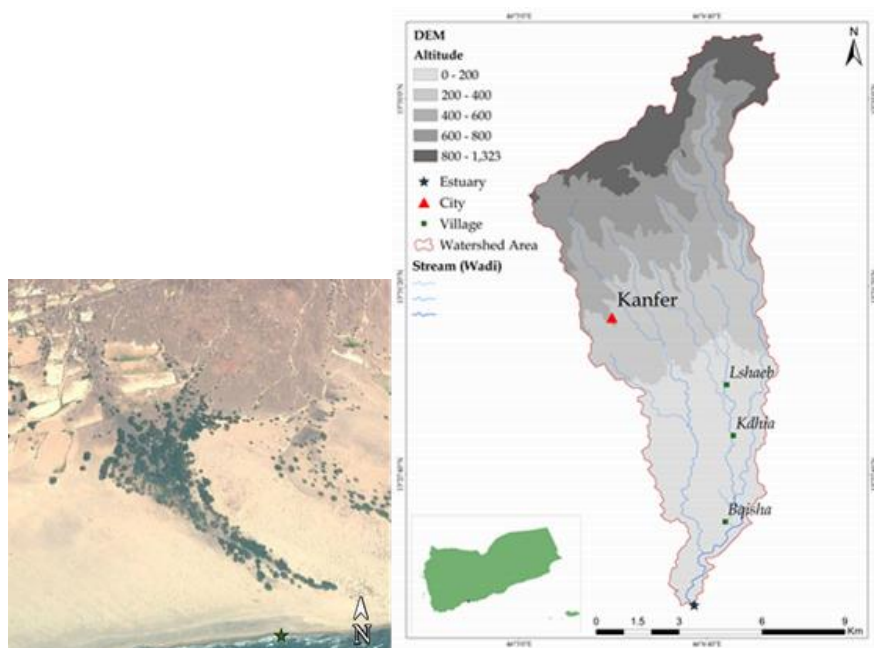


Figure 188. Oro-hydrographic Characteristics of Watershed: Alnsil, Abyan (right)& The satellite view of Bqisha Estuary (2010) (left).

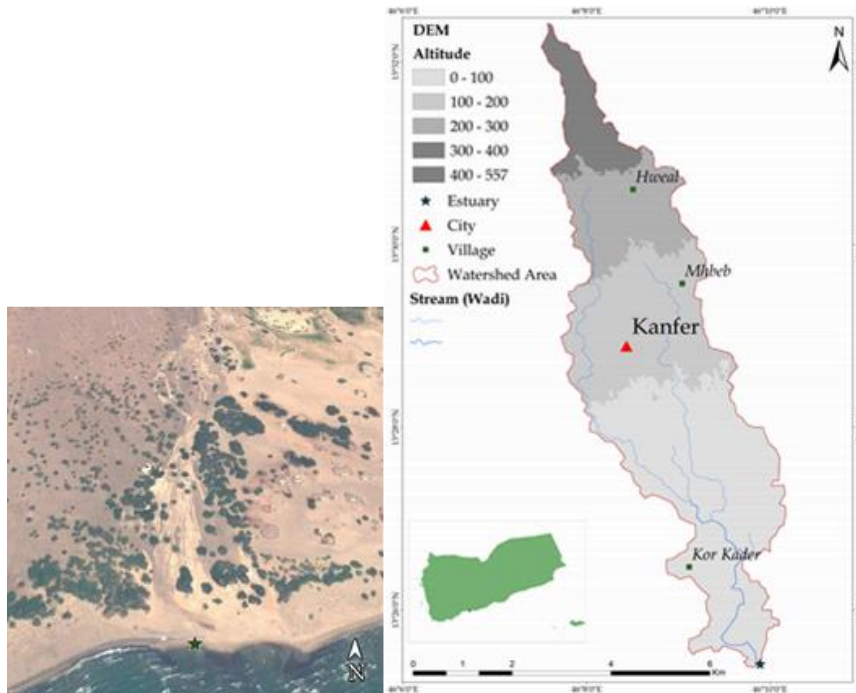


Figure 189. Oro-hydrographic Characteristics of Watershed: Hawel, Abyan (right)& The satellite view of Kor Kader Estuary (2009) (left).

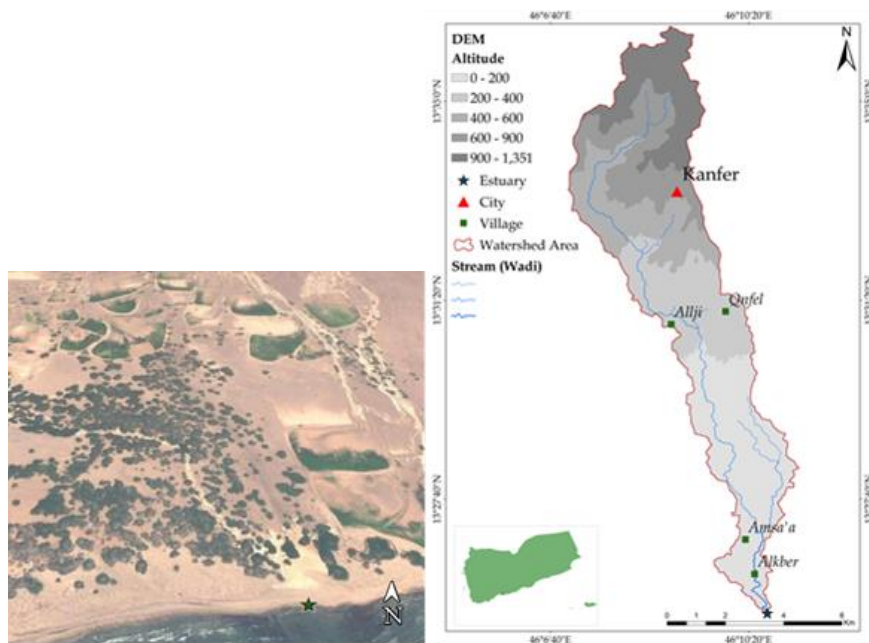


Figure 190. Oro-hydrographic Characteristics of Watershed: Qanfel, Abyan (right)& The satellite view of Alkber Estuary (2009) (left).

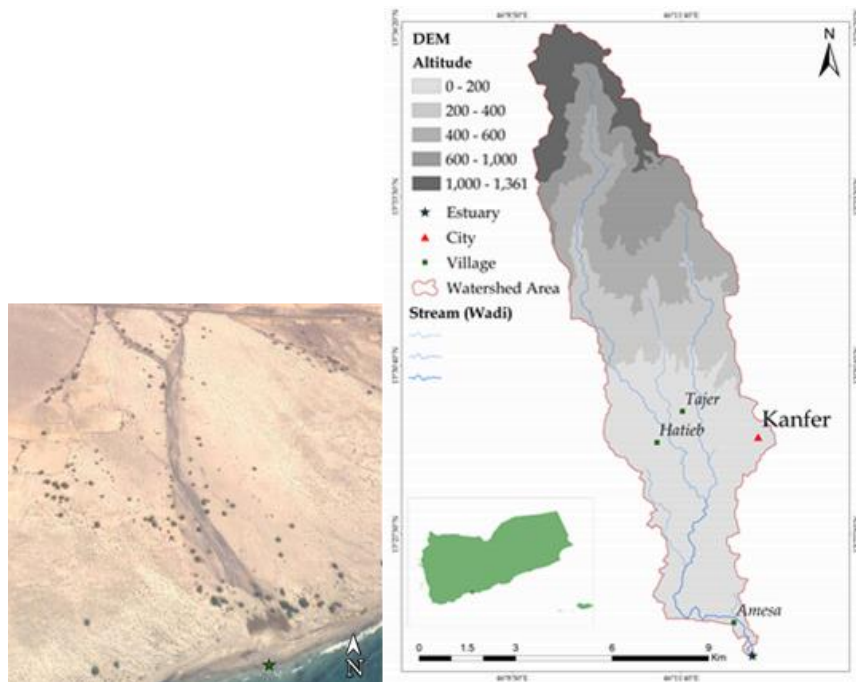


Figure 191. Oro-hydrographic Characteristics of Watershed: Tager, Abyan (right) & The satellite view of Amesha Estuary (2003) (left).

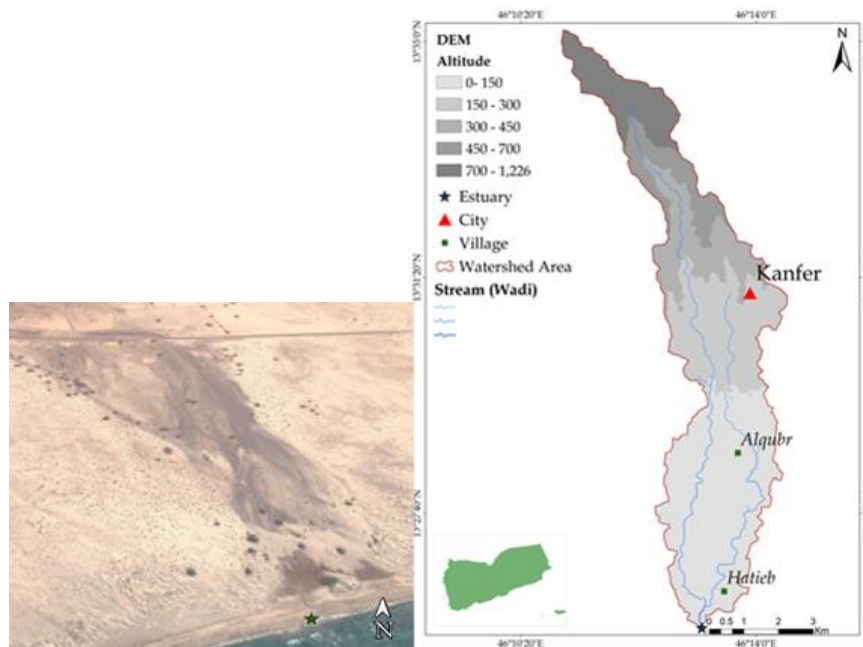


Figure 192. Oro-hydrographic Characteristics of Watershed: Hatieb, Abyan (right) & The satellite view of Hateib Estuary (2003) (left).

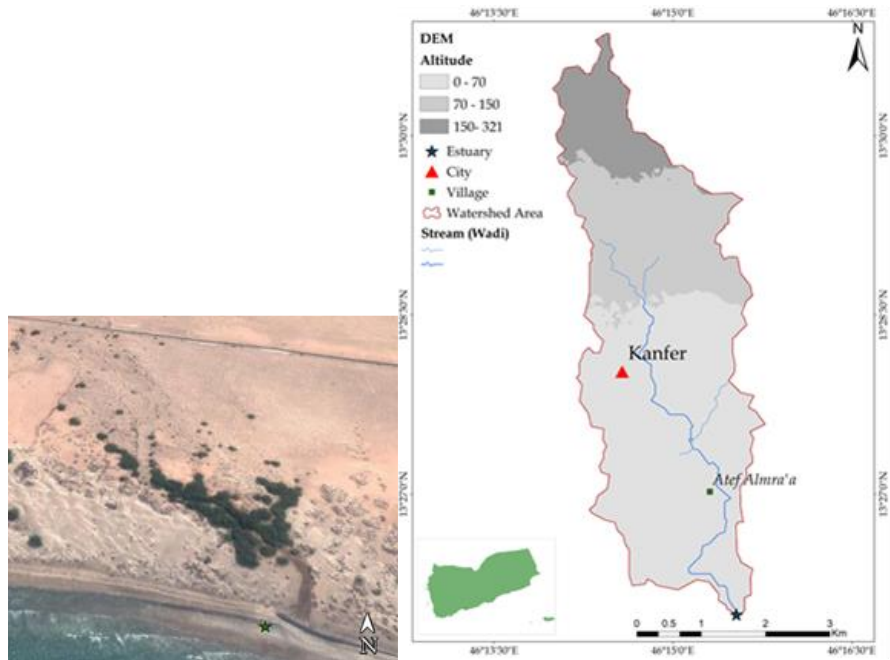


Figure 193. Oro-hydrographic Characteristics of Watershed: Sabia, Abyan (right)& The satellite view of Atf Almra'a Estuary (2003) (left).

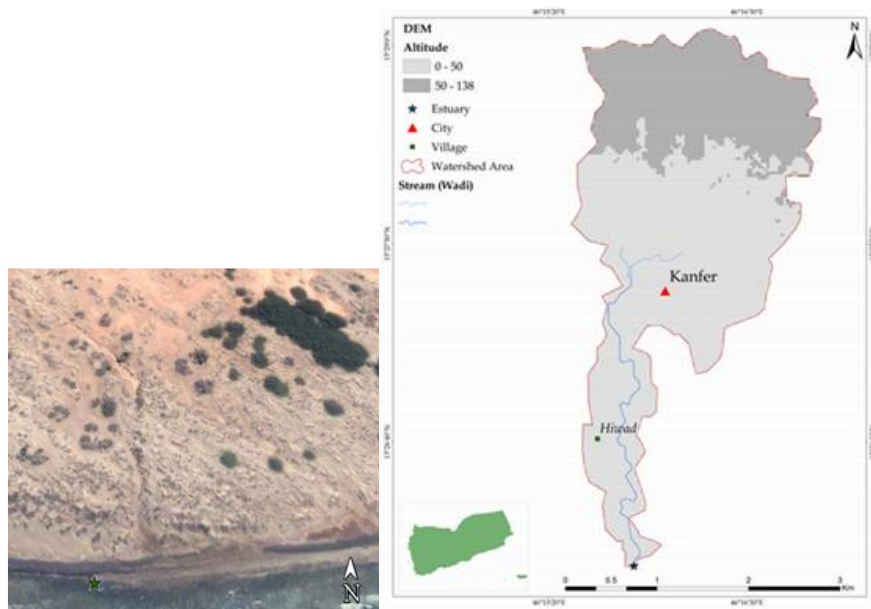


Figure 194. Oro-hydrographic Characteristics of Watershed: Lated, Abyan (right)& The satellite view of Hiwad Estuary (2003) (left).

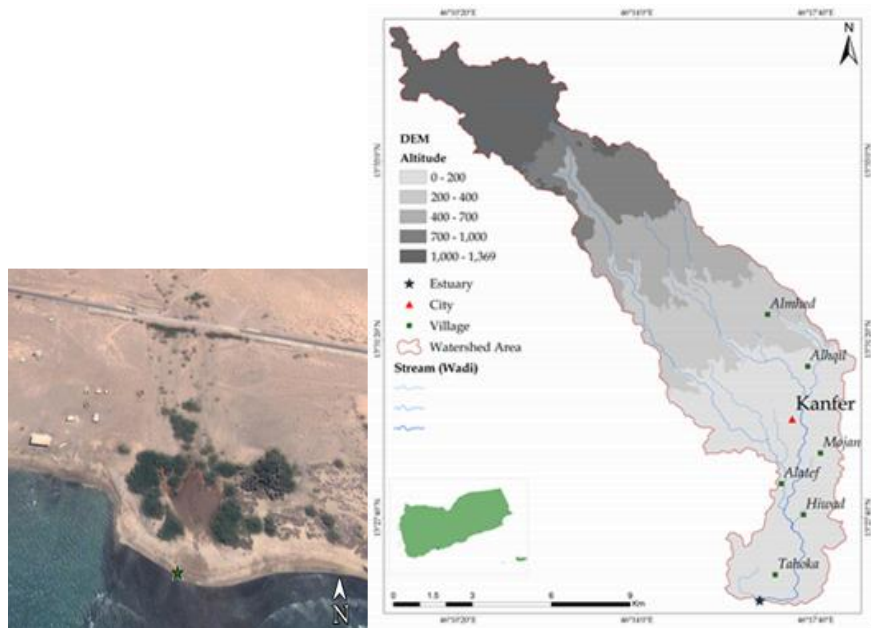


Figure 195. Oro-hydrographic Characteristics of Watershed: Alhaqil, Abyan (right) The satellite view of Tahoka Estuary (2003) (left).

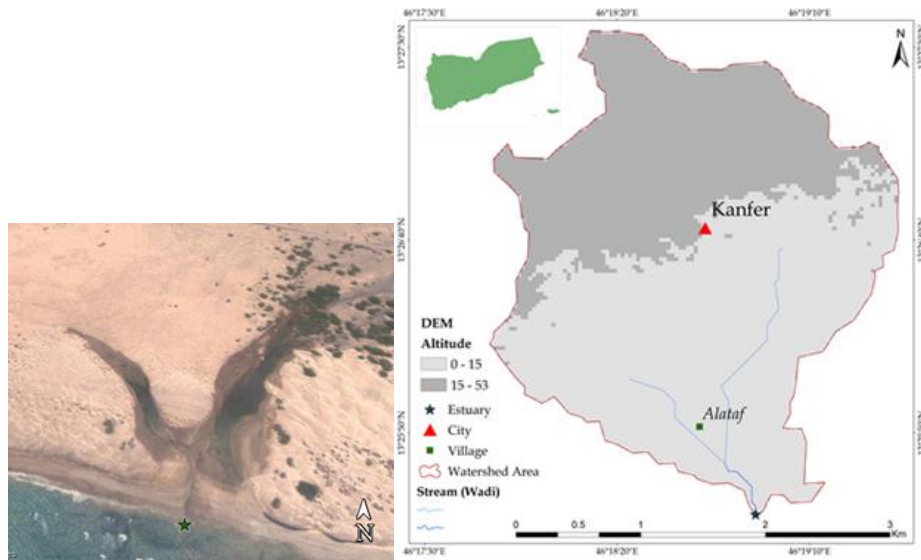


Figure 196. Oro-hydrographic Characteristics of Watershed: Almehd, Abyan (right) & The satellite view of Alataf Estuary (2003) (left).

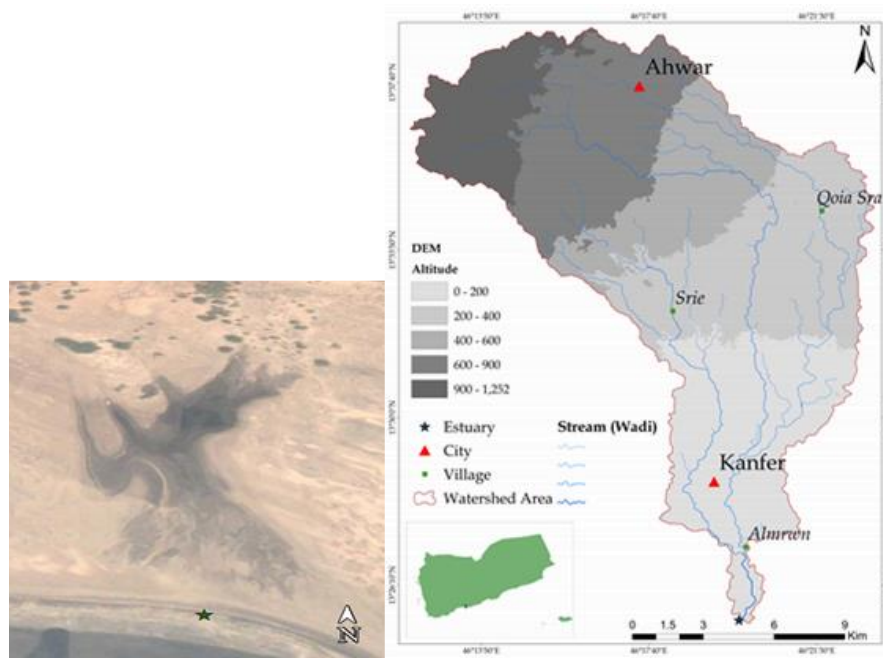


Figure 197. Oro-hydrographic Characteristics of Watershed: Mileh, Abyan (right)& The satellite view of Almrwan Estuary (2005) (left).

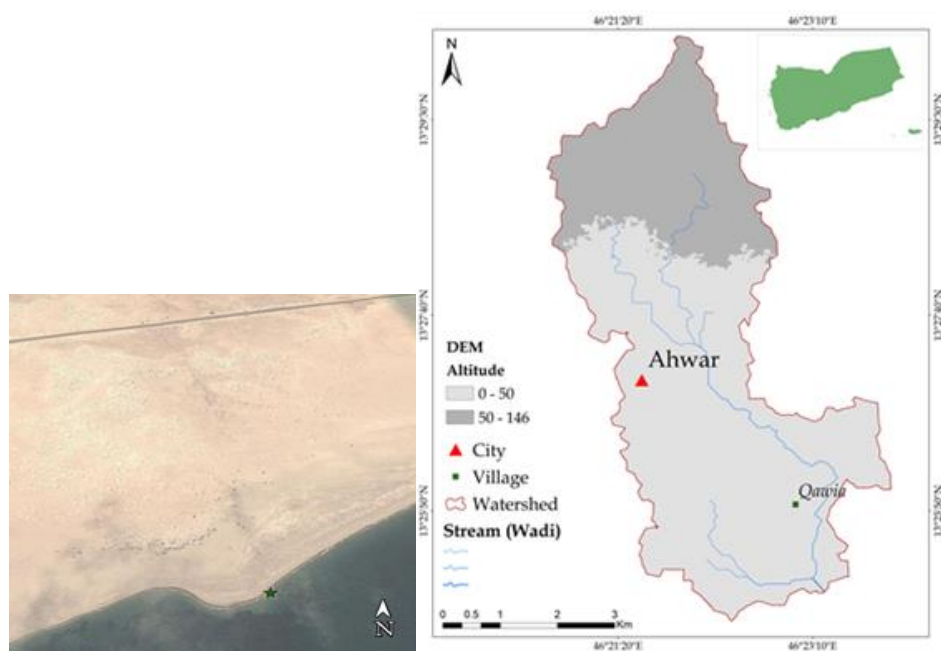


Figure 198. Oro-hydrographic Characteristics of Watershed: Seari, Abyan (right)& The satellite view of Qawia Estuary (2009) (left).

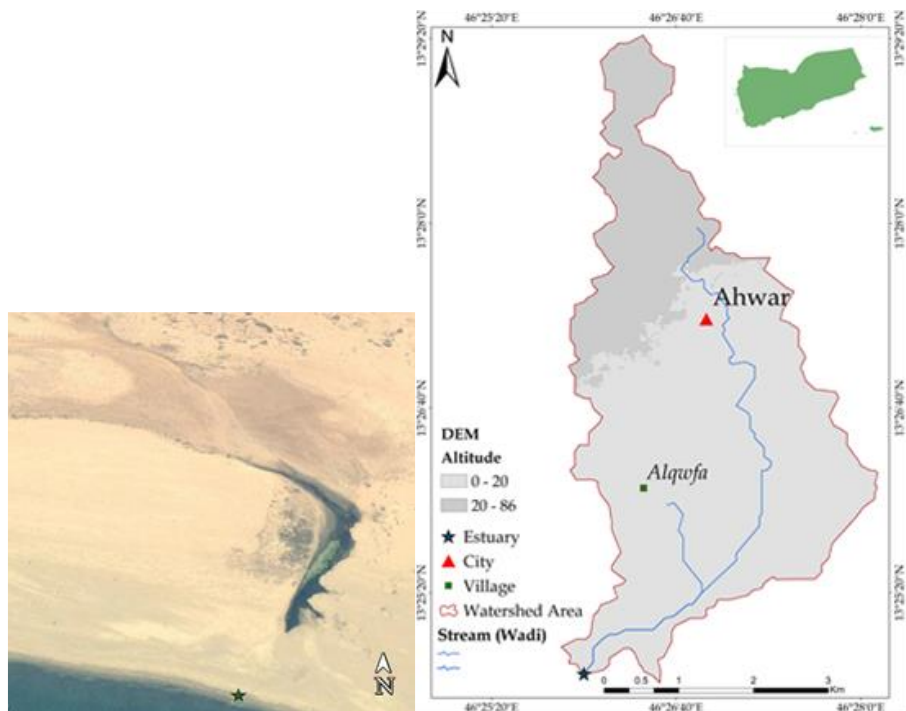


Figure 199. Oro-hydrographic Characteristics of Watershed: Qawia, Abyan (right)& The satellite view of Lawel Estuary (2005) (left).

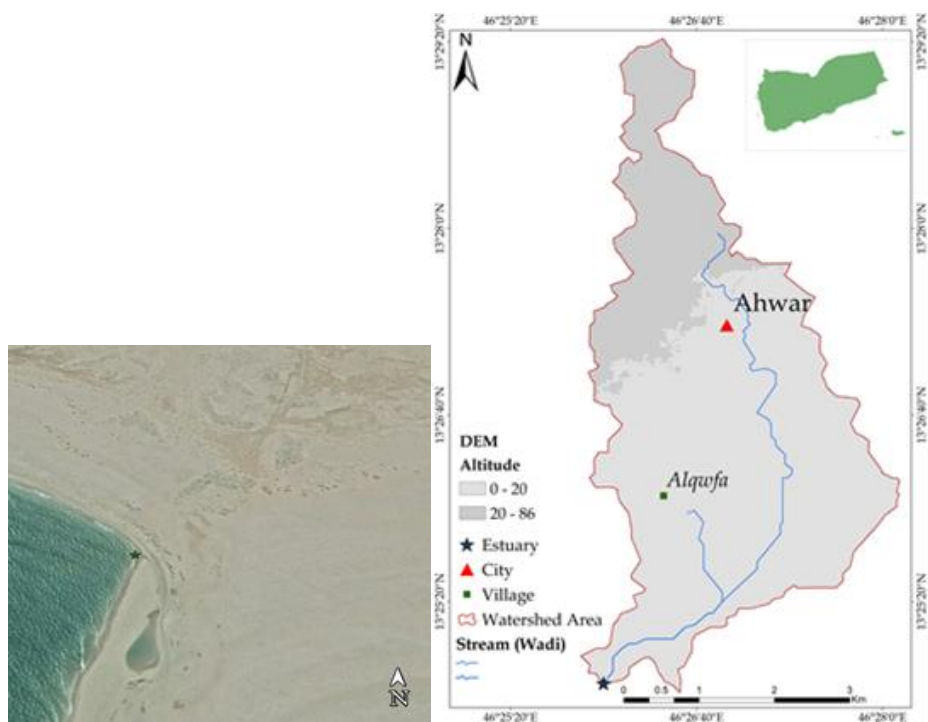


Figure 200. Oro-hydrographic Characteristics of Watershed: Kwera, Abyan (right)& The satellite view of Algwfa Estuary (2019) (left).

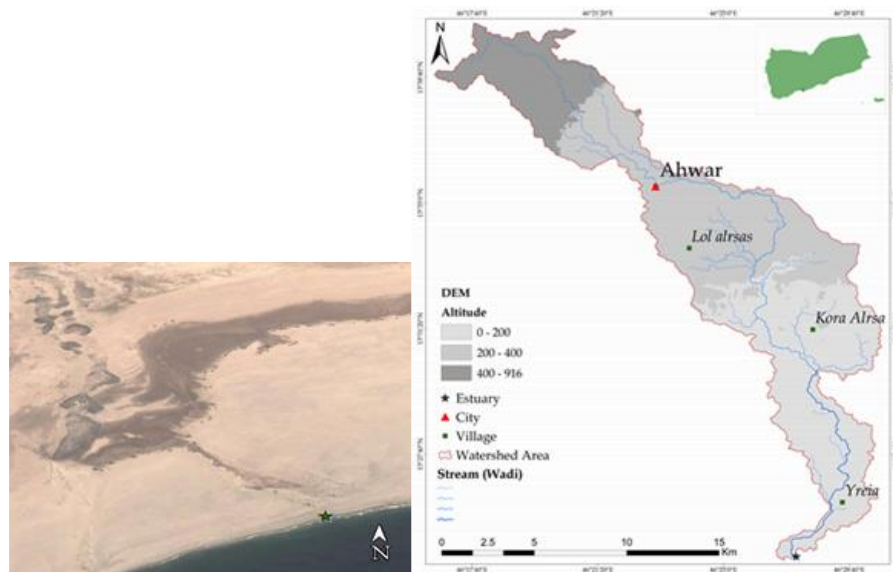


Figure 201. Oro-hydrographic Characteristics of Watershed: Sabia, Abyan (right)& The satellite view of Yreia Estuary (2012) (left).

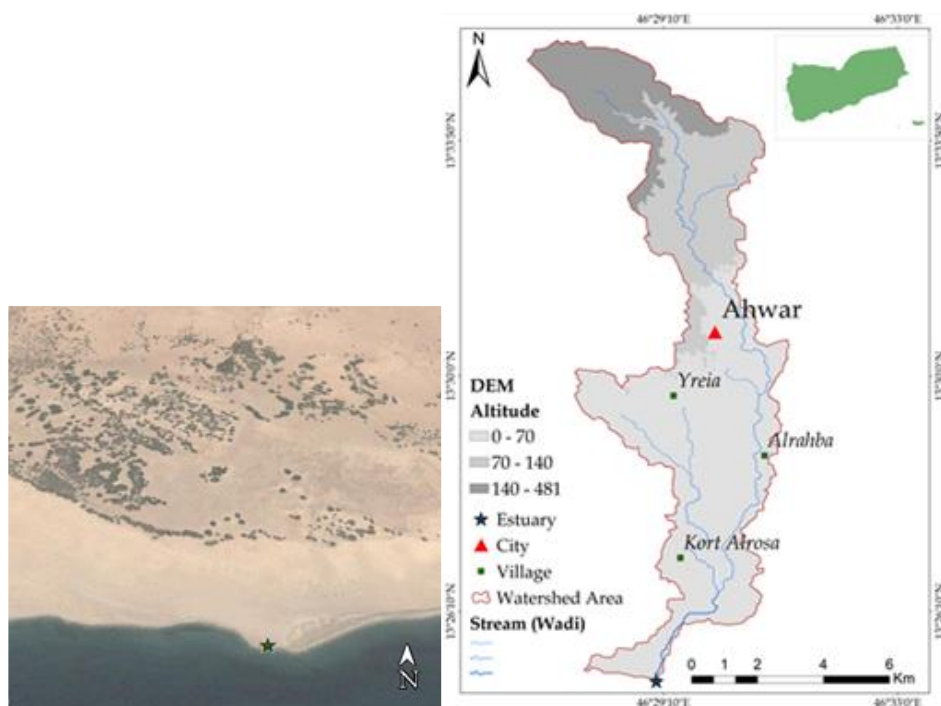


Figure 202. Oro-hydrographic Characteristics of Watershed: Teaba, Abyan (right)& The satellite view of Kert Alrosa Estuary (2013) (left).

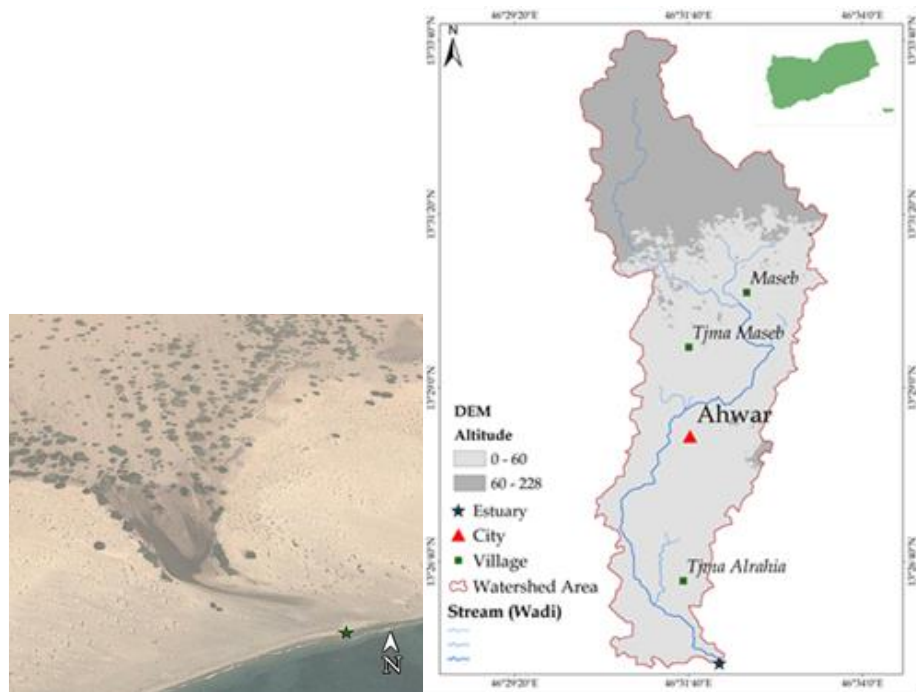


Figure 203. Oro-hydrographic Characteristics of Watershed: Maseb, Abyan (right)& The satellite view of Tjma Alrahia Estuary (2013) (left).

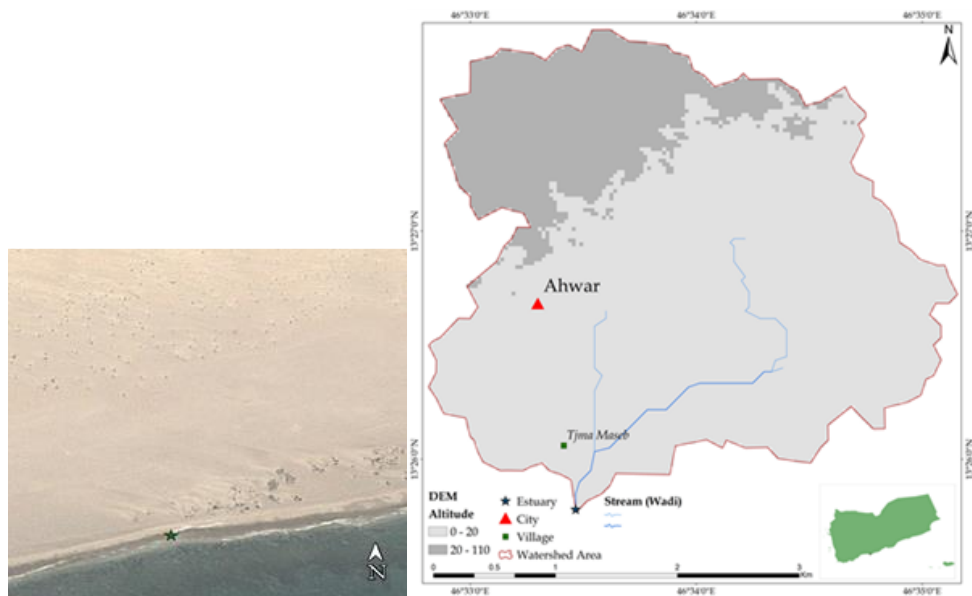


Figure 204. Oro-hydrographic Characteristics of Watershed: Alrmah, Abyan (right)& The satellite view of Tjma Maseb Estuary (2013) (left).

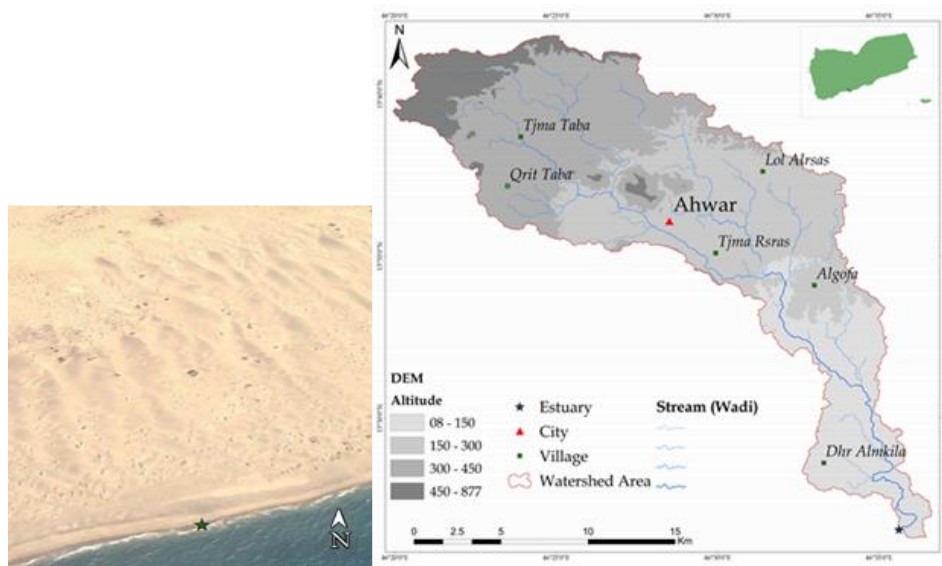


Figure 205. Oro-hydrographic Characteristics of Watershed: Alrasas, Abyan (right)& The satellite view of Dhr Almkila Estuary (2009) (left).

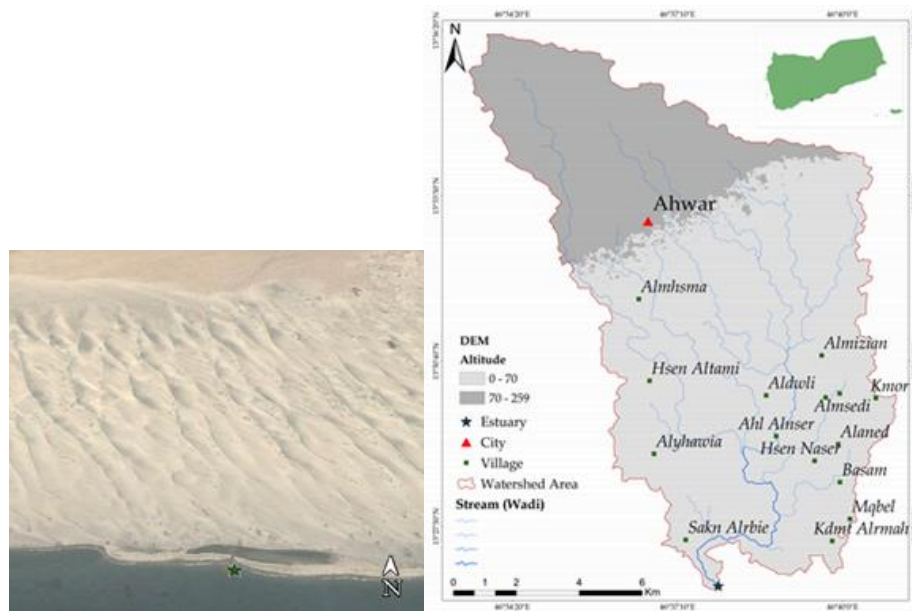


Figure 206. Oro-hydrographic Characteristics of Watershed: Almah, Abyan (right)& The satellite view of Sakn Alrbie Estuary (2013) (left).

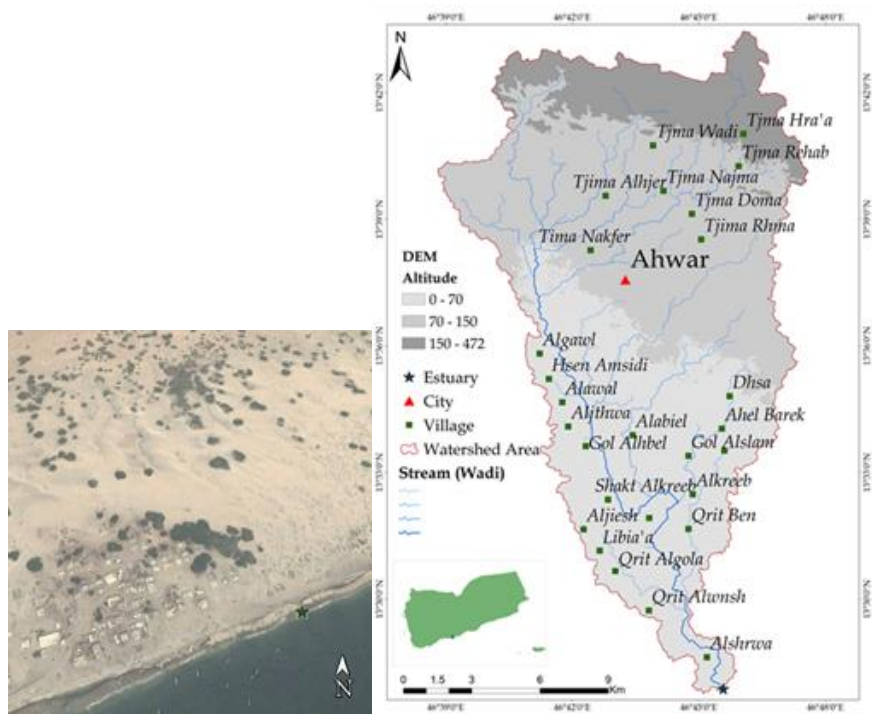


Figure 207. Oro-hydrographic Characteristics of Watershed: Alkreib, Abyan (right)& The satellite view of Alshrwa Estuary (2013) (left).

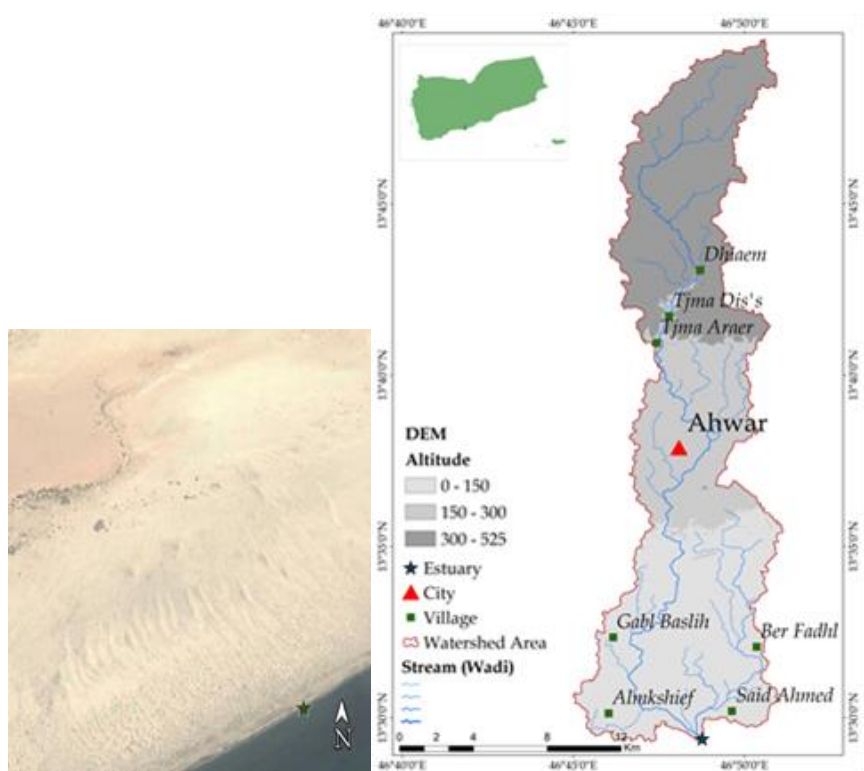


Figure 208. Oro-hydrographic Characteristics of Watershed: Almqfsh, Abyan (right)& The satellite view of Said Ahmed Estuary (2013) (left).

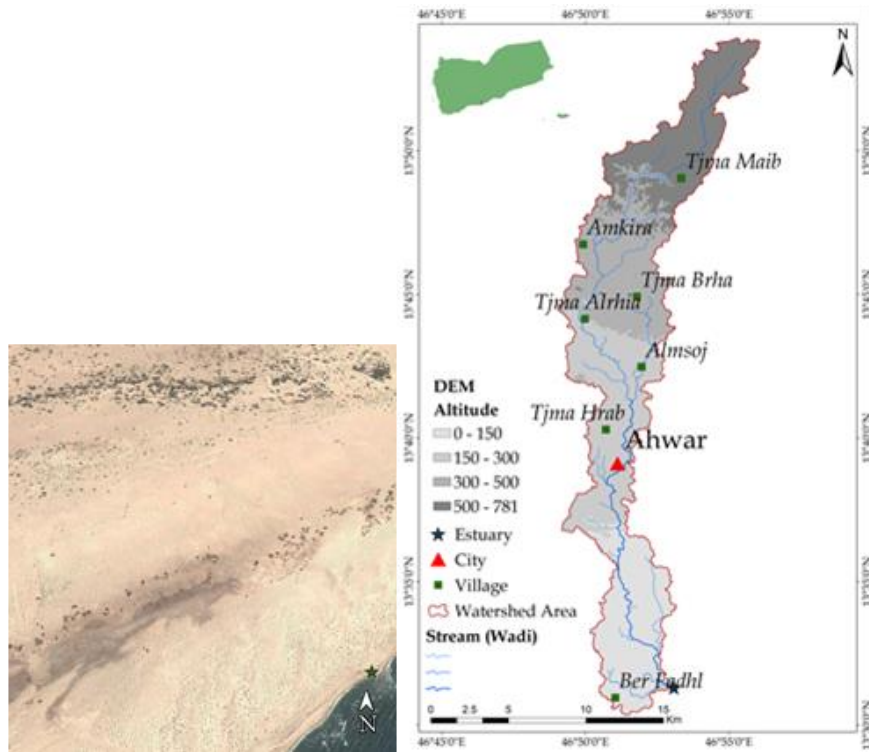


Figure 209. Oro-hydrographic Characteristics of Watershed: Aara, Abyan (right)& The satellite view of Ber Fadhl Estuary (2012) (left).

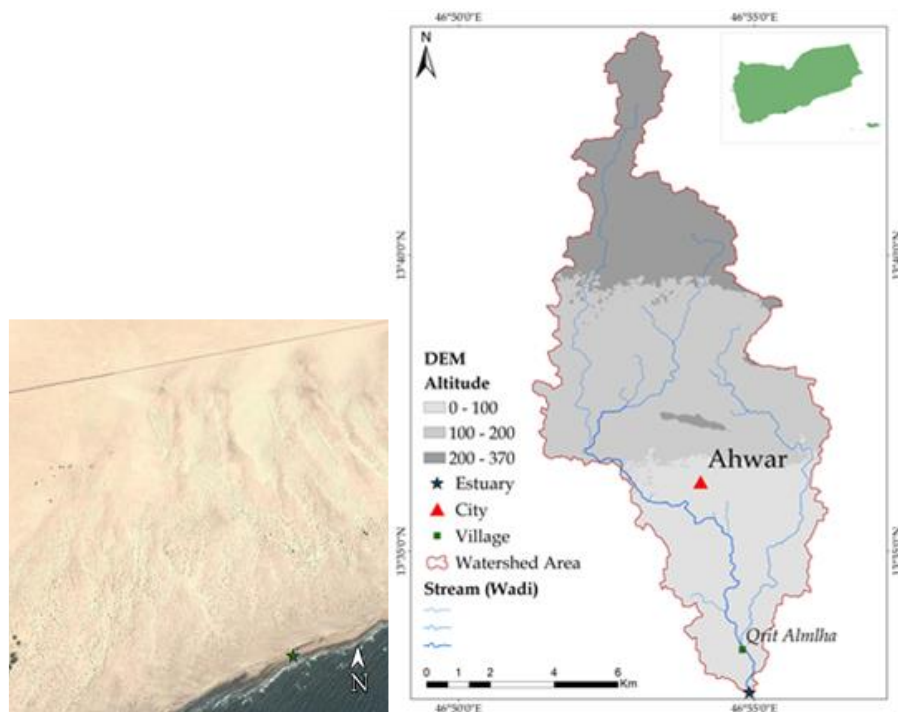


Figure 210. Oro-hydrographic Characteristics of Watershed: Baier, Abyan (right)& The satellite view of Qrit Almlha Estuary (2012) (left).

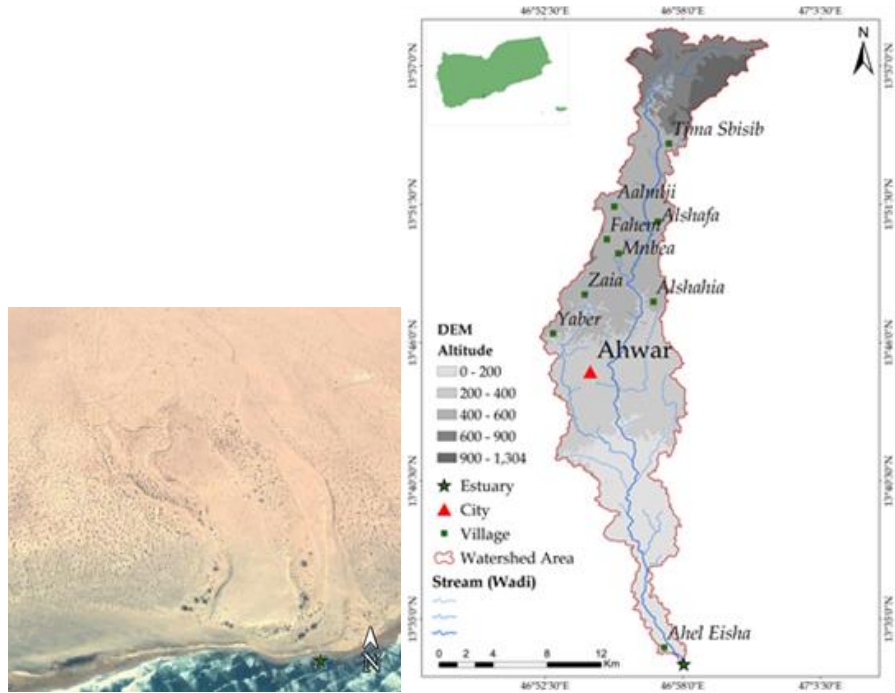


Figure 211. Oro-hydrographic Characteristics of Watershed: Alshaqa, Abyan (right)& The satellite view of Ahel Eisha Estuary (2009) (left).

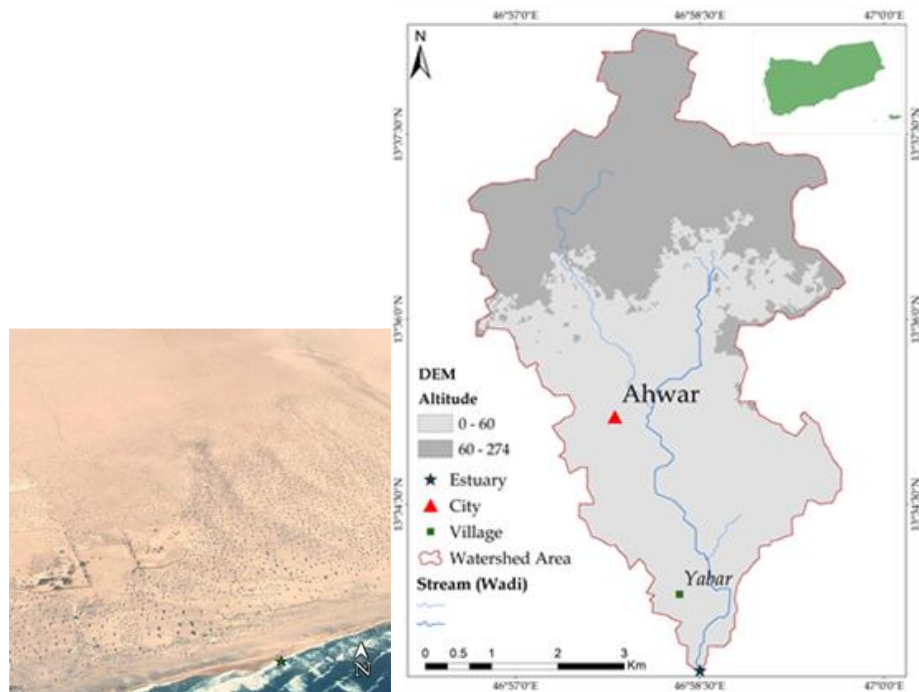


Figure 212. Oro-hydrographic Characteristics of Watershed: Manea, Abyan (right)& The satellite view of Yabar Estuary (2009) (left).

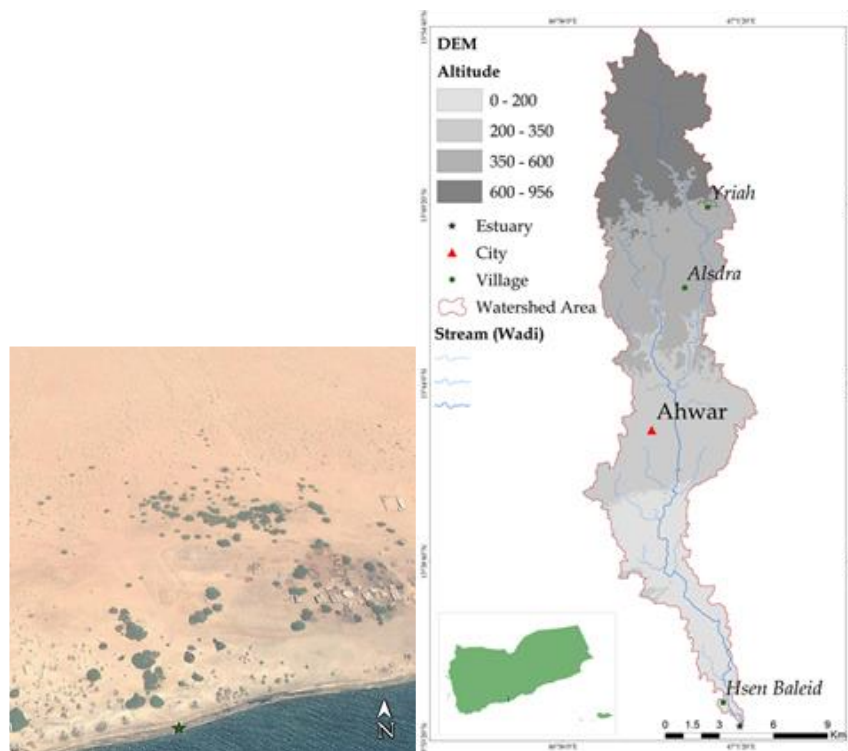


Figure 213. Oro-hydrographic Characteristics of Watershed: Moasea, Abyan (right)& The satellite view of Hsen Baleid Estuary (2009) (left).

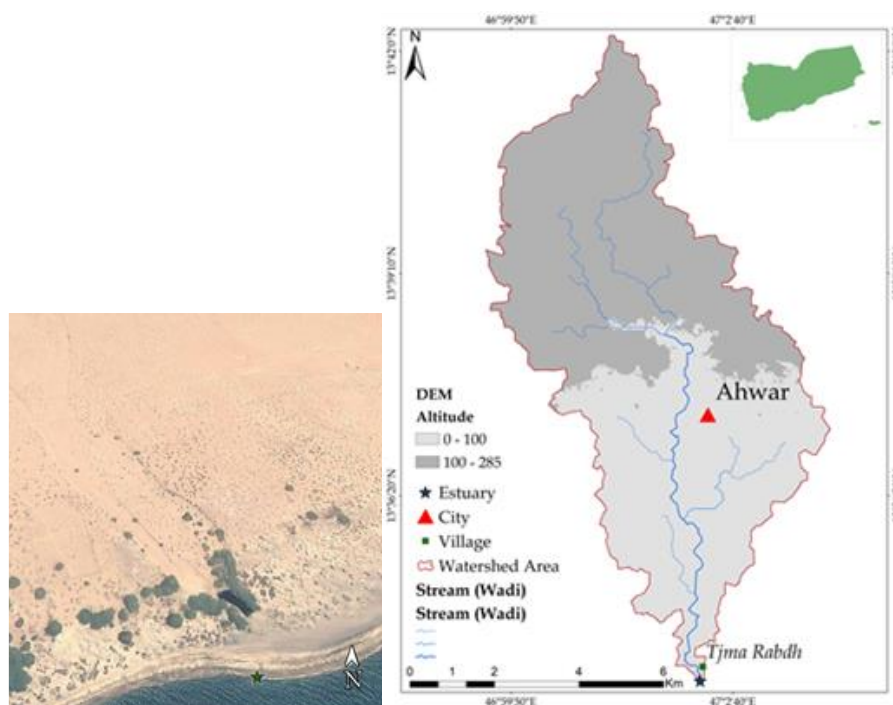


Figure 214. Oro-hydrographic Characteristics of Watershed: Alsedra, Abyan (right)& The satellite view of Tjma Rabdh Estuary (2009) (left).

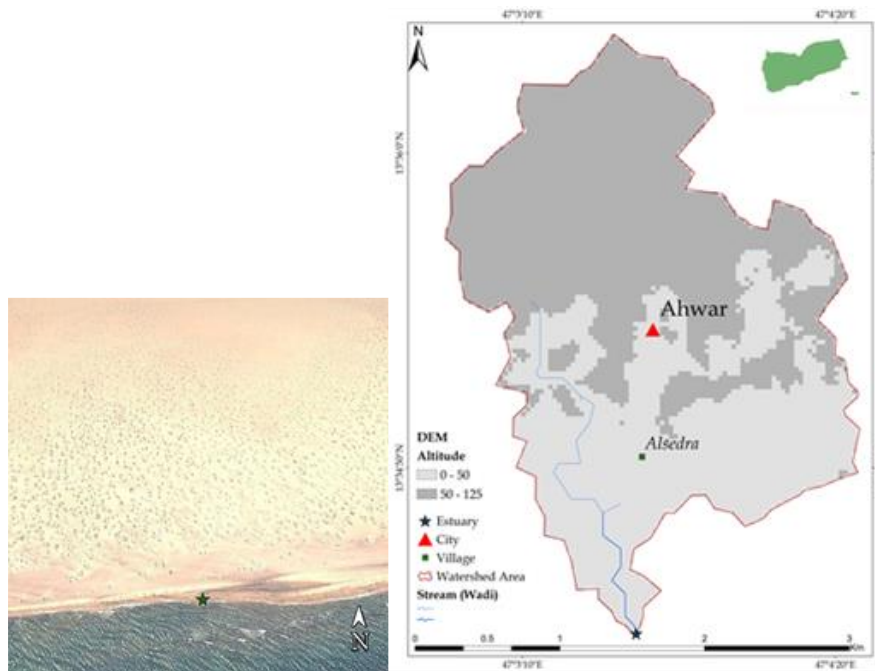


Figure 215. Oro-hydrographic Characteristics of Watershed: Mzareb, Abyan (right)& The satellite view of Alsedra Estuary (2009) (left).

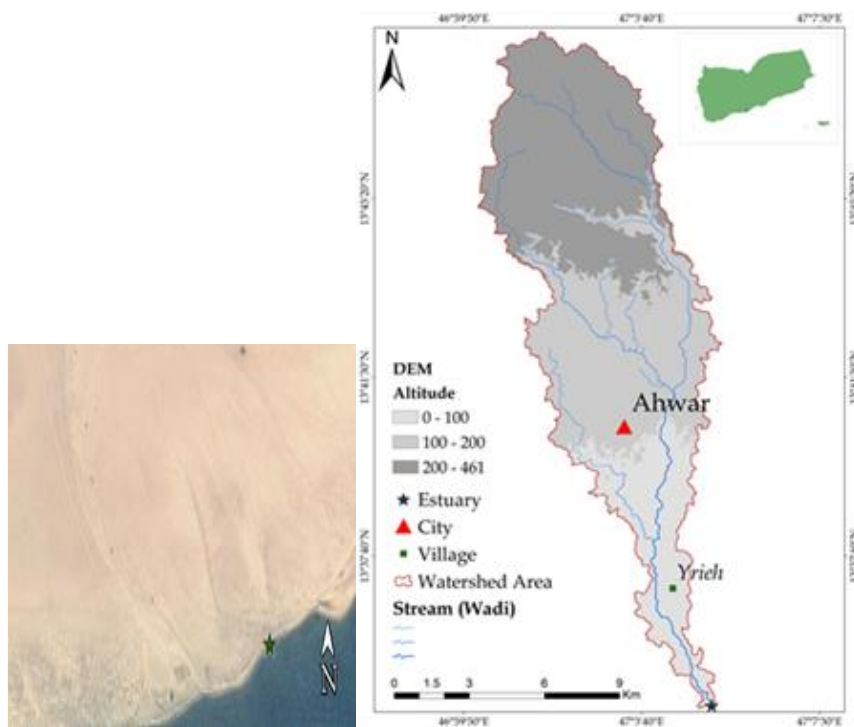


Figure 216. Oro-hydrographic Characteristics of Watershed: Mreid, Abyan (right)& The satellite view of Yriedh Estuary (2009) (left).

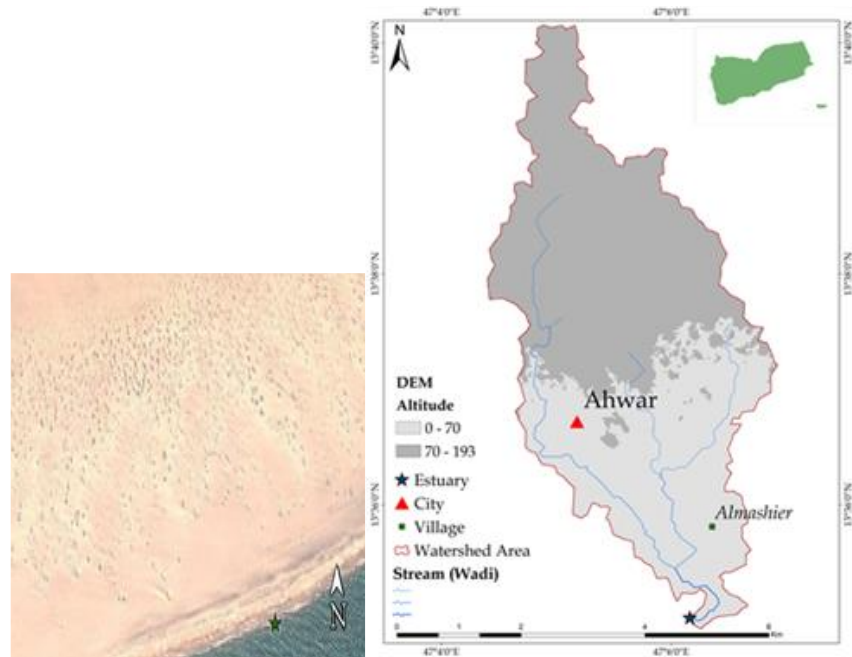


Figure 217. Oro-hydrographic Characteristics of Watershed: Zabta, Abyan (right)& The satellite view of Almashier Estuary (2009) (left).

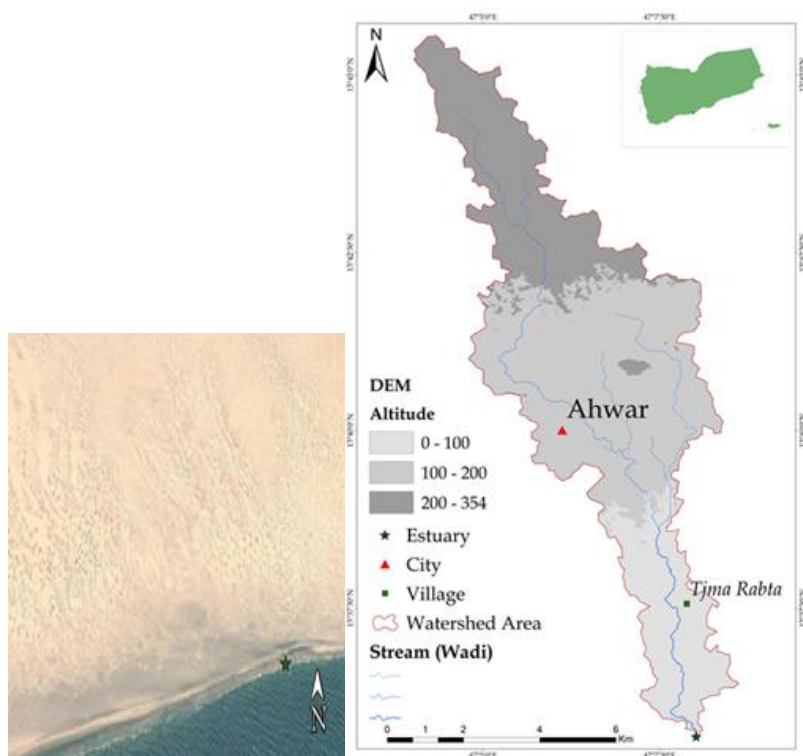


Figure 218. Oro-hydrographic Characteristics of Watershed: Almashier, Abyan (right)& The satellite view of Tjma Rabta Estuary (2009) (left).

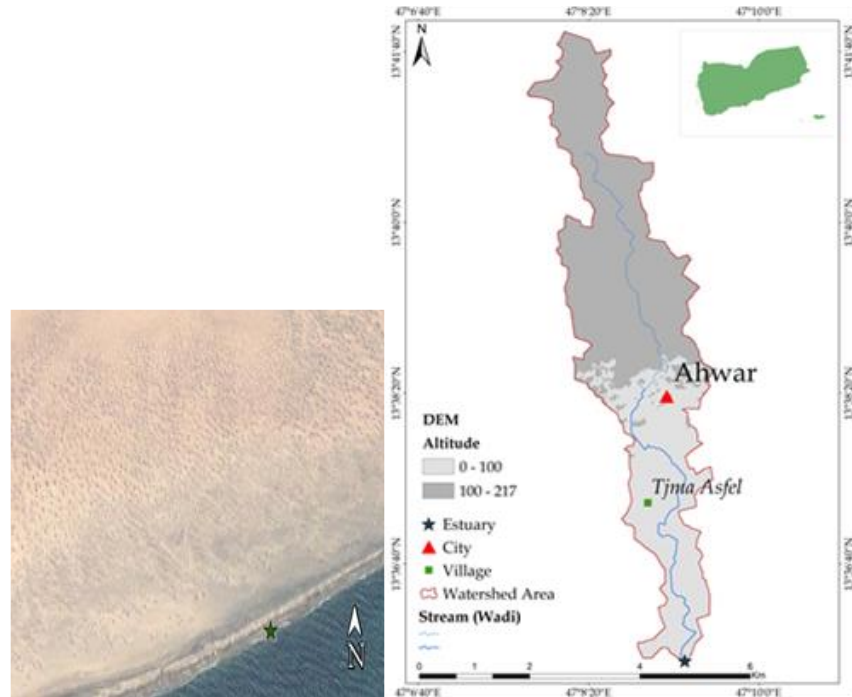


Figure 219. Oro-hydrographic Characteristics of Watershed: Reda'a, Abyan (right)& The satellite view of Tjma Asfel Estuary (2009) (left).

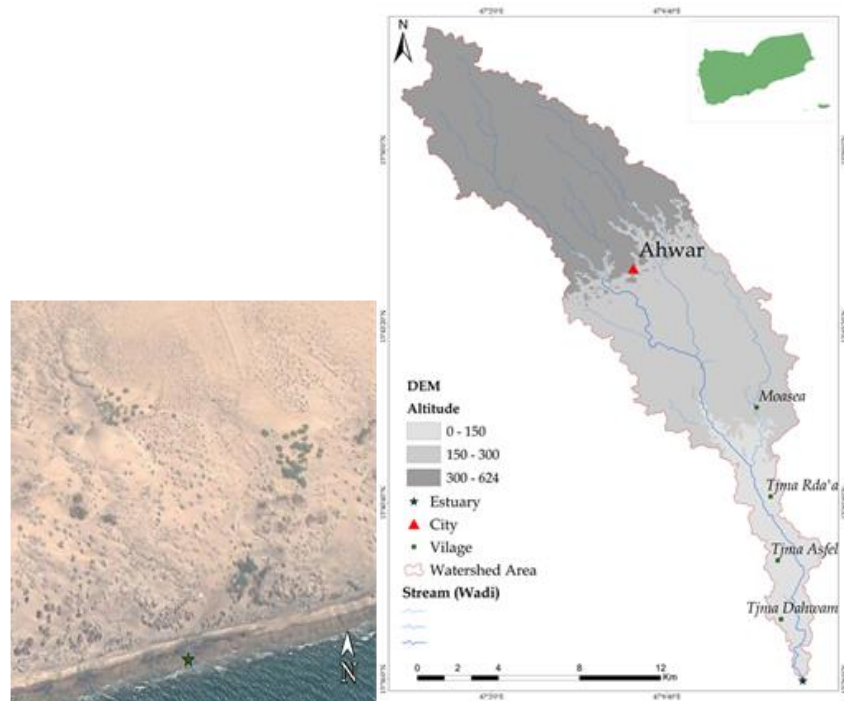


Figure 220. Oro-hydrographic Characteristics of Watershed: Radh, Abyan (right)& The satellite view of Tjma Dahwam Estuary (2009) (left).

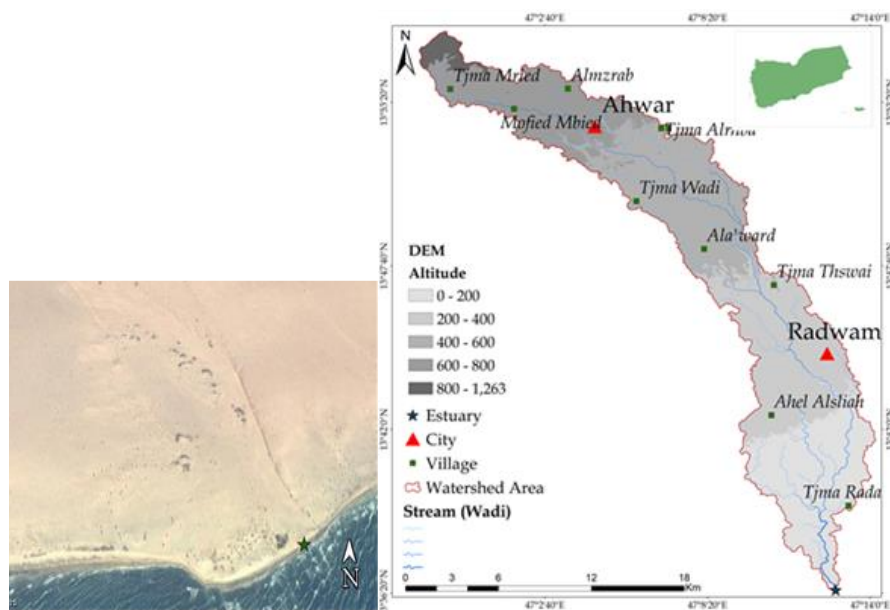


Figure 221. Oro-hydrographic Characteristics of Watershed: Dahwma, Abyan (right)& The satellite view of Tjma Rada Estuary (2003) (left).

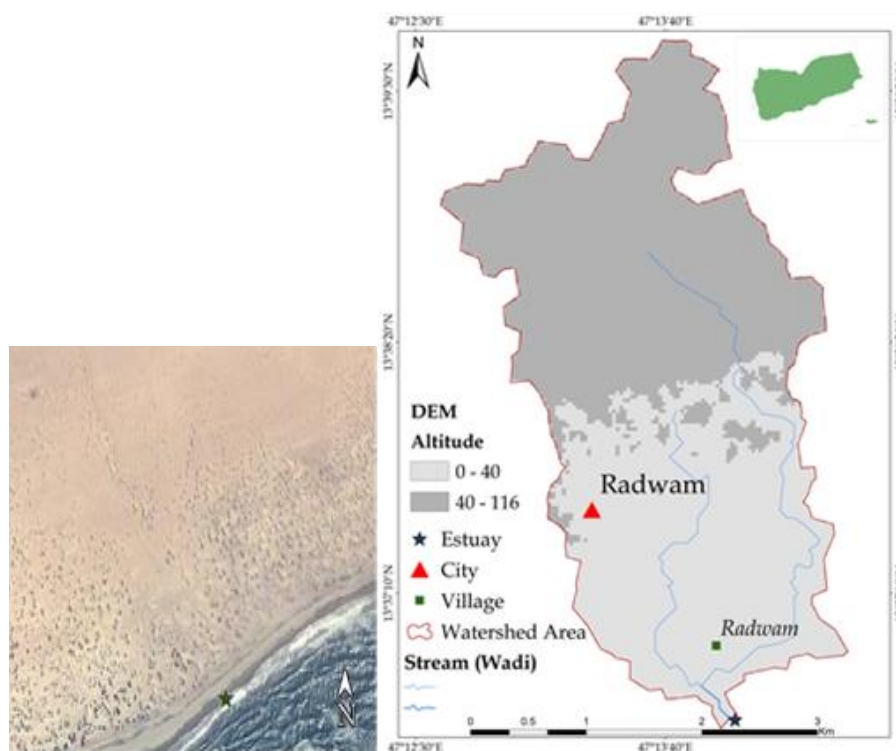


Figure 222. Oro-hydrographic Characteristics of Watershed: Alhier, Shabwah (right)& The satellite view of Radwam Estuary (2009) (left).

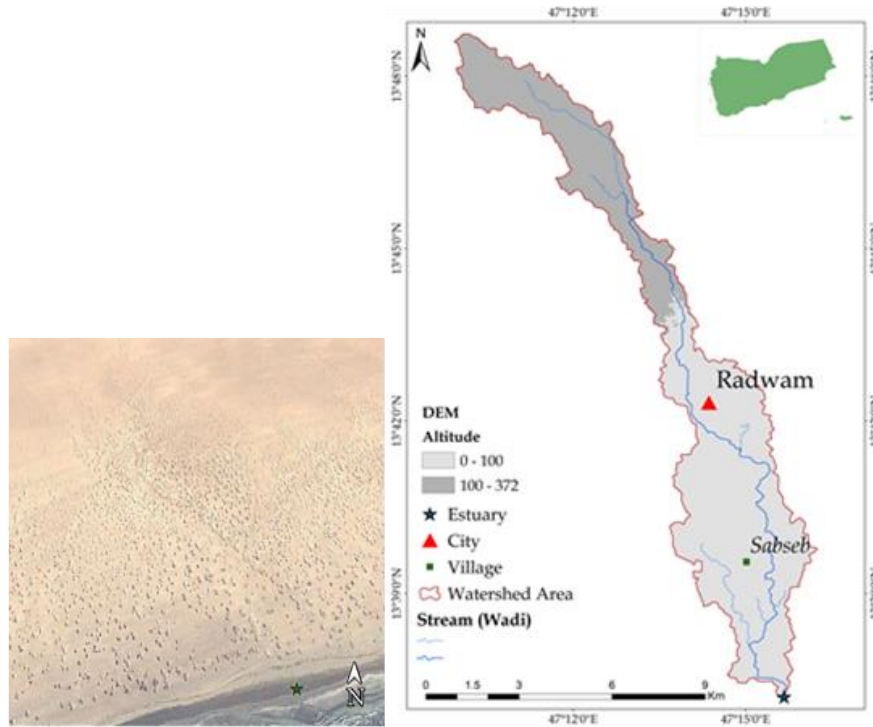


Figure 223. Oro-hydrographic Characteristics of Watershed: Atar, Shabwah (right)& The satellite view of Sabseb Estuary (2009) (left).

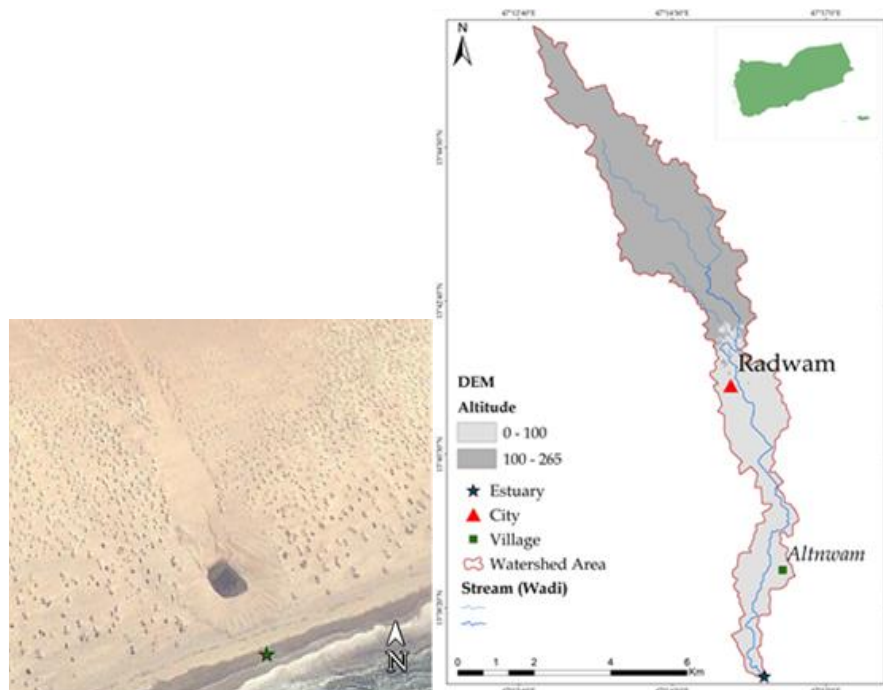


Figure 224. Oro-hydrographic Characteristics of Watershed: Rahab, Shabwah (right)& The satellite view of Altnwm Estuary (2009) (left).

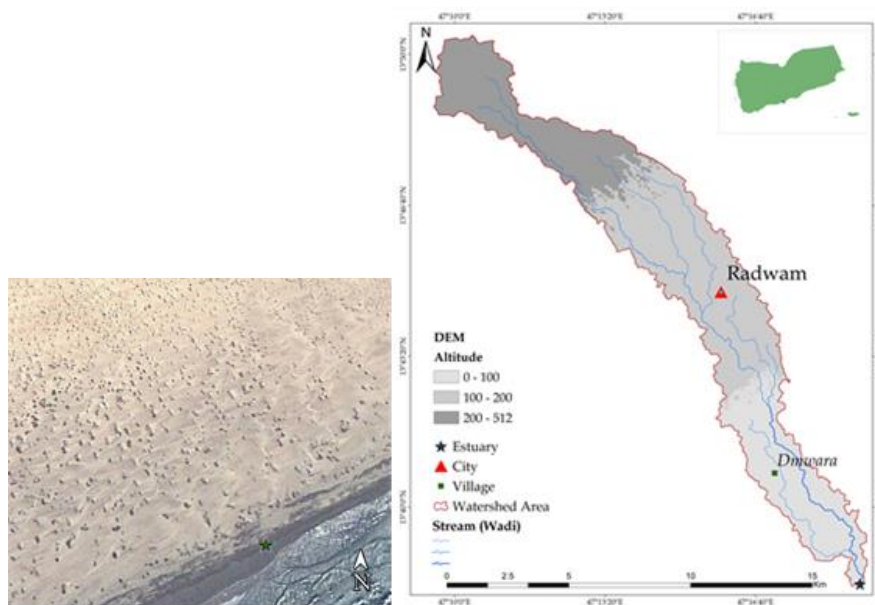


Figure 225. Oro-hydrographic Characteristics of Watershed: Algdami, Shabwah (right)& The satellite view of Dmwara Estuary (2009) (left).

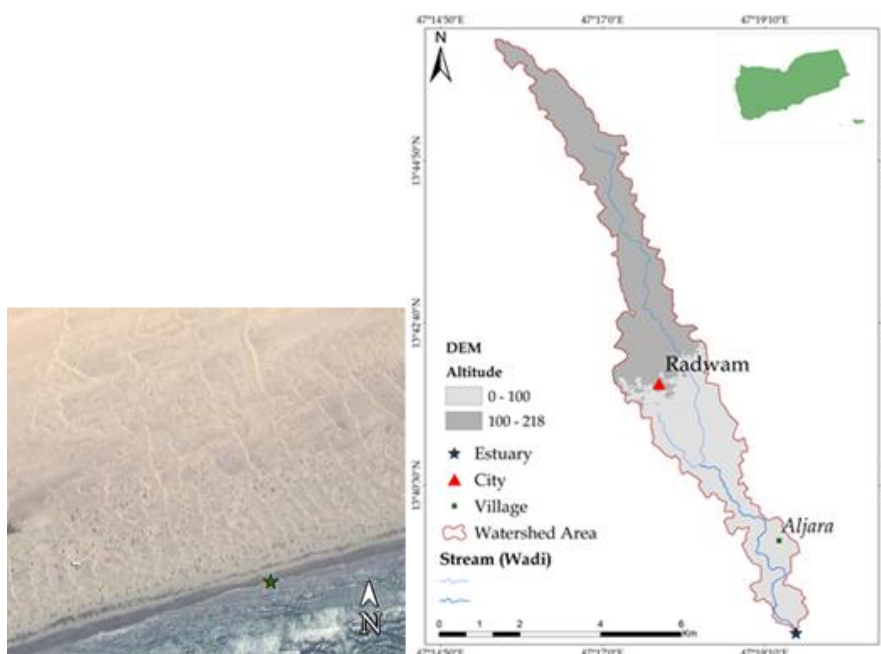


Figure 226. Oro-hydrographic Characteristics of Watershed: Sheieb, Shabwah (right)& The satellite view of Aljara Estuary (2009) (left).

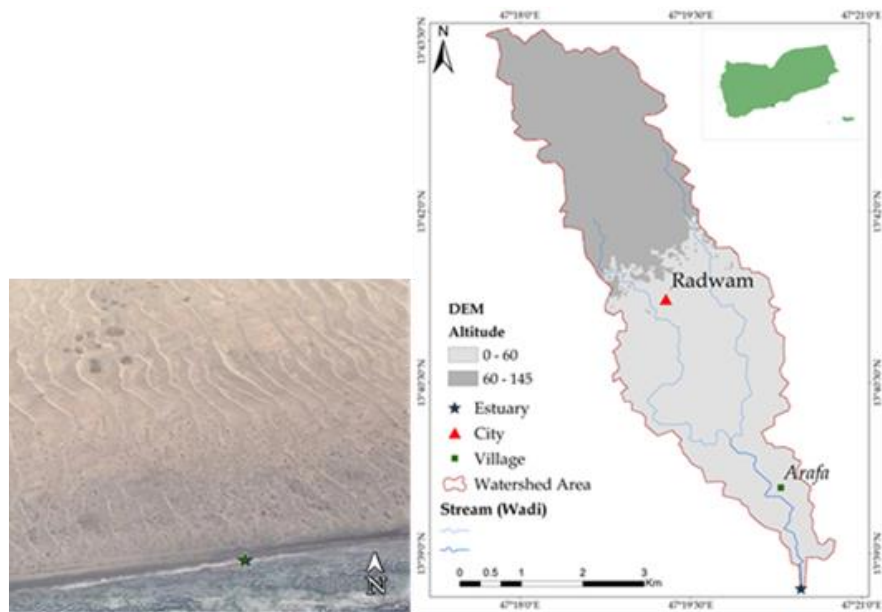


Figure 227. Oro-hydrographic Characteristics of Watershed: Areqa, Shabwah (right)& The satellite view of Arafat Estuary (2009) (left).

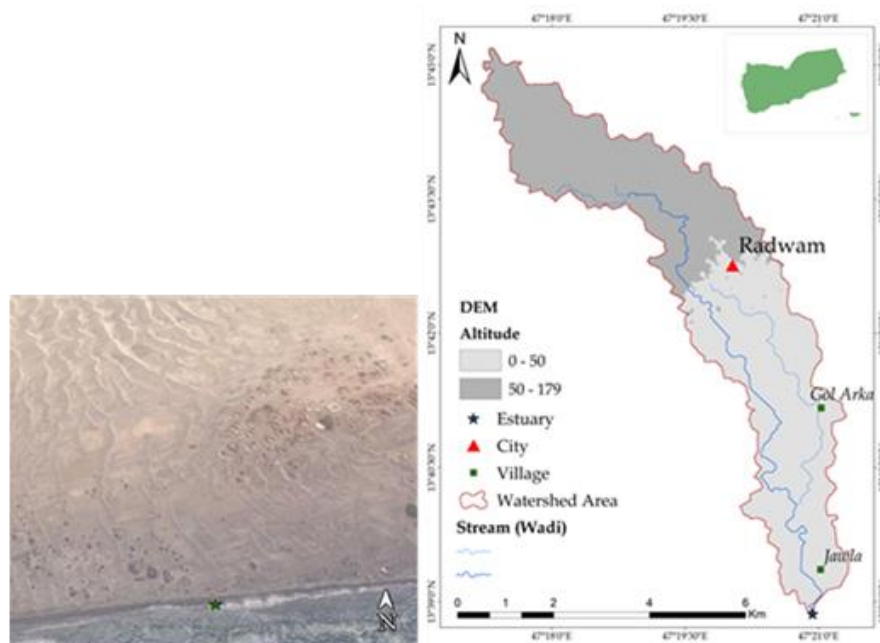


Figure 228. Oro-hydrographic Characteristics of Watershed: Lodia, Shabwah (right)& The satellite view of Jawla Estuary (2009) (left).

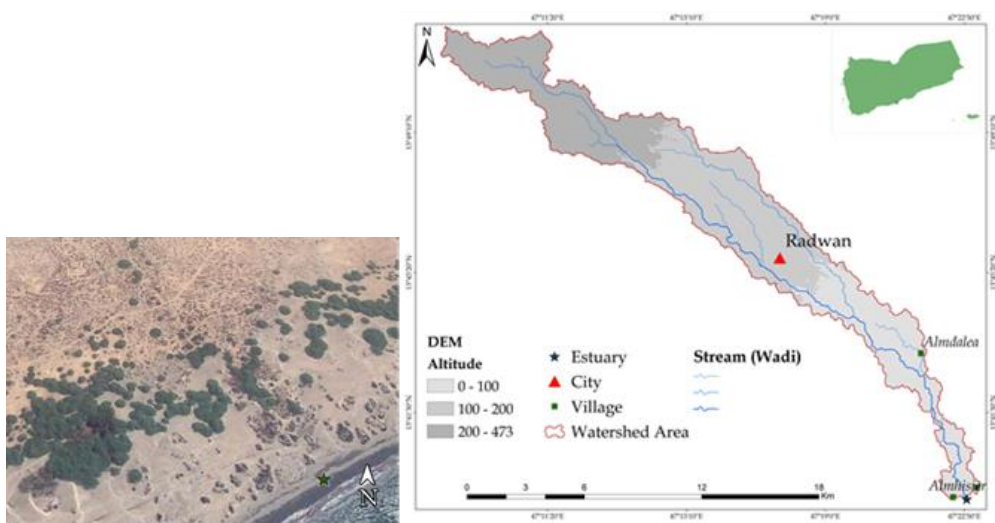


Figure 229. Oro-hydrographic Characteristics of Watershed: Keir, Shabwah (right)& The satellite view of Almhsier Estuary (2009) (left).

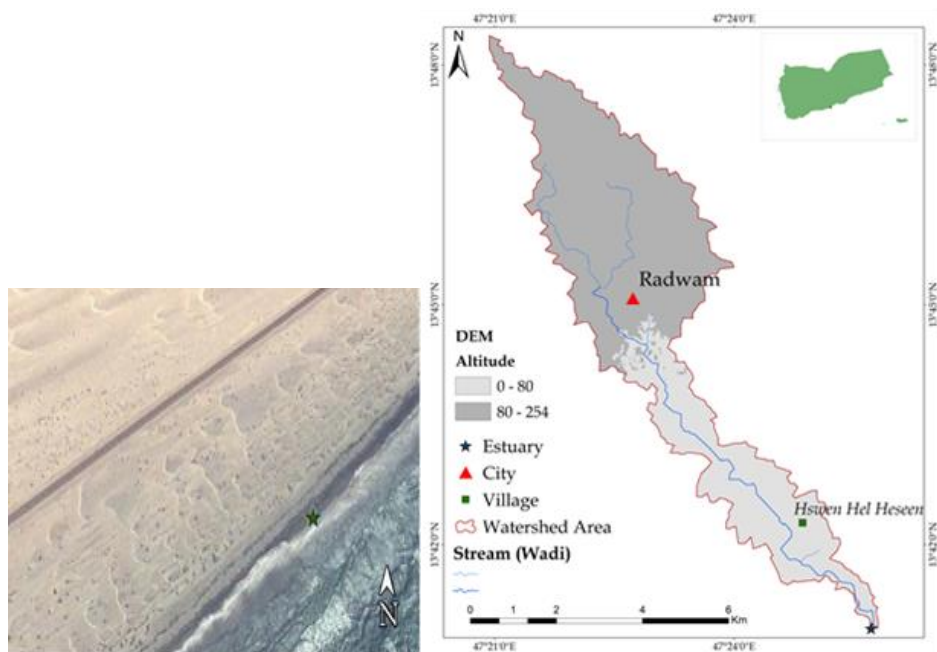


Figure 230. Oro-hydrographic Characteristics of Watershed: Alaef, Shabwah (right)& The satellite view of Hswen Hel Heseen Estuary (2009) (left).

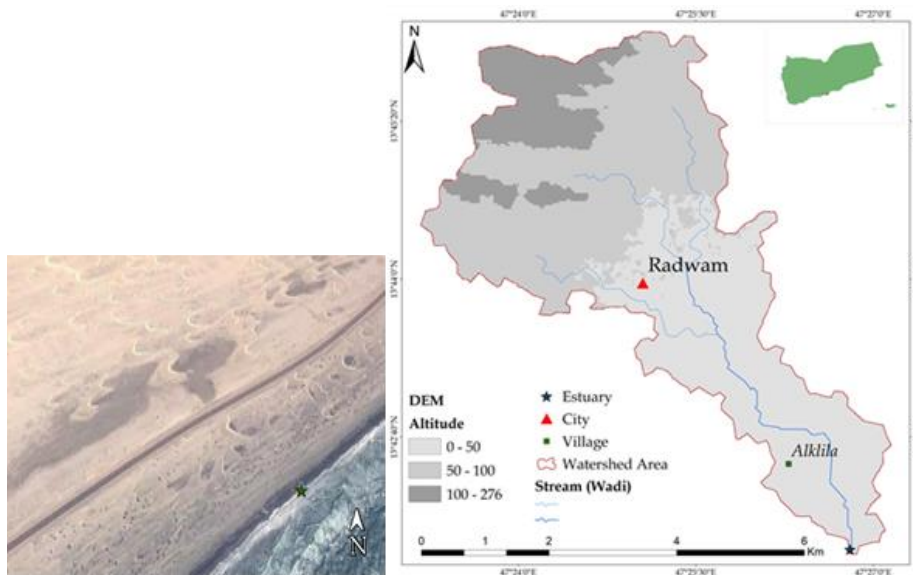


Figure 231. Oro-hydrographic Characteristics of Watershed: Alhnjra, Shabwah (right)& The satellite view of Alklila Estuary (2009) (left).

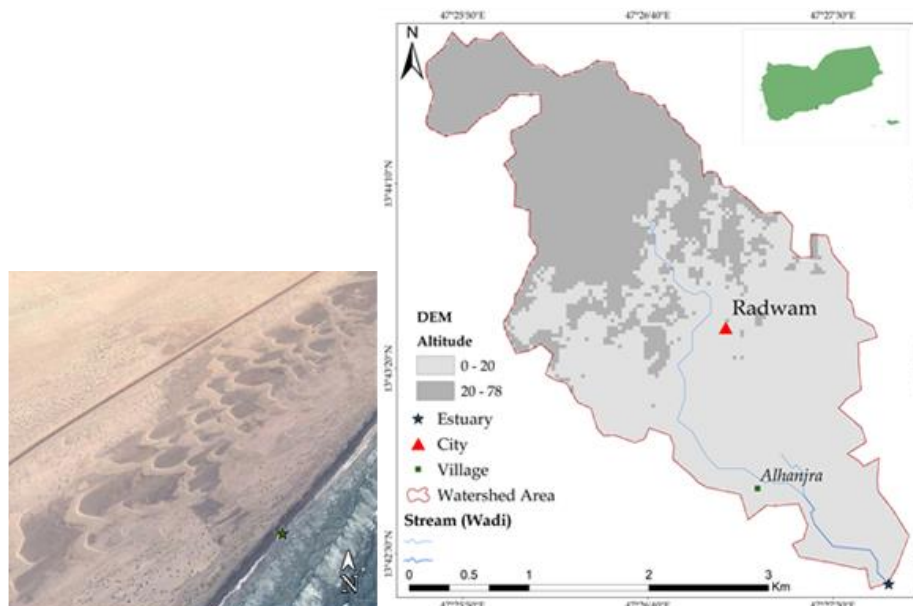


Figure 232. Oro-hydrographic Characteristics of Watershed: Sana, Shabwah (right)& The satellite view of Alhanjra Estuary (2009) (left).

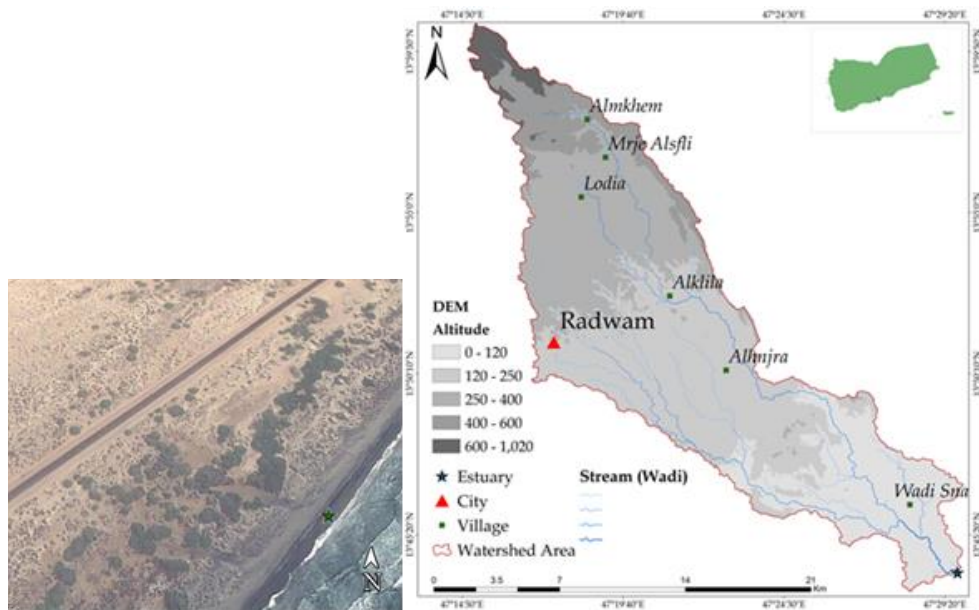


Figure 233. Oro-hydrographic Characteristics of Watershed: Alsheb, Shabwah (right)& The satellite view of Wadi Sana Estuary (2009) (left).

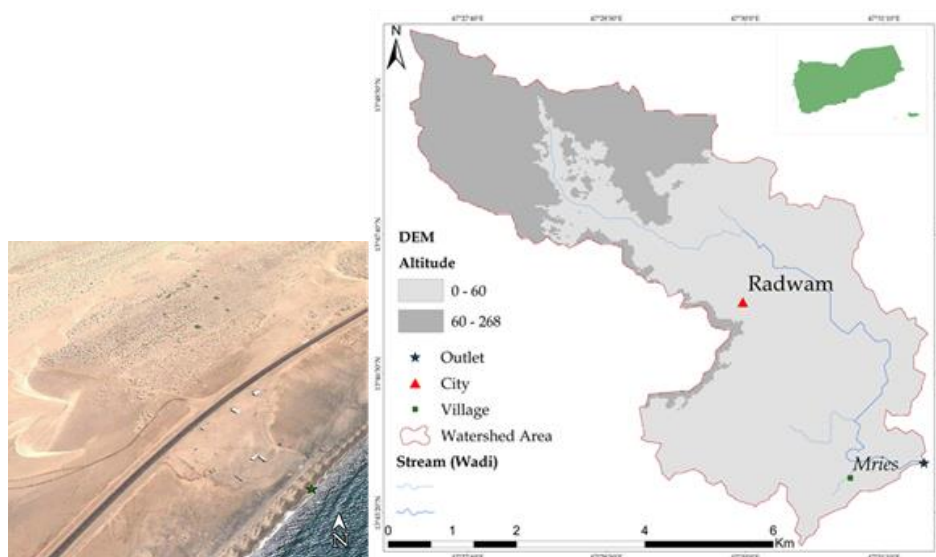


Figure 234. Oro-hydrographic Characteristics of Watershed: Alrdaka, Shabwah (right)& The satellite view of Mries Estuary (2009) (left).

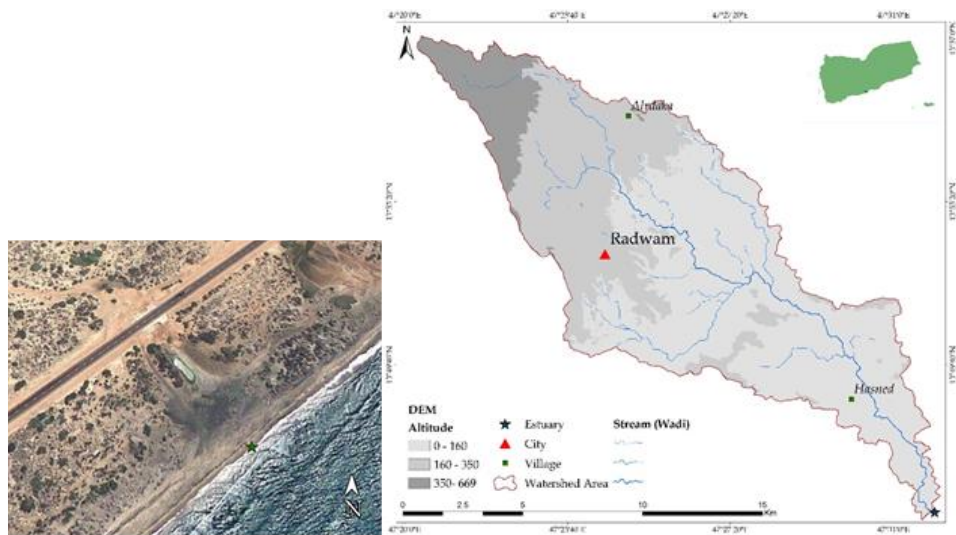


Figure 235. Oro-hydrographic Characteristics of Watershed: Mreis, Shabwah (right)& The satellite view of Hasned Estuary (2009) (left).

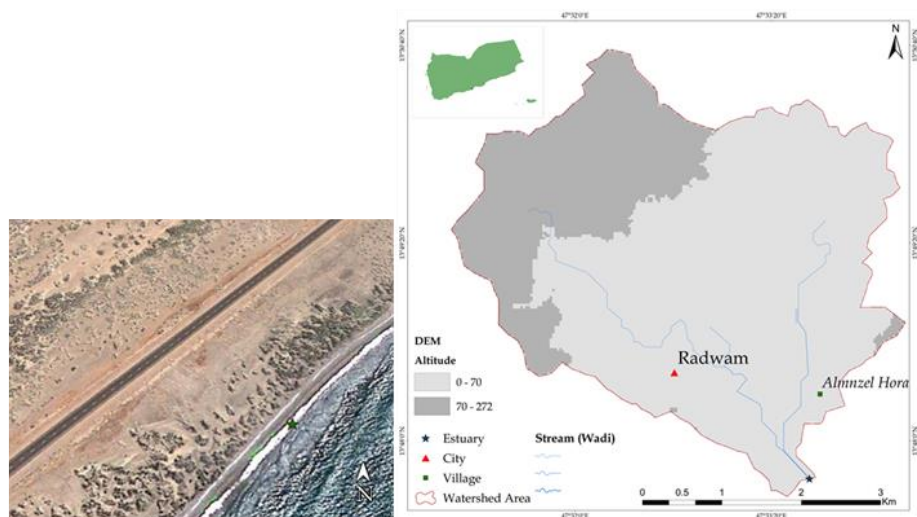


Figure 236. Oro-hydrographic Characteristics of Watershed: Hasned, Shabwah (right)& The satellite view of Almnzel Hora Estuary (2009) (left).

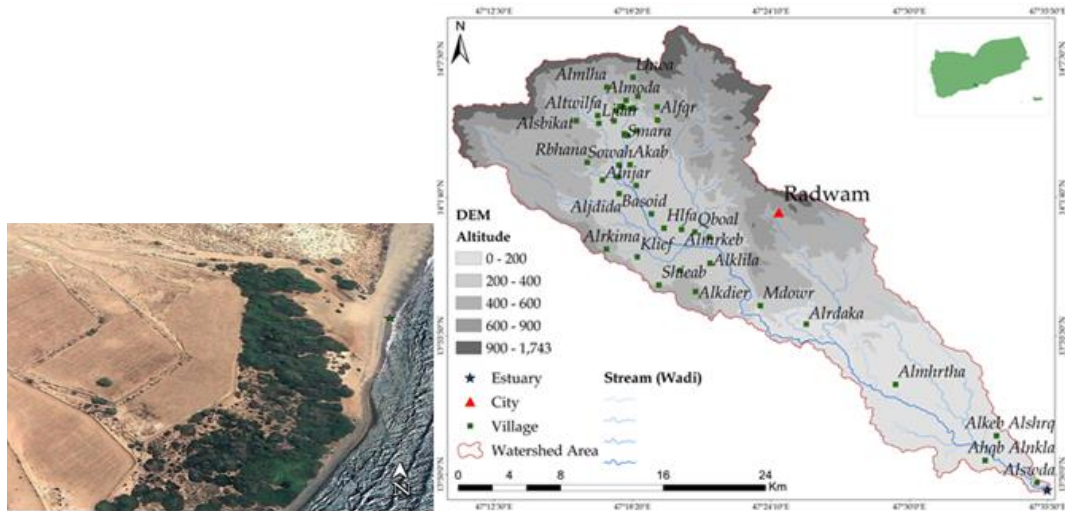


Figure 237. Oro-hydrographic Characteristics of Watershed: Rahbah, Shabwah (right)& The satellite view of Alswda Estuary (2009) (left).

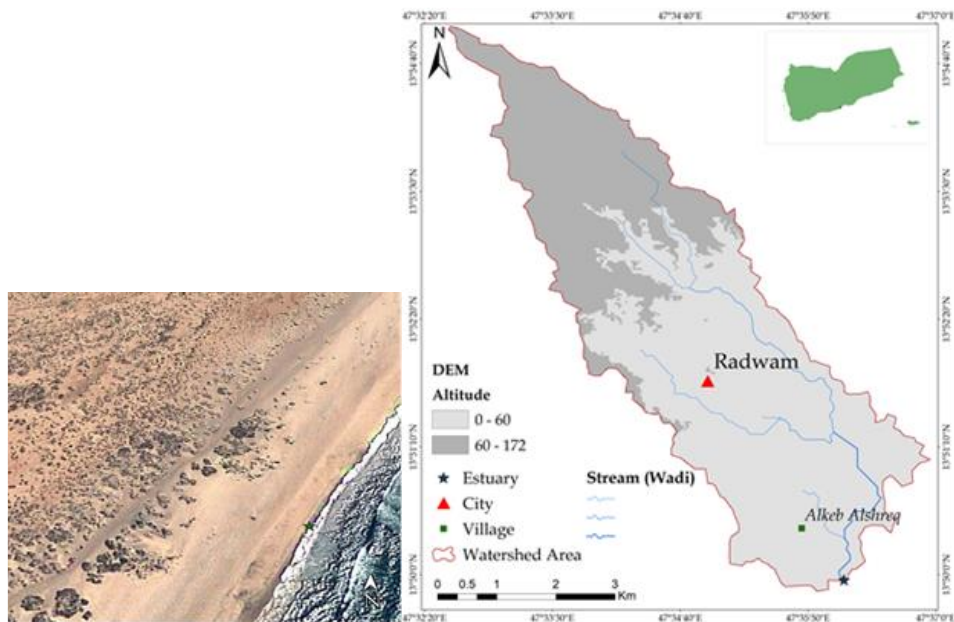


Figure 238. Oro-hydrographic Characteristics of Watershed: Mdwar, Shabwah (right)& The satellite view of Alkeb Alshreq Estuary (2009) (left).

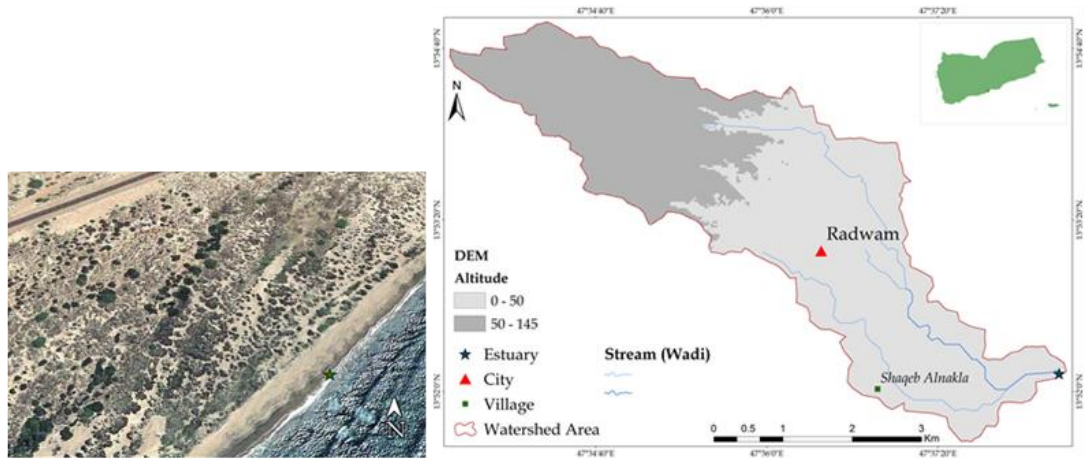


Figure 239. Oro-hydrographic Characteristics of Watershed: Almlila, Shabwah (right)& The satellite view of Shaqeb Alnkla Estuary (2009) (left).

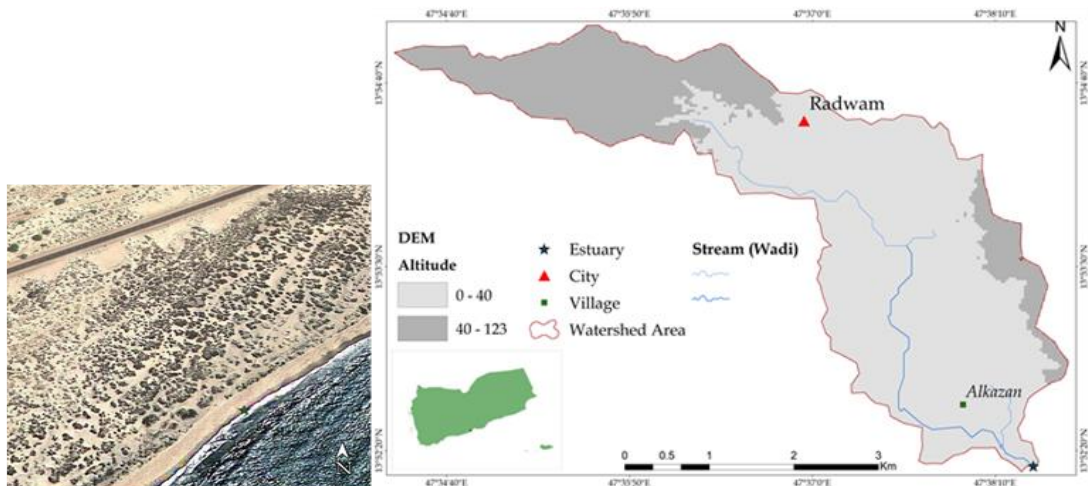


Figure 240. Oro-hydrographic Characteristics of Watershed: Alkazan, Shabwah (right)& The satellite view of Alkazan Estuary (2009) (left).

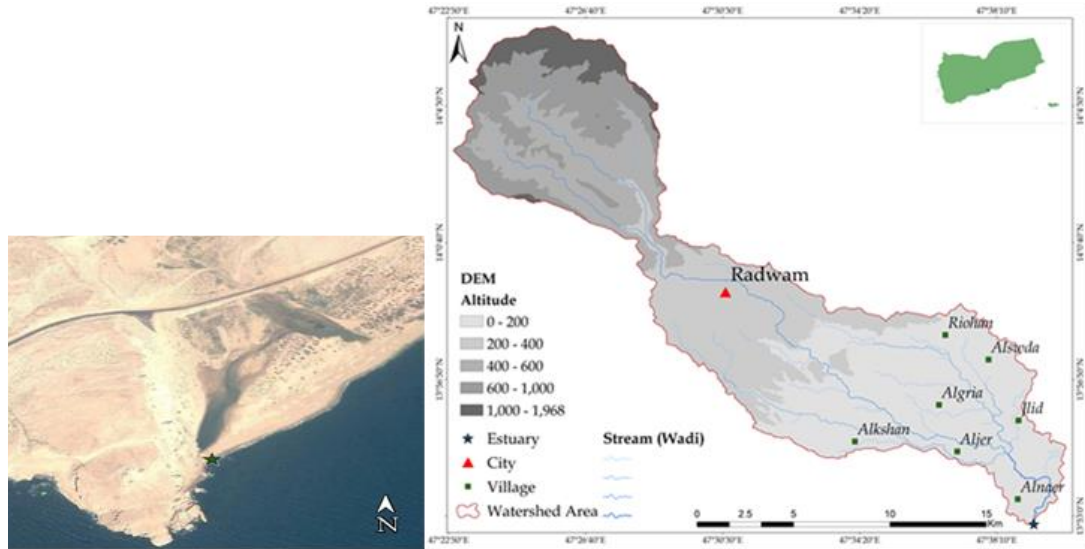


Figure 241. Oro-hydrographic Characteristics of Watershed: Hada'a, Shabwah (right)& The satellite view of Alnaer Estuary (2009) (left).

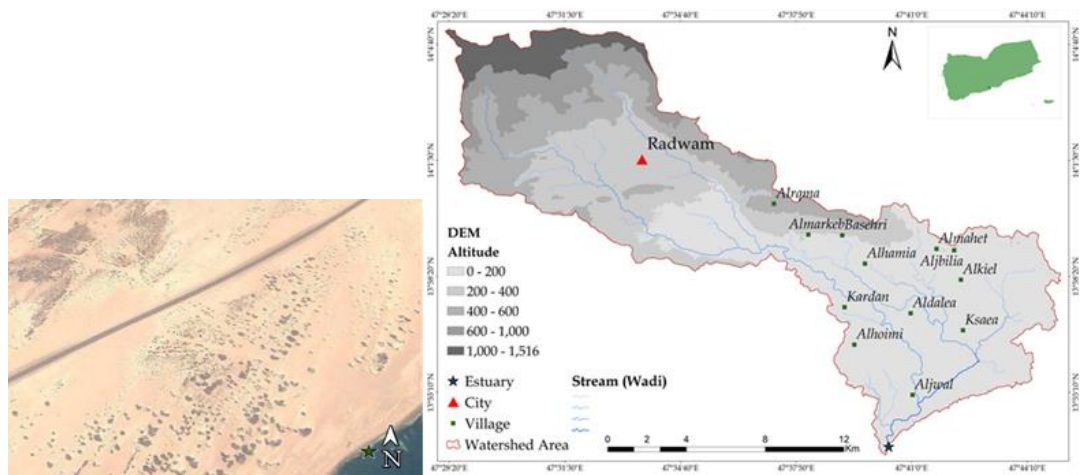


Figure 242. Oro-hydrographic Characteristics of Watershed: Aljwal, Shabwah (right)& The satellite view of Aljwal Estuary (2009) (left).

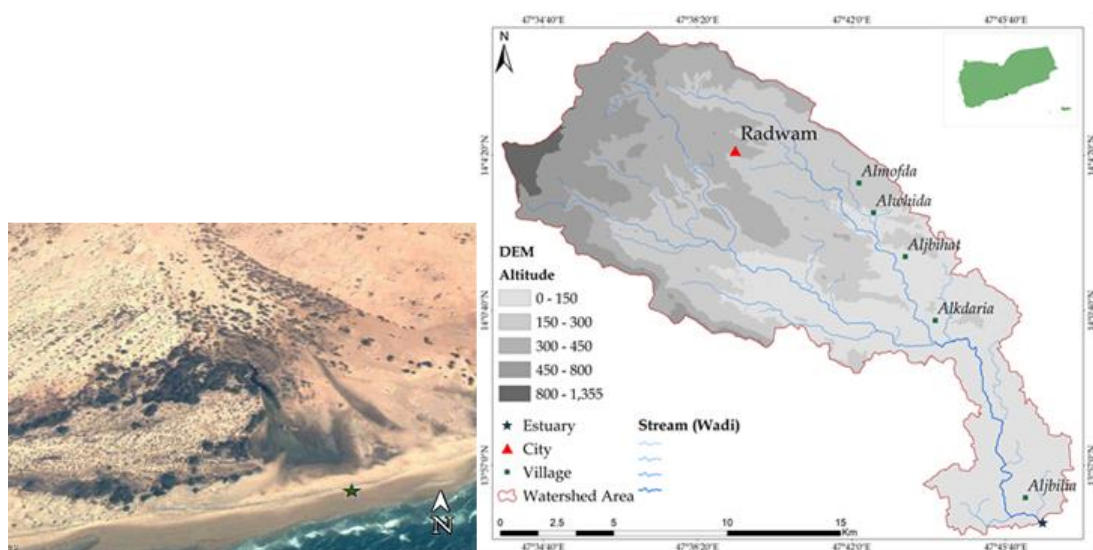


Figure 243. Oro-hydrographic Characteristics of Watershed: Alhdiat, Shabwah (right)& The satellite view of Aljbilia Estuary (2009) (left).

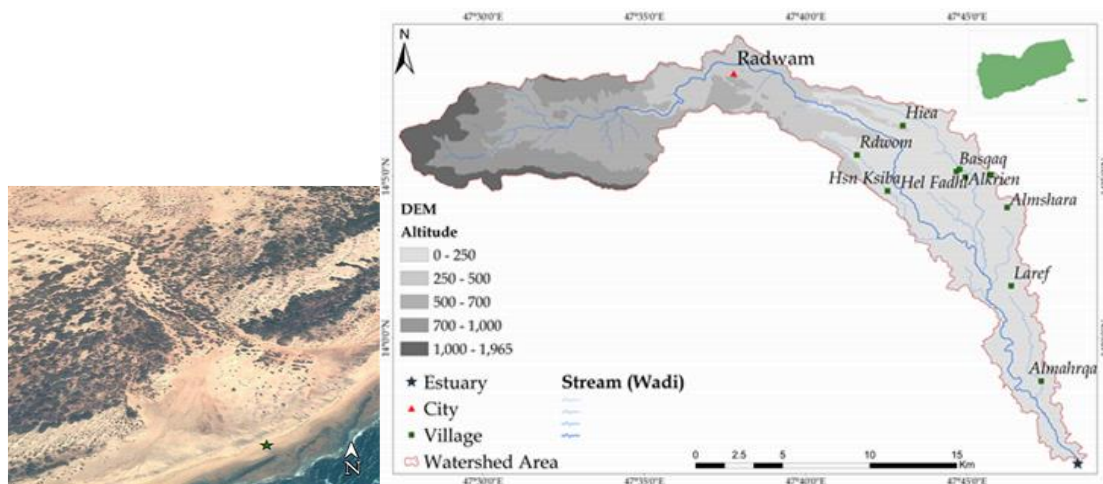


Figure 244. Oro-hydrographic Characteristics of Watershed: Hawra, Shabwah (right)& The satellite view of Almahrqa Estuary (2009) (left).

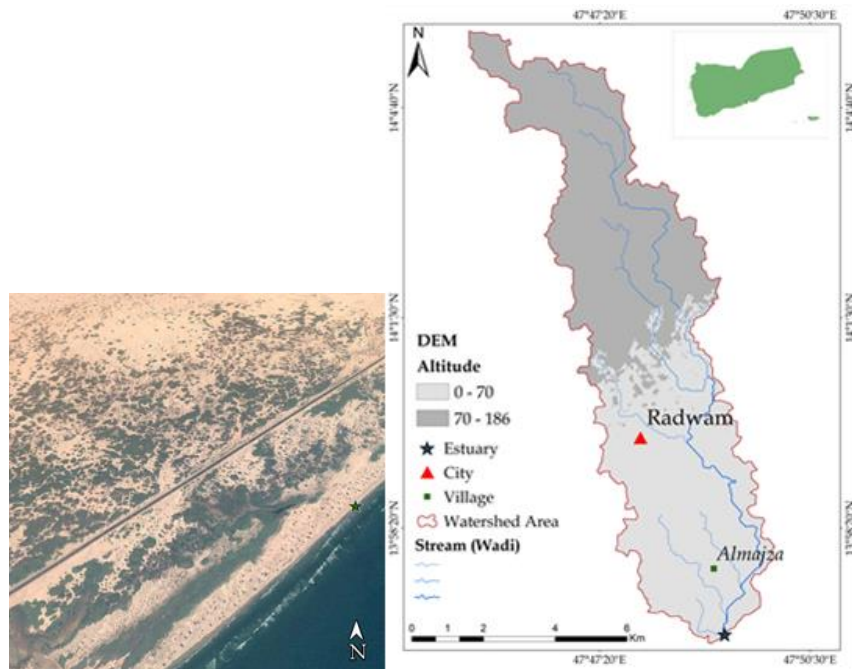


Figure 245. Oro-hydrographic Characteristics of Watershed: Mora, Shabwah (right)& The satellite view of Almajza Estuary (2009) (left).

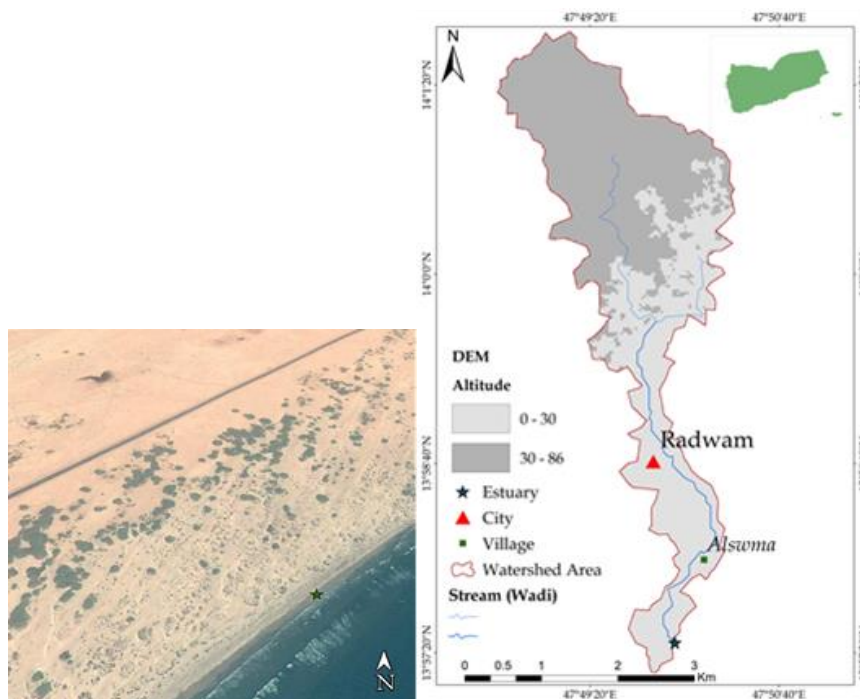


Figure 246. Oro-hydrographic Characteristics of Watershed: Almjza, Shabwah (right)& The satellite view of Alswma Estuary (2009) (left).

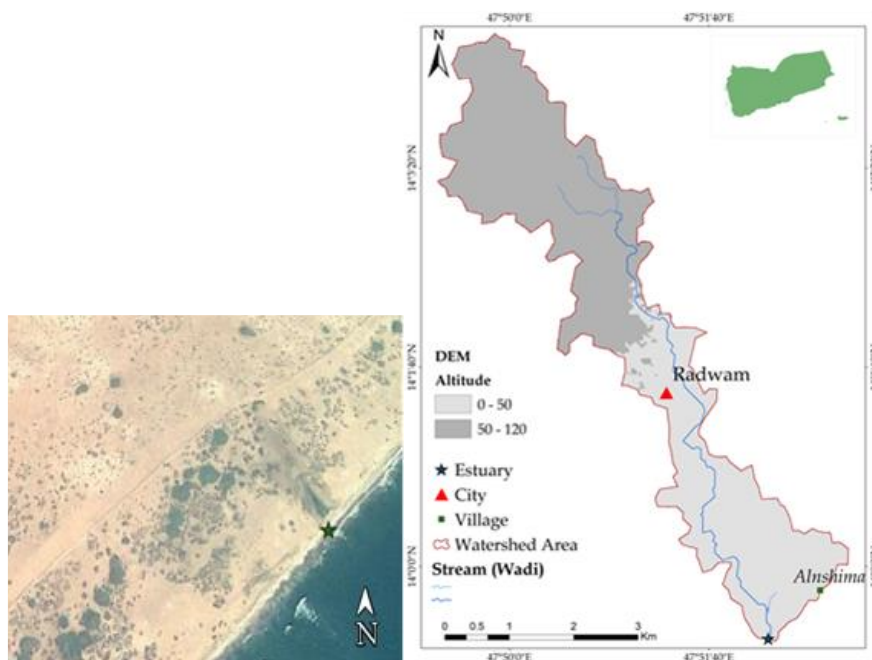


Figure 247. Oro-hydrographic Characteristics of Watershed: Almkita, Shabwah (right)& The satellite view of Alnshima Estuary (2009) (left).

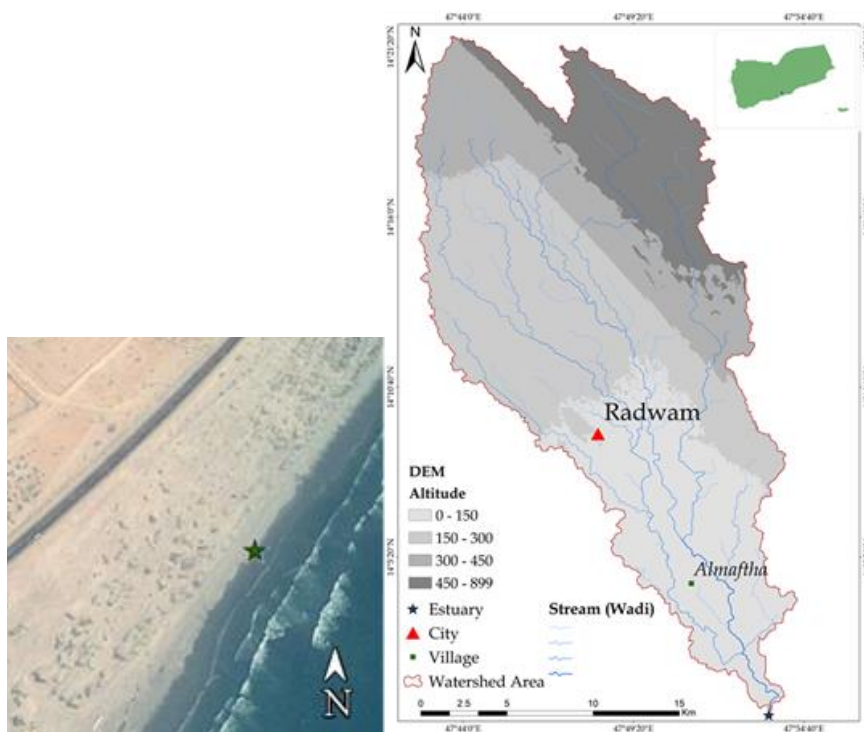


Figure 248. Oro-hydrographic Characteristics of Watershed: Alsra, Shabwah (right)& The satellite view of Almfta Estuary (2009) (left).

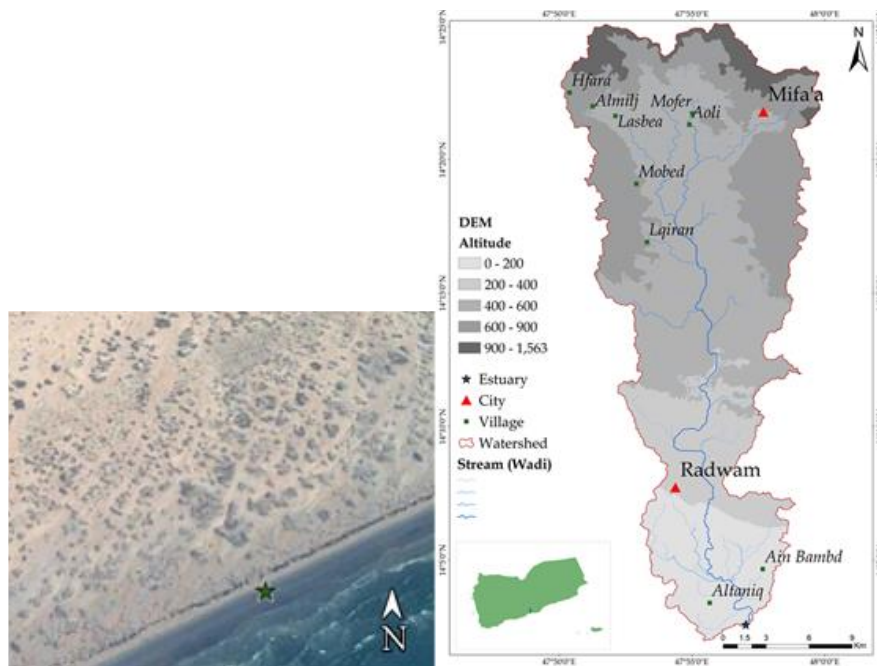


Figure 249. Oro-hydrographic Characteristics of Watershed: Awali, Shabwah (right)& The satellite view of Altaniq Estuary (2010) (left).

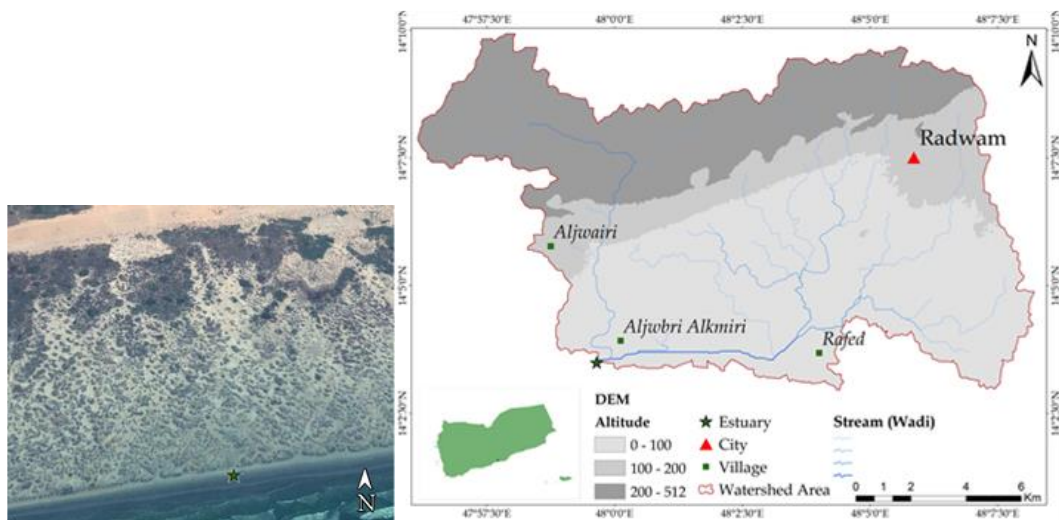


Figure 250. Oro-hydrographic Characteristics of Watershed: Algwiri, Shabwah (right)& The satellite view of Aljwbri Alkmiri Estuary (2010) (left).

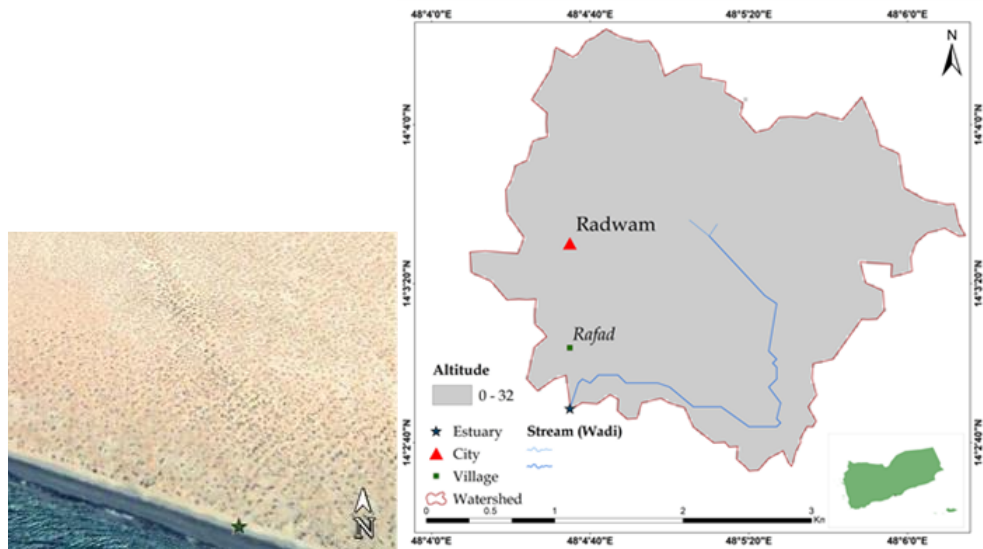


Figure 251. Oro-hydrographic Characteristics of Watershed: Alhwil, Shabwah (right)& The satellite view of Rafad Estuary (2003) (left).

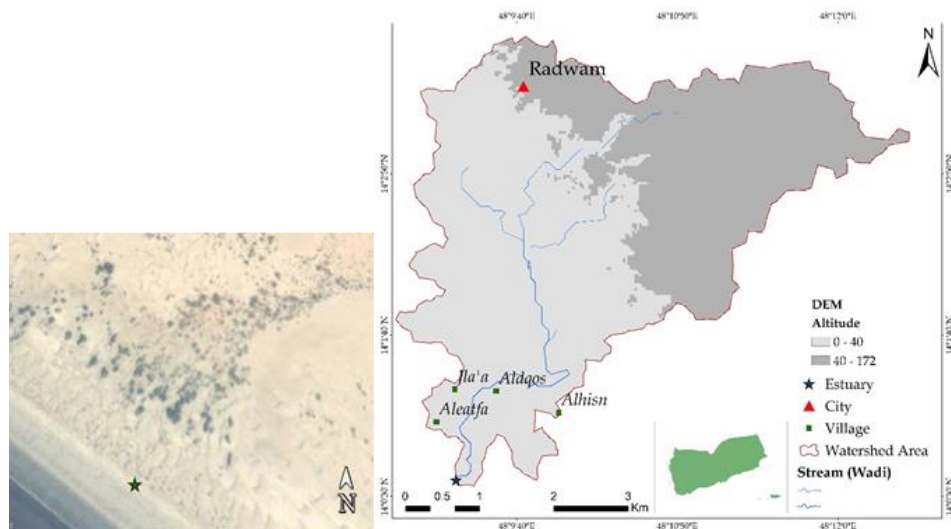


Figure 252. Oro-hydrographic Characteristics of Watershed: Amkamr, Shabwah (right)& The satellite view of Aleatfa Estuary (2003) (left).

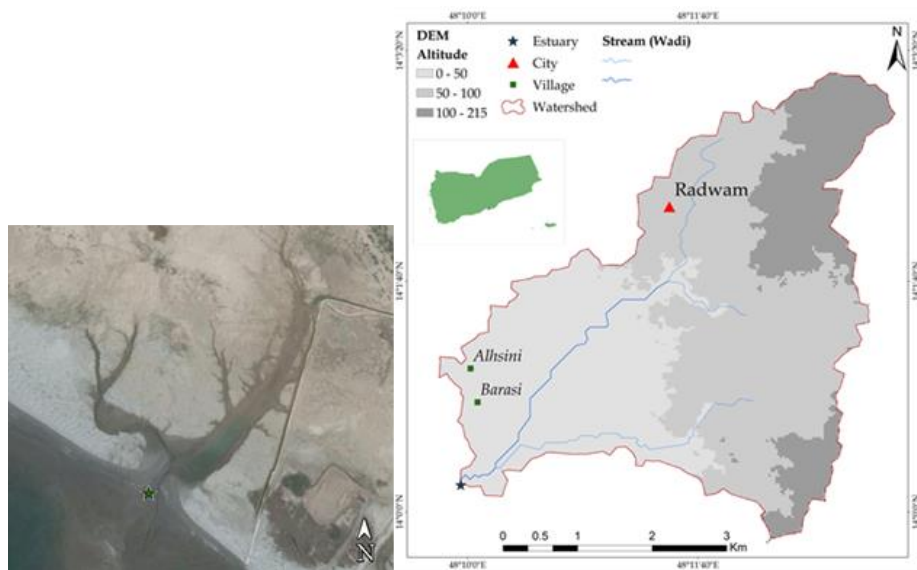


Figure 253. Oro-hydrographic Characteristics of Watershed: Alshjen, Shabwah (right)& The satellite view of Barasi Estuary (2016) (left).

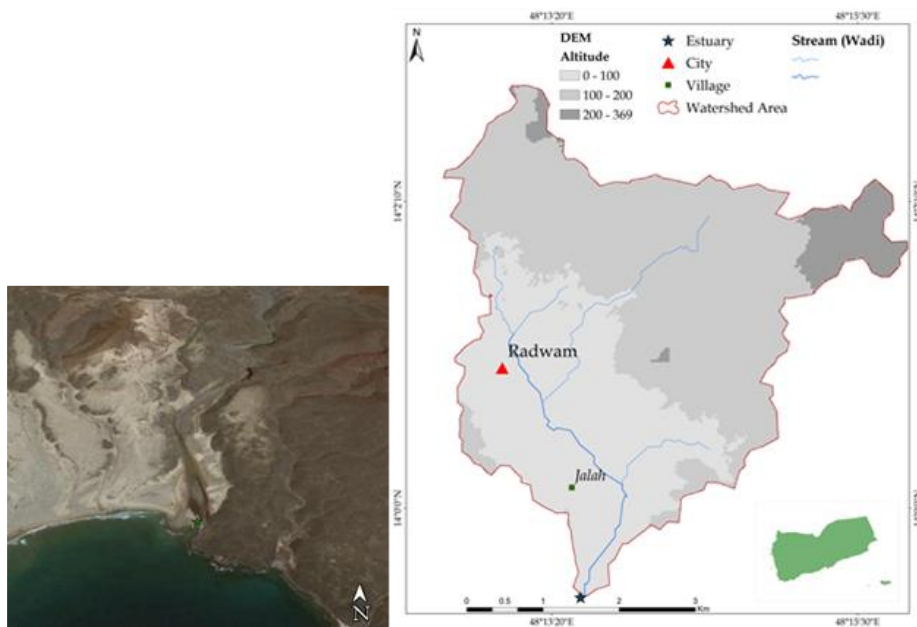


Figure 254. Oro-hydrographic Characteristics of Watershed: Glaea, Shabwah (right)& The satellite view of Jalah Estuary (2015) (left).

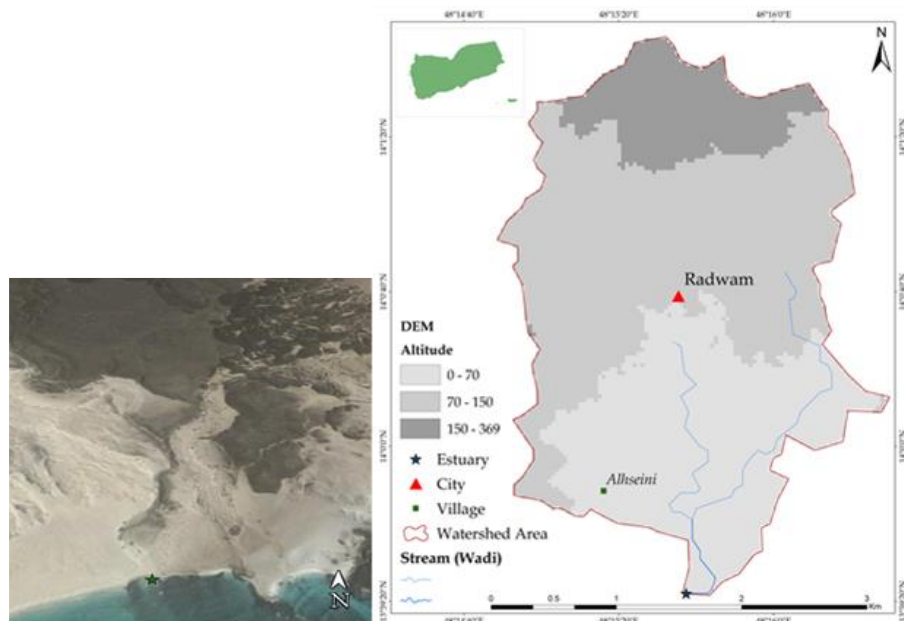


Figure 255. Oro-hydrographic Characteristics of Watershed: Alatif, Shabwah (right)& The satellite view of Alhseini Estuary (2013) (left).

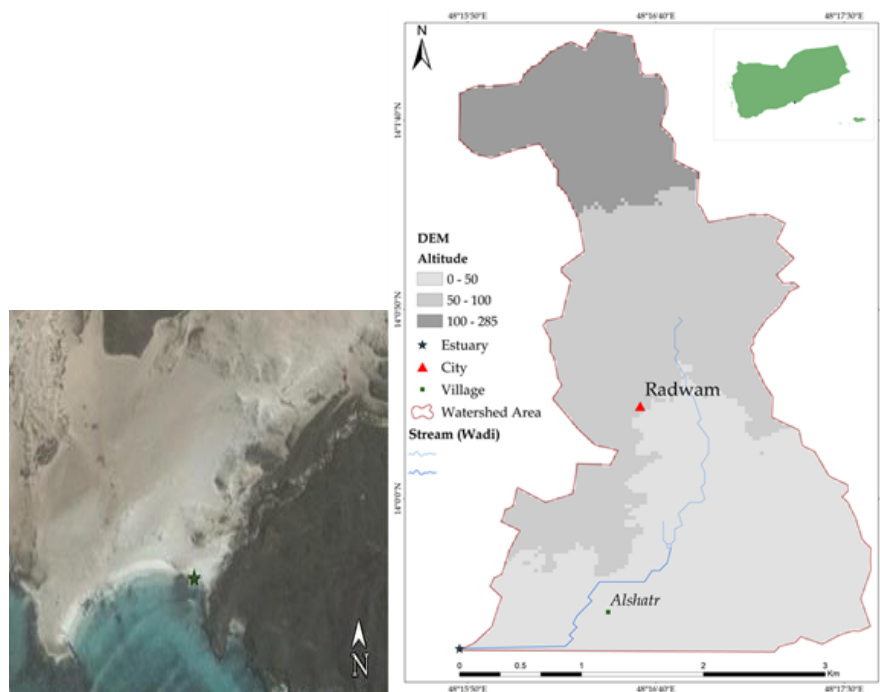


Figure 256. Oro-hydrographic Characteristics of Watershed: Qpara, Shabwah (right)& The satellite view of Alshatr Estuary (2013) (left).

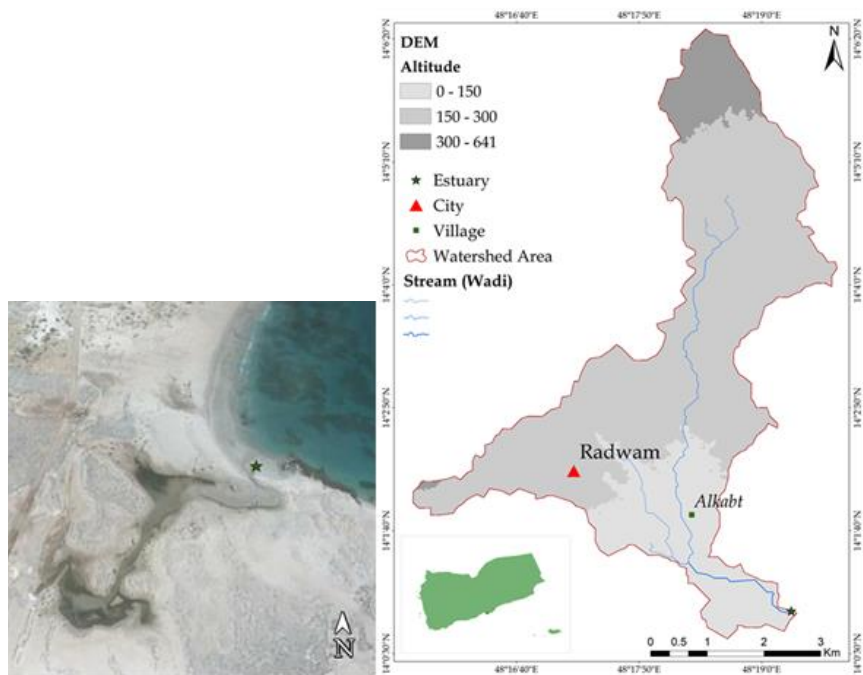


Figure 257. Oro-hydrographic Characteristics of Watershed: Alqepeth, Shabwah (right)& The satellite view of Alkabt Estuary (2016) (left).

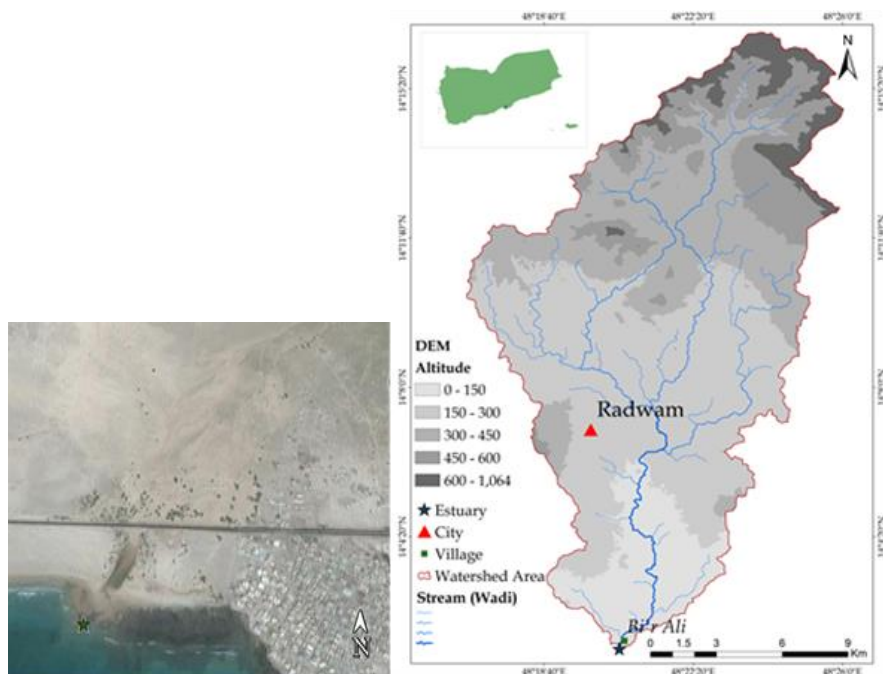


Figure 258. Oro-hydrographic Characteristics of Watershed: Alawred, Shabwah (right)& The satellite view of Bi'r Ali Estuary (2016) (left).

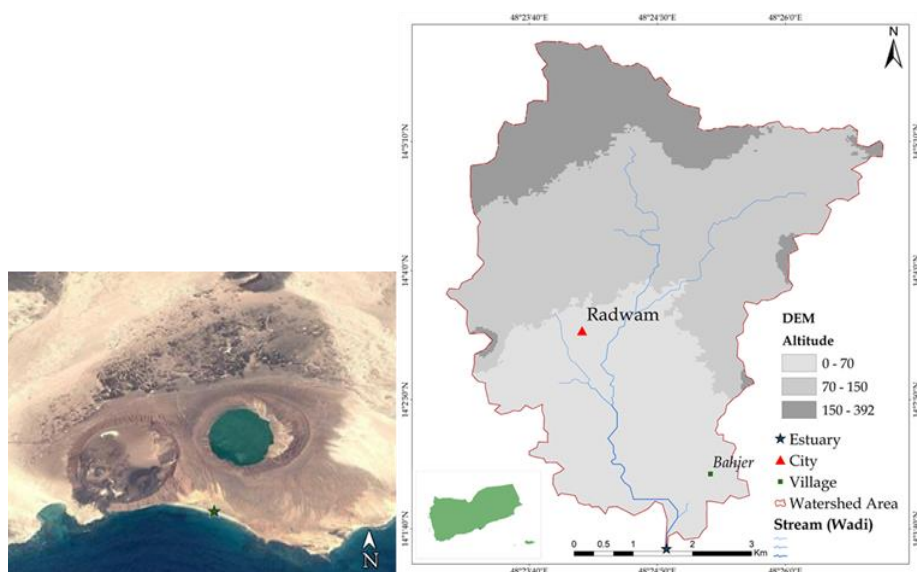


Figure 259. Oro-hydrographic Characteristics of Watershed: Sheb Badrib, Shabwah (right)& The satellite view of Bahjer Estuary (2009) (left).

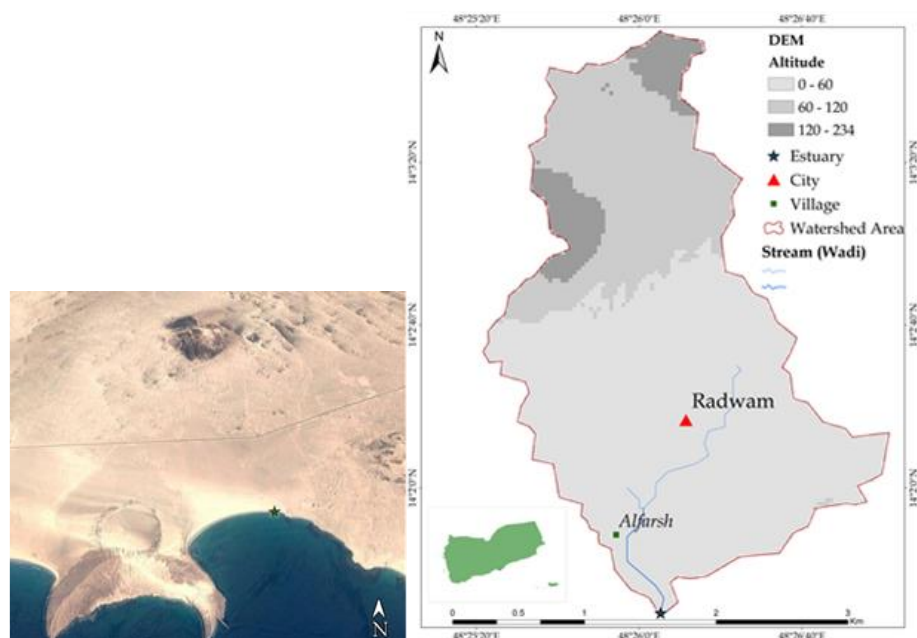


Figure 260. Oro-hydrographic Characteristics of Watershed: Alsefli, Shabwah (right)& The satellite view of Alfarsh Estuary (2009) (left).

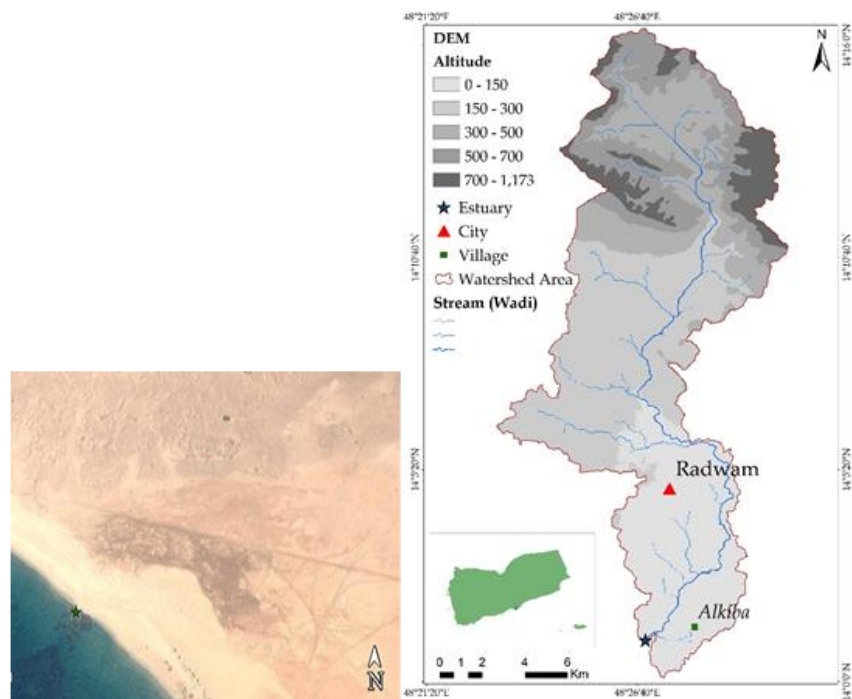


Figure 261. Oro-hydrographic Characteristics of Watershed: Bin Alshikin, Shabwah (right)& The satellite view of Alkiba Estuary (2009) (left).

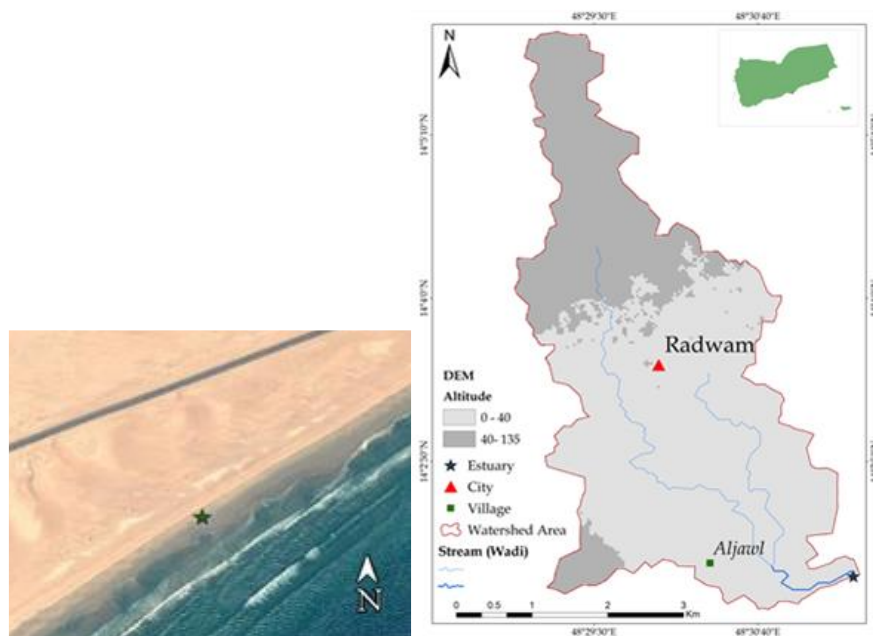


Figure 262. Oro-hydrographic Characteristics of Watershed: Alfersh, Shabwah (right)& The satellite view of Aljawl Estuary (2009) (left).

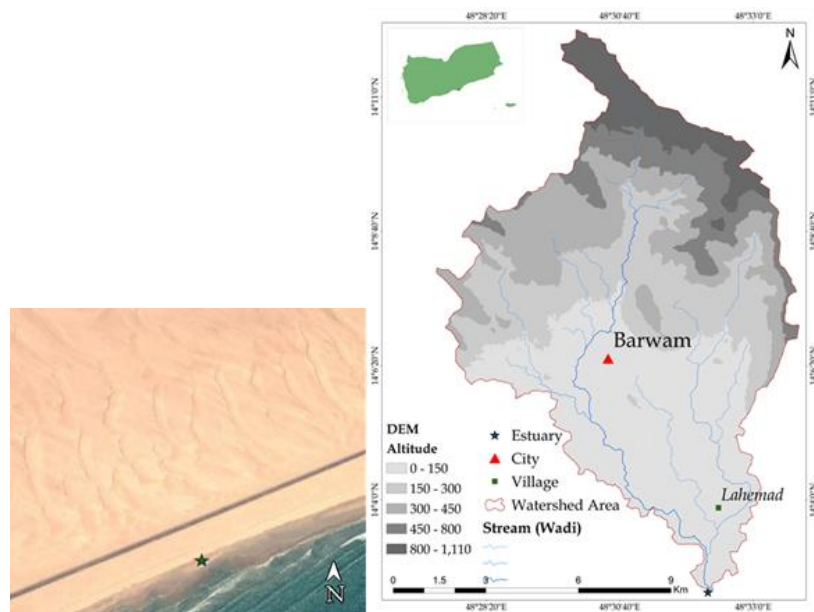


Figure 263. Oro-hydrographic Characteristics of Watershed: Sahmda, Hadramawt (right)& The satellite view of Lahemad Estuary (2009) (left).

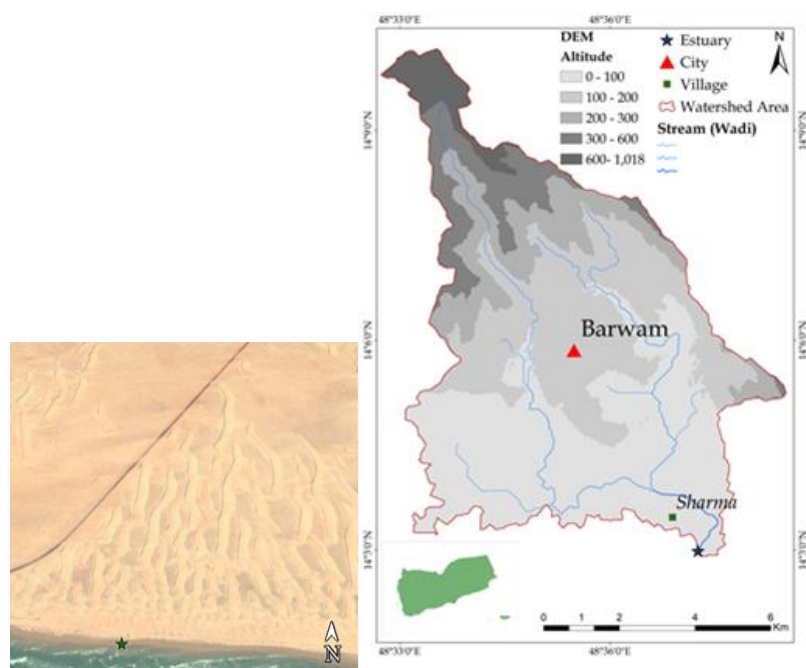


Figure 264. Oro-hydrographic Characteristics of Watershed: Sharma, Hadramawt (right)& The satellite view of Sharma Estuary (2009) (left).

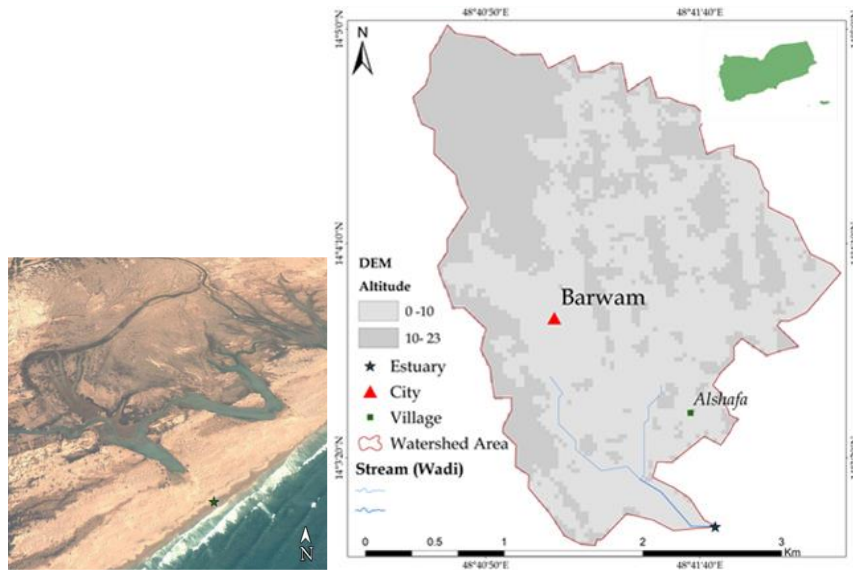


Figure 265. Oro-hydrographic Characteristics of Watershed: Radfah, Hadramawt (right)& The satellite view of Alshafa Estuary (2009) (left).

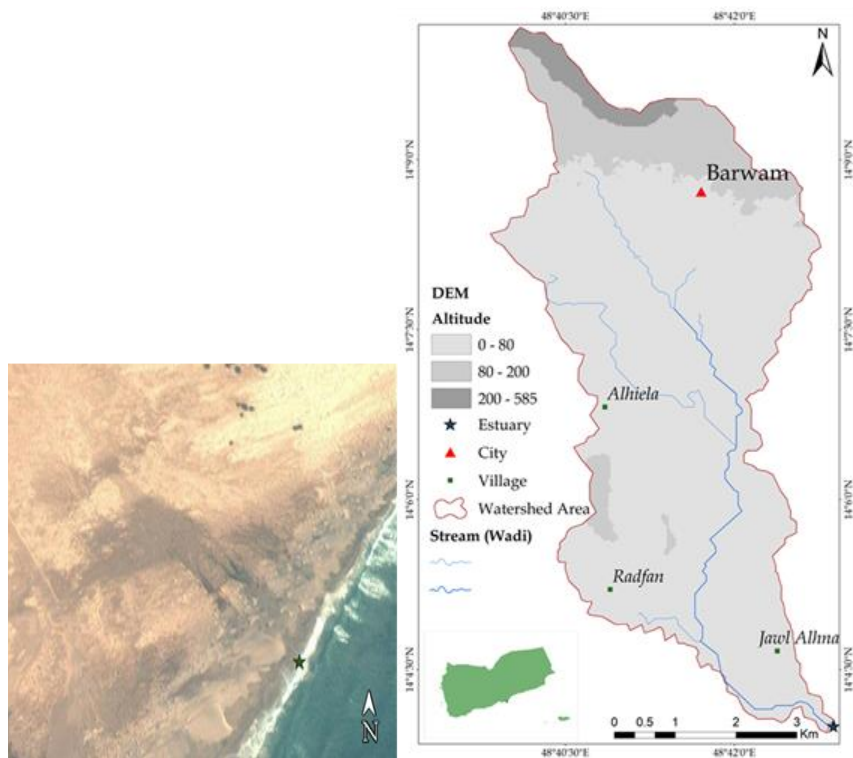


Figure 266. Oro-hydrographic Characteristics of Watershed: Alhila, Hadramawt (right)& The satellite view of Jawl Alhna Estuary (2003) (left).

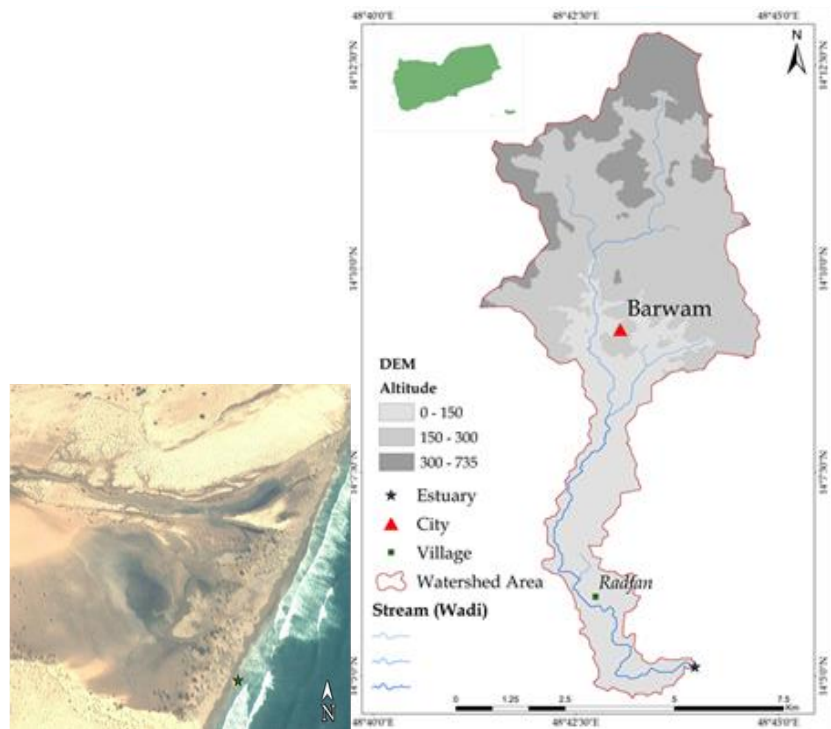


Figure 267. Oro-hydrographic Characteristics of Watershed: Yebar, Hadramawt (right)& The satellite view of Radfan Estuary (2003) (left).

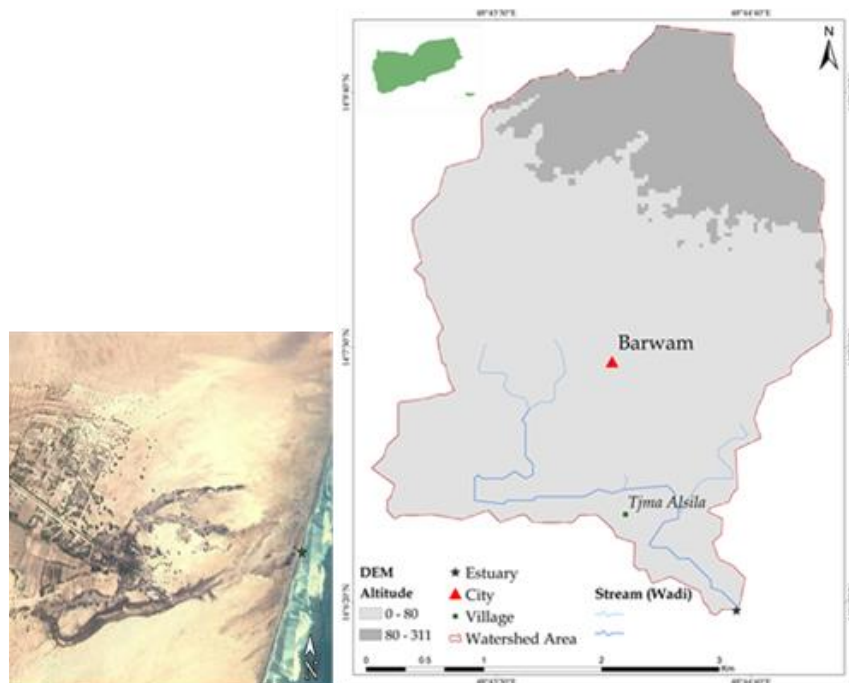


Figure 268. Oro-hydrographic Characteristics of Watershed: Habad, Hadramawt (right)& The satellite view of Tjma Alsila Estuary (2010) (left).

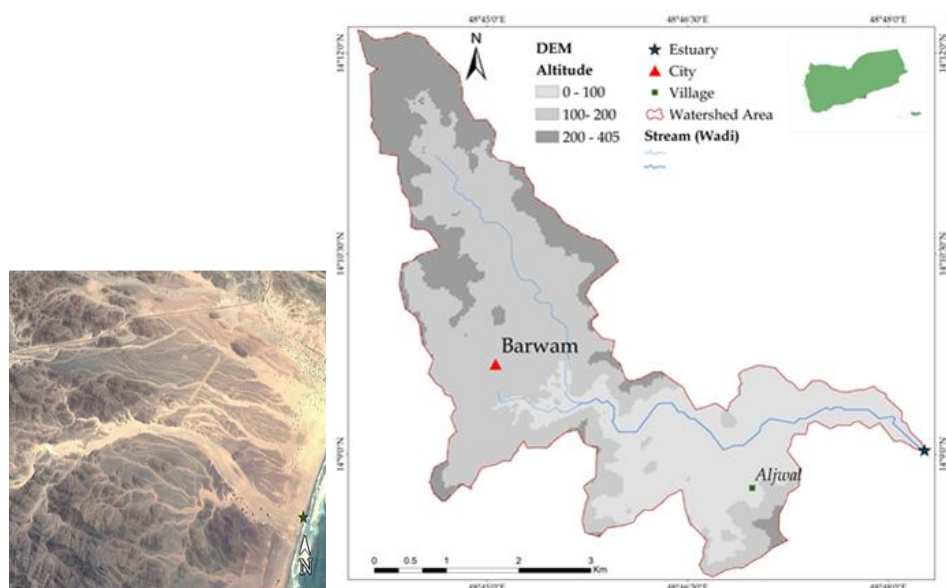


Figure 269. Oro-hydrographic Characteristics of Watershed: Almabur, Hadramawt (right)& The satellite view of Aljwal Estuary (2014) (left).

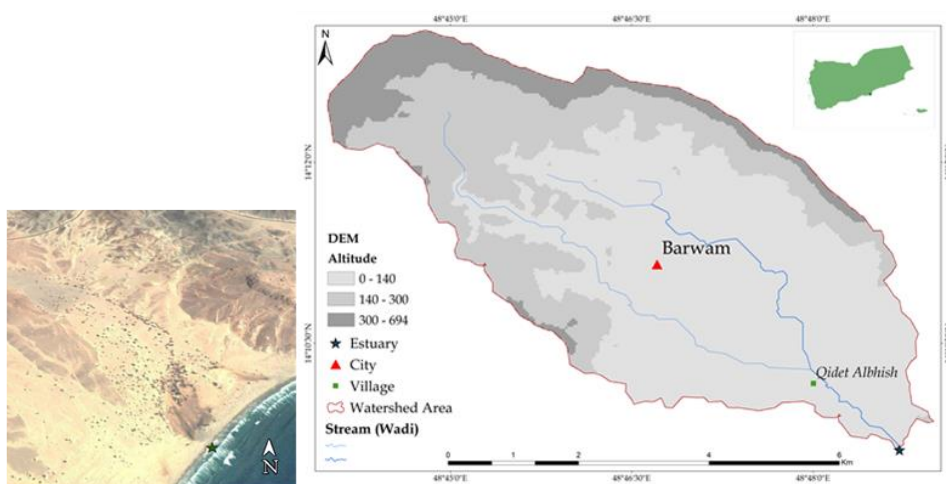


Figure 270. Oro-hydrographic Characteristics of Watershed: Albardh, Hadramawt (right)& The satellite view of Qidt Albhish Estuary (2003) (left).

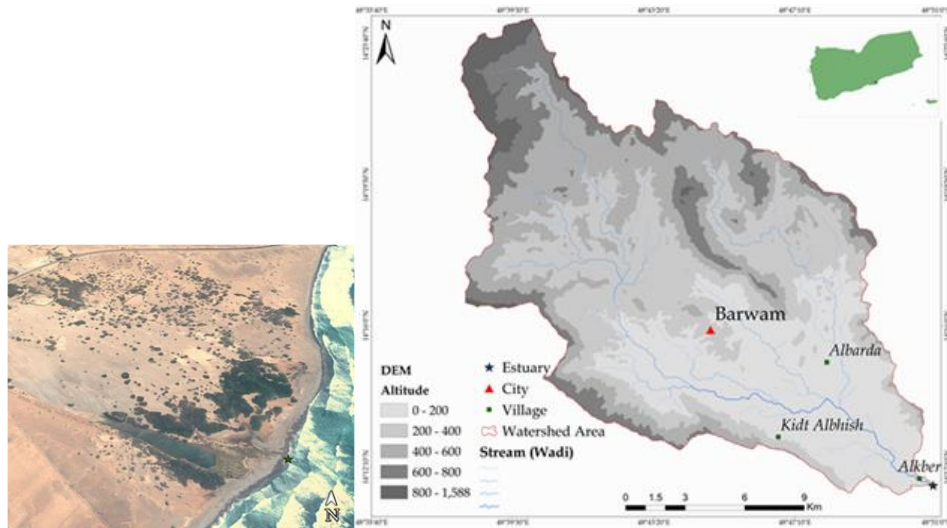


Figure 271. Oro-hydrographic Characteristics of Watershed: Aldabr, Hadramawt (right)& The satellite view of Alkber Estuary (2010) (left).

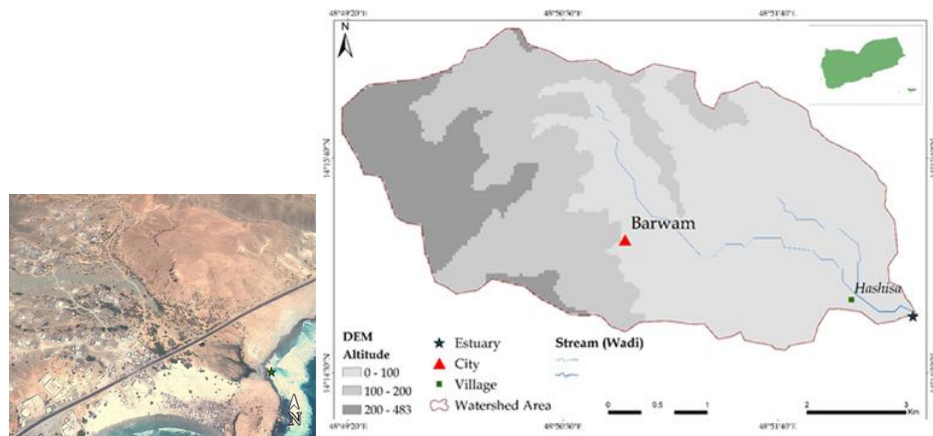


Figure 272. Oro-hydrographic Characteristics of Watershed: Padwi, Hadramawt (right)& The satellite view of Hashisa Estuary (2010) (left).

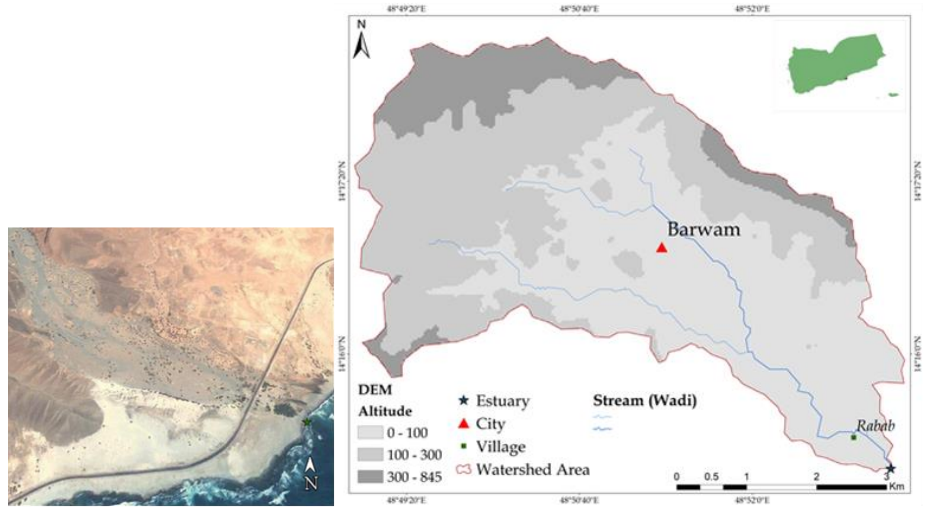


Figure 273. Oro-hydrographic Characteristics of Watershed: Almahmdian, Hadramawt (right)& The satellite view of Rabab Estuary (2010) (left).

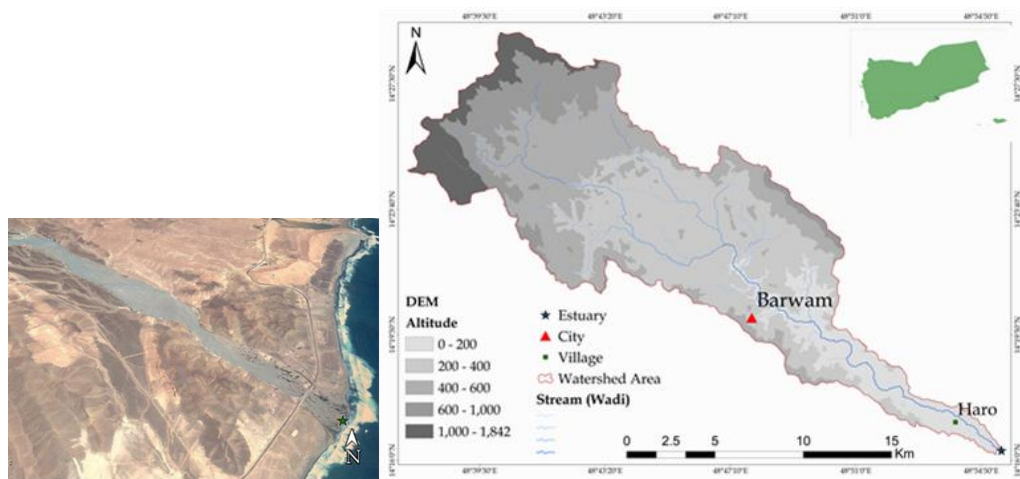


Figure 274. Oro-hydrographic Characteristics of Watershed: Haro, Hadramawt (right)& The satellite view of Haro Estuary (2010) (left).

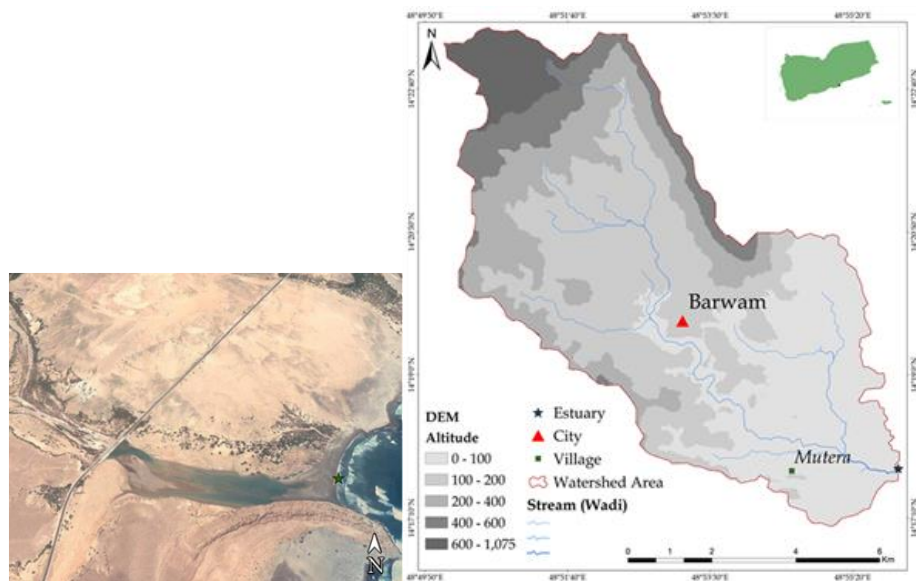


Figure 275. Oro-hydrographic Characteristics of Watershed: Tjema, Hadramawt (right)& The satellite view of Mutra Estuary (2010) (left).

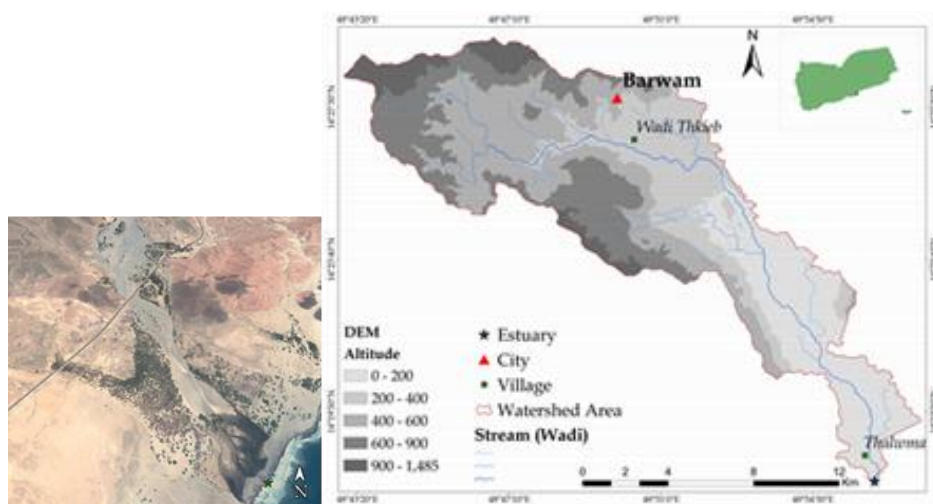


Figure 276. Oro-hydrographic Characteristics of Watershed: Naqeb, Hadramawt (right)& The satellite view of Thalwma Estuary (2010) (left).

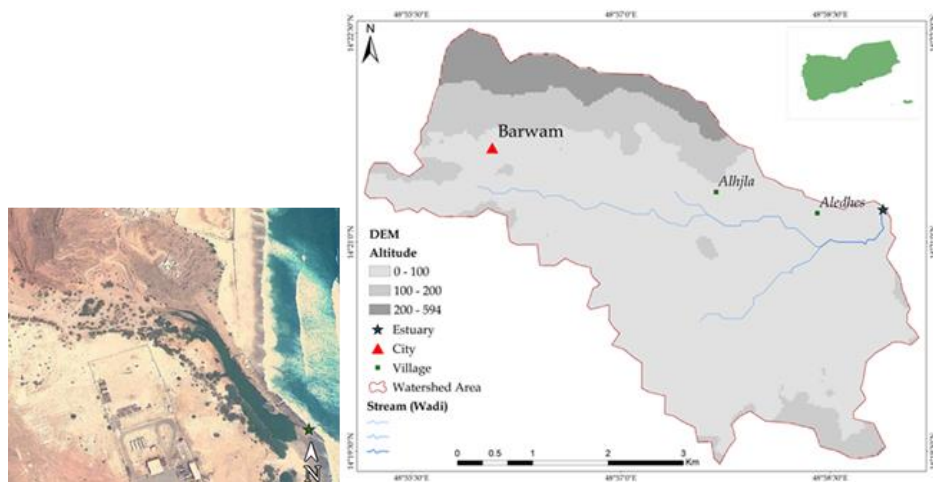


Figure 277. Oro-hydrographic Characteristics of Watershed: Alhjala, Hadramawt (right)& The satellite view of Aledhes Estuary (2010) (left).

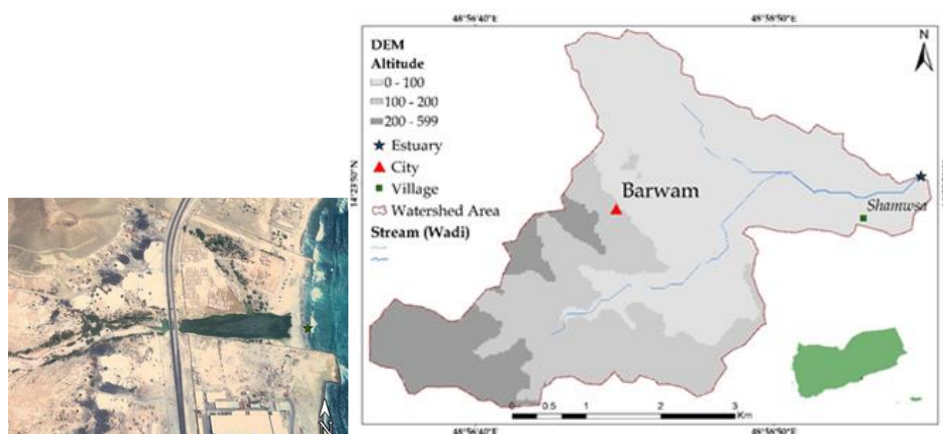


Figure 278. Oro-hydrographic Characteristics of Watershed: Bahjeri, Hadramawt (right)& The satellite view of Shamwsa Estuary (2010) (left).

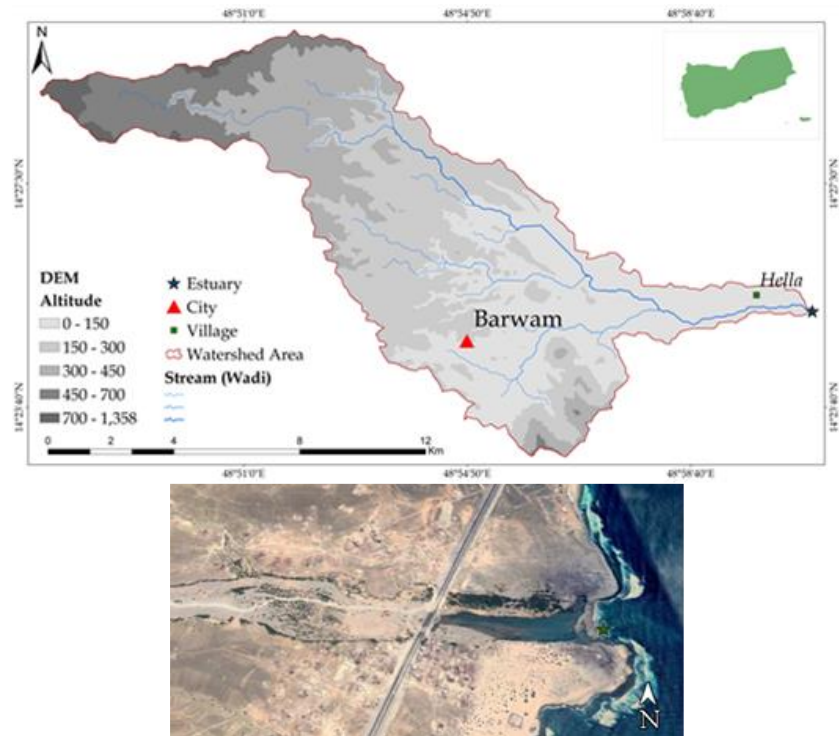


Figure 279. Oro-hydrographic Characteristics of Watershed: Jwel Alriad, Hadramawt (right)& The satellite view of Hella Estuary (2010) (below).

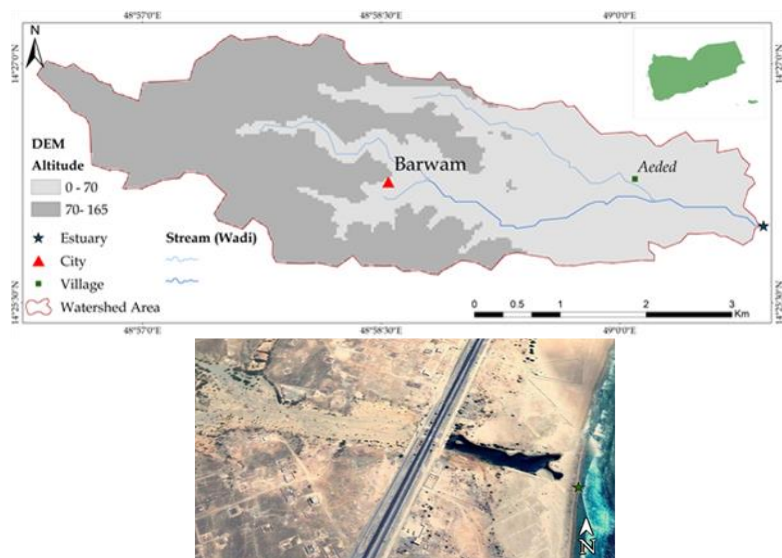


Figure 280. Oro-hydrographic Characteristics of Watershed: Aeed, Hadramawt (right)& The satellite view of Aeed Estuary (2010) (below).

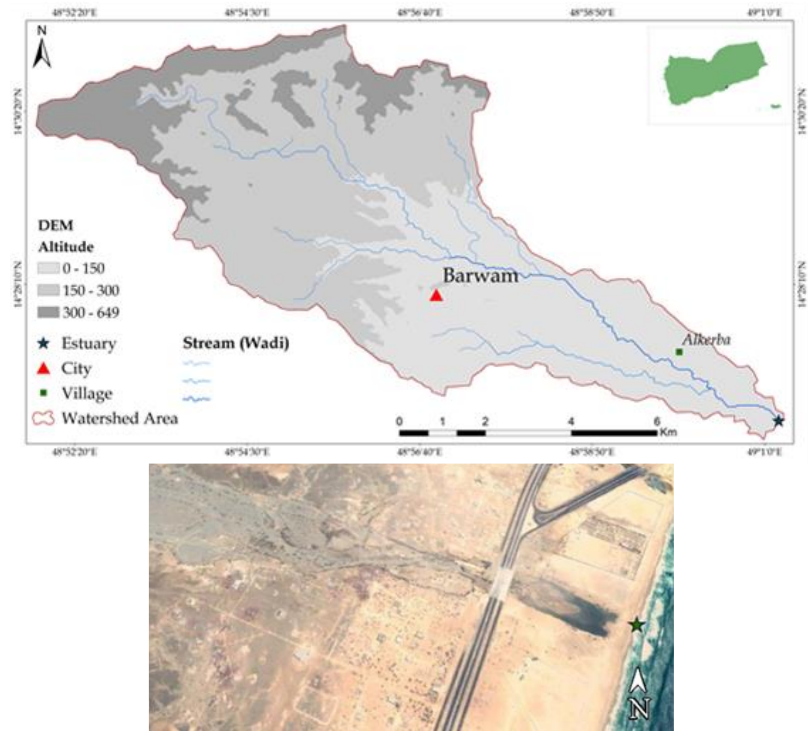


Figure 281. Oro-hydrographic Characteristics of Watershed: Bahjeri, Hadramawt (right)& The satellite view of Alkerba Estuary (2010) (below).

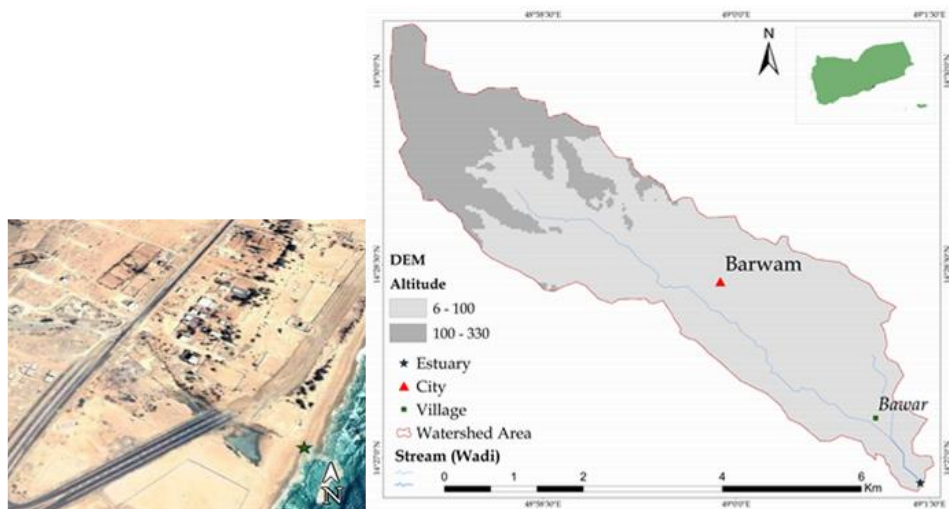


Figure 282. Oro-hydrographic Characteristics of Watershed: Kalbwet, Hadramawt (right)& The satellite view of Bwar Estuary (2010) (left).

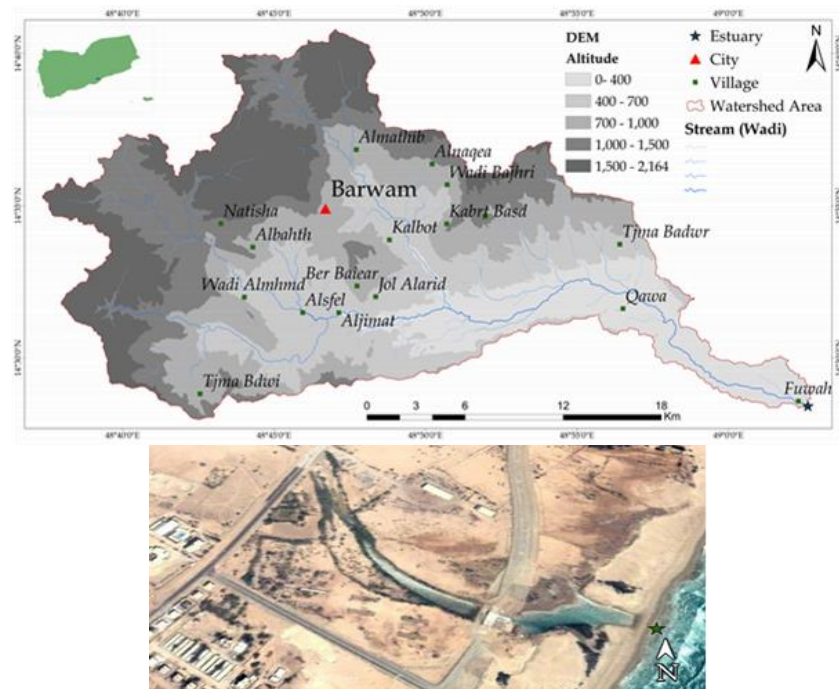


Figure 283. Oro-hydrographic Characteristics of Watershed: Fuwah, Hadramawt (right)& The satellite view of Fuwah Estuary (2010) (below).

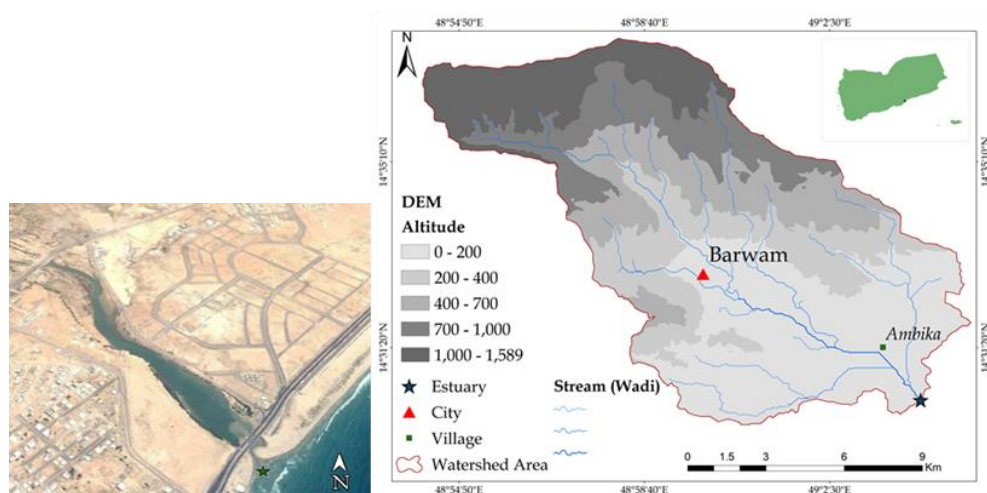


Figure 284. Oro-hydrographic Characteristics of Watershed: Shehwra, Hadramawt (right)& The satellite view of Ambika Estuary (2009) (left).

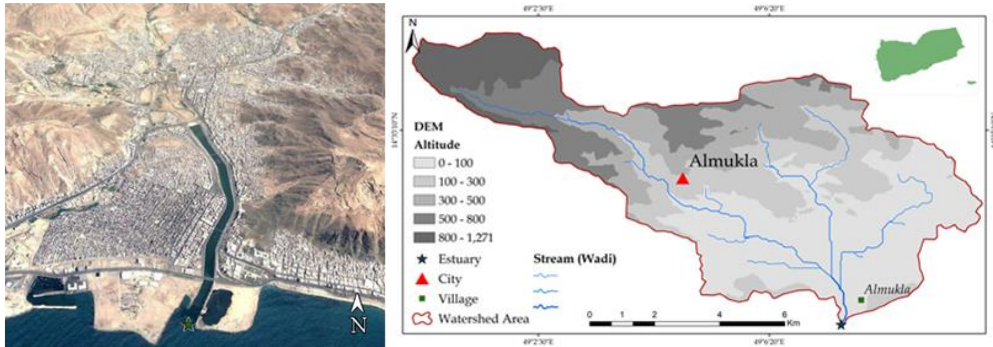


Figure 285. Oro-hydrographic Characteristics of Watershed: Almasna, Hadramawt (right)& The satellite view of Almukla Estuary (2009) (left).

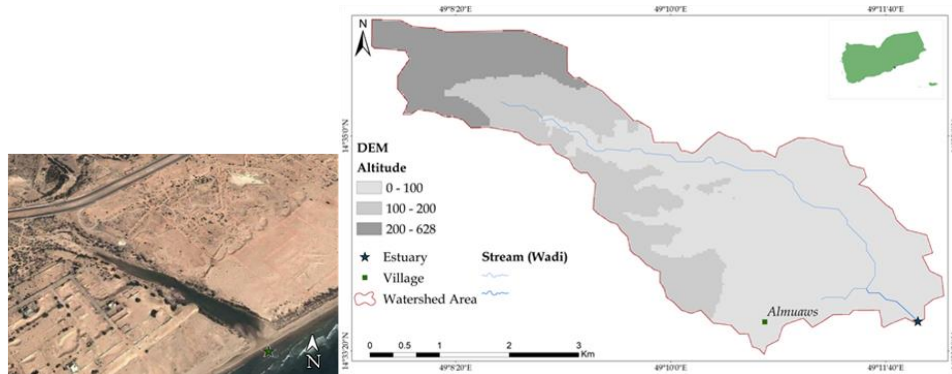


Figure 286. Oro-hydrographic Characteristics of Watershed: Heirh, Hadramawt (right)& The satellite view of Almuaws Estuary (2012) (left).

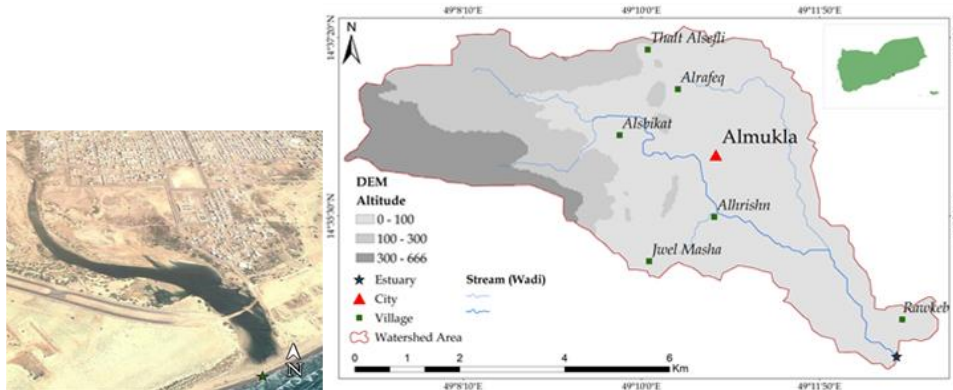


Figure 287. Oro-hydrographic Characteristics of Watershed: Almhni, Hadramawt (right)& The satellite view of Rawkeb Estuary (2009) (left).

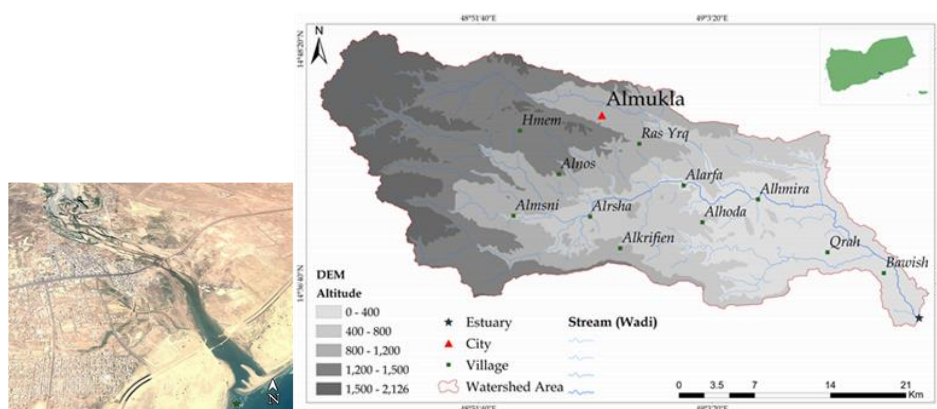


Figure 288. Oro-hydrographic Characteristics of Watershed: Alhawi, Hadramawt (right)& The satellite view of Bawish Estuary (2009) (left).

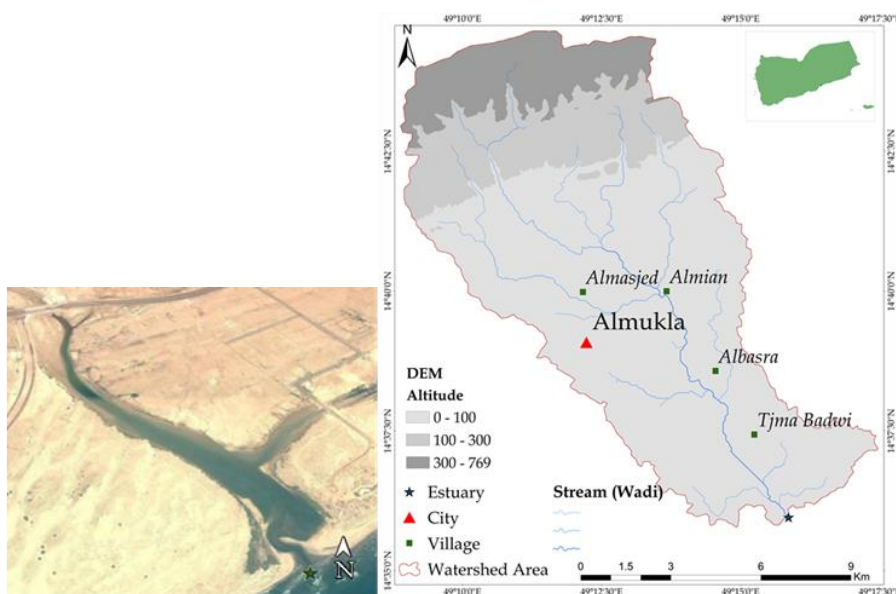


Figure 289. Oro-hydrographic Characteristics of Watershed: Falek, Hadramawt (right)& The satellite view of Tjma Badwi Estuary (2009) (left).

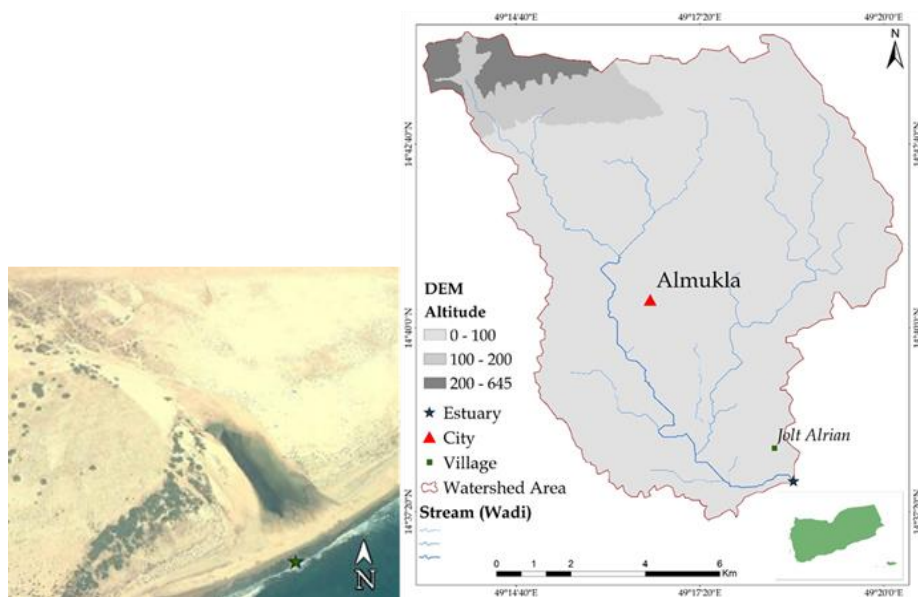


Figure 290. Oro-hydrographic Characteristics of Watershed: Alrida, Hadramawt (right)& The satellite view of Jwlet Alrian Estuary (2009) (left).

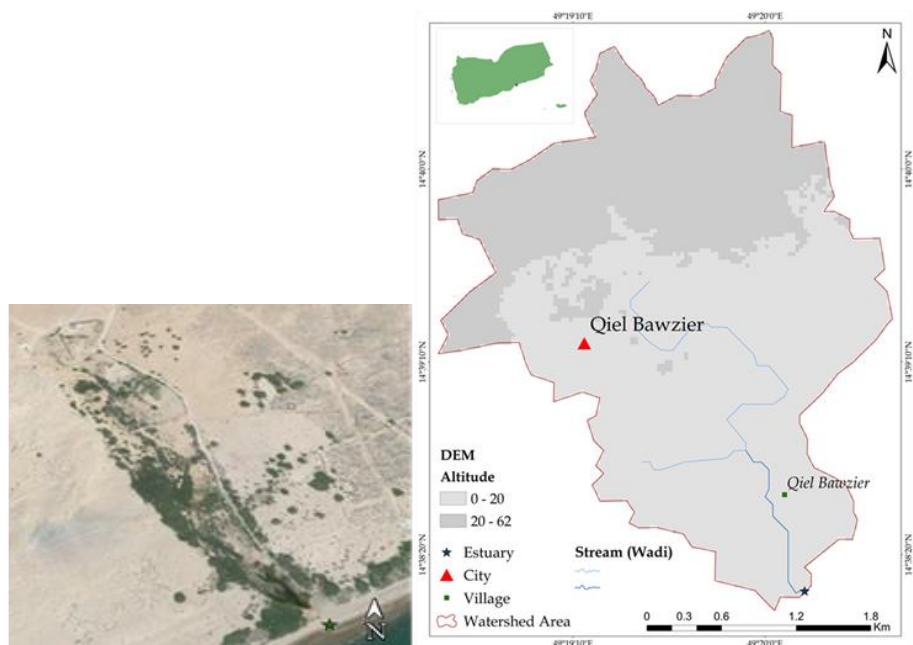


Figure 291. Oro-hydrographic Characteristics of Watershed: Kariab, Hadramawt (right)& The satellite view of Qiel Bawzier Estuary (2013) (left).

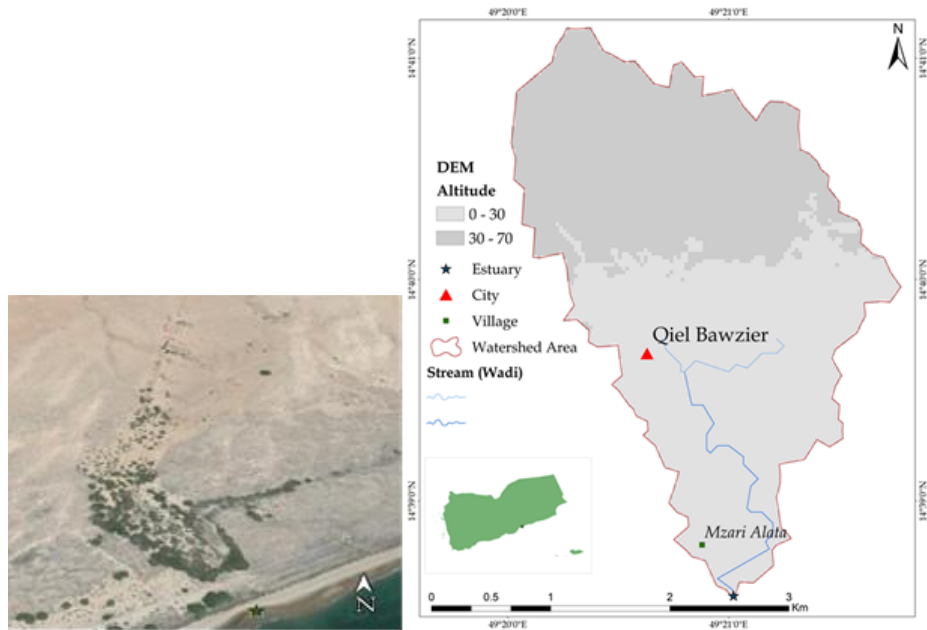


Figure 292. Oro-hydrographic Characteristics of Watershed: Ashan, Hadramawt (right)& The satellite view of Mzari Alata Estuary (2013) (left).

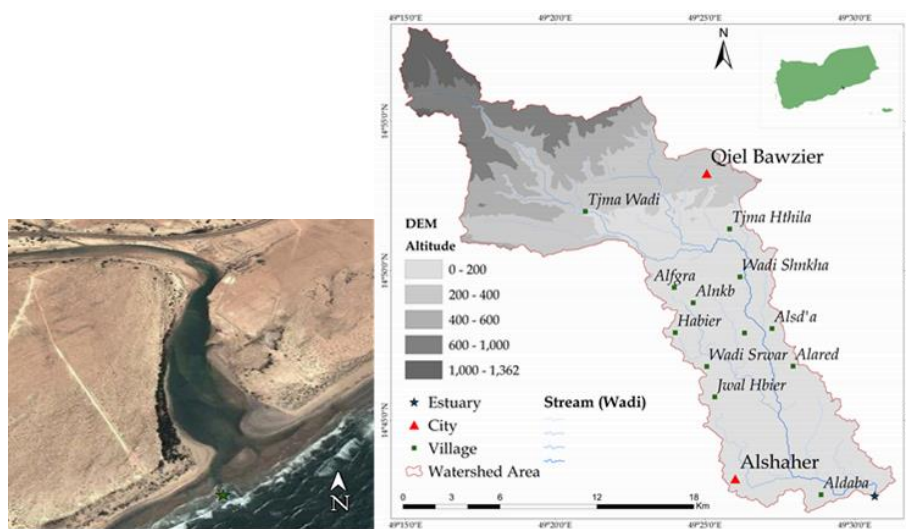


Figure 293. Oro-hydrographic Characteristics of Watershed: Maina, Hadramawt (right)& The satellite view of Aldaba Estuary (2012) (left).

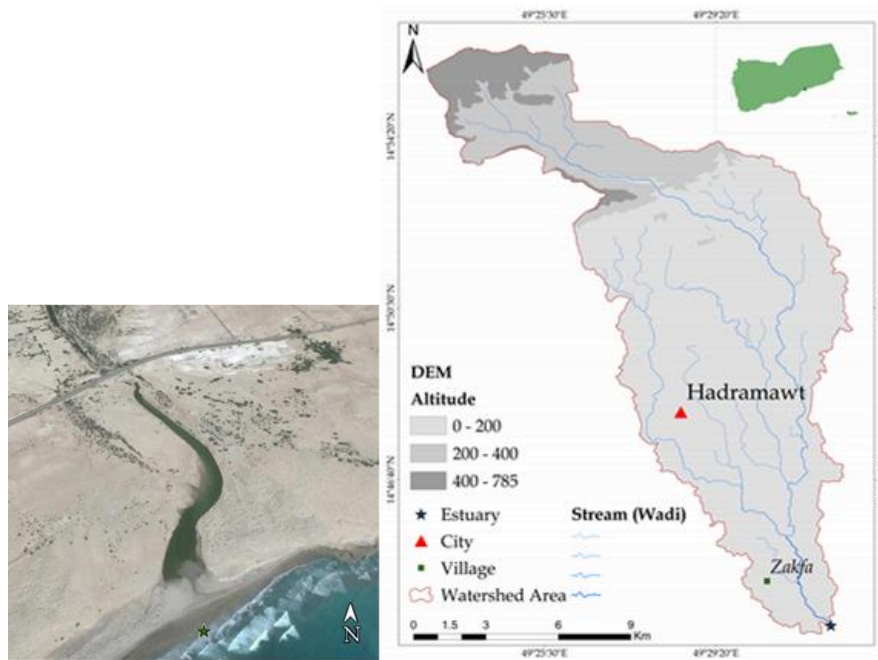


Figure 294. Oro-hydrographic Characteristics of Watershed: Bawazier, Hadramawt (right)& The satellite view of Zakfa Estuary (2016) (left).

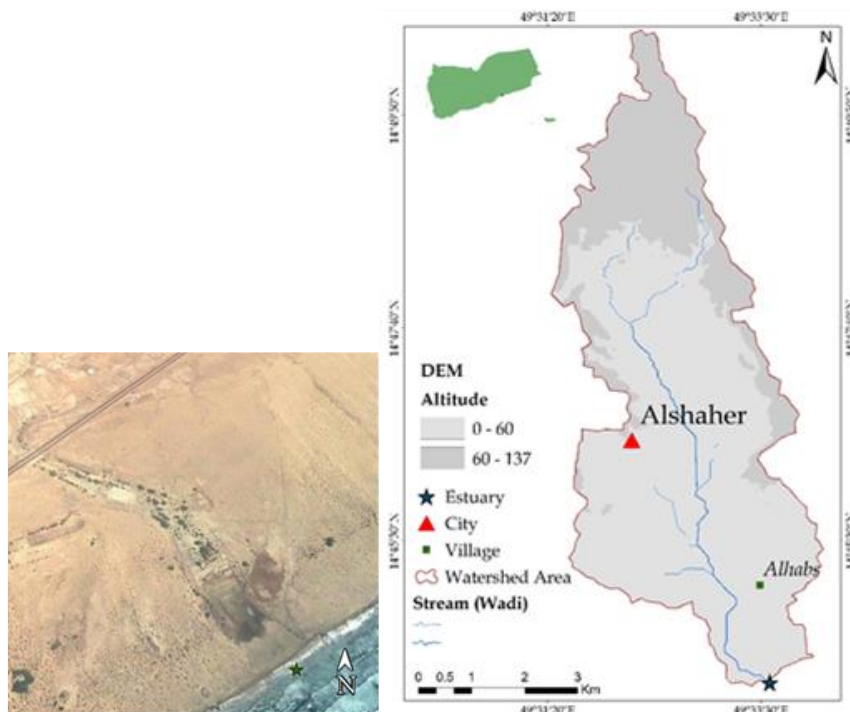


Figure 295. Oro-hydrographic Characteristics of Watershed: Alhabs, Hadramawt (right)& The satellite view of Alhabs Estuary (2009) (left).

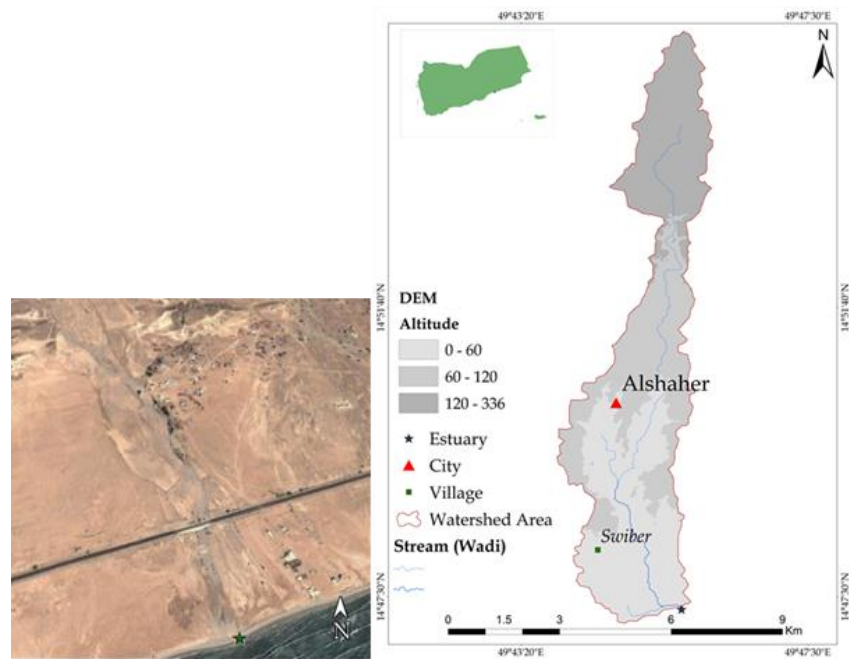


Figure 296. Oro-hydrographic Characteristics of Watershed: Tamneh, Hadramawt (right)& The satellite view of Swiber Estuary (2012) (left).

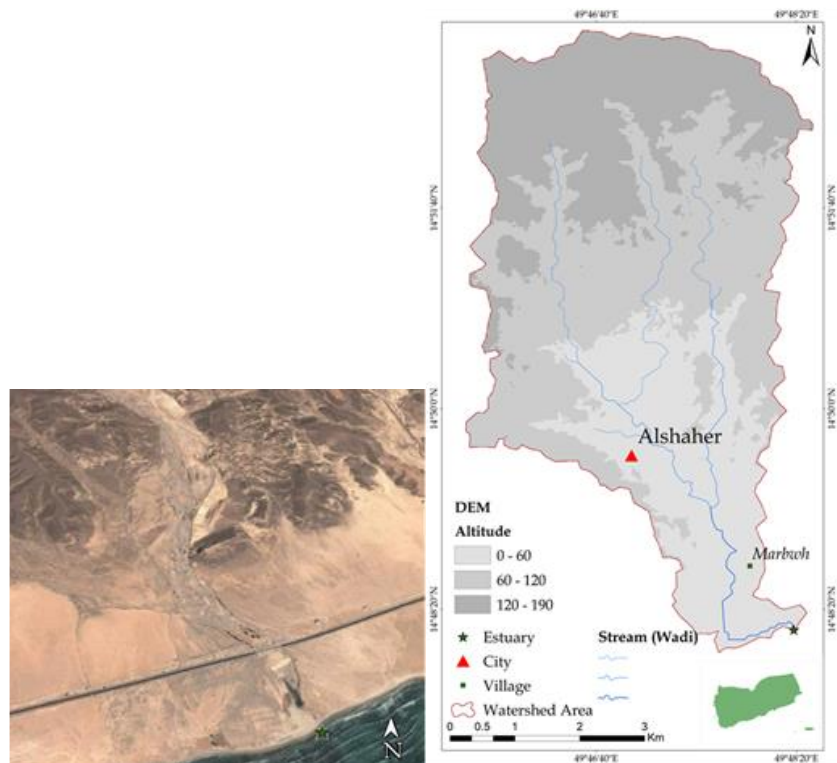


Figure 297. Oro-hydrographic Characteristics of Watershed: Hazha, Hadramawt (right)& The satellite view of Marbwh Estuary (2012) (left).

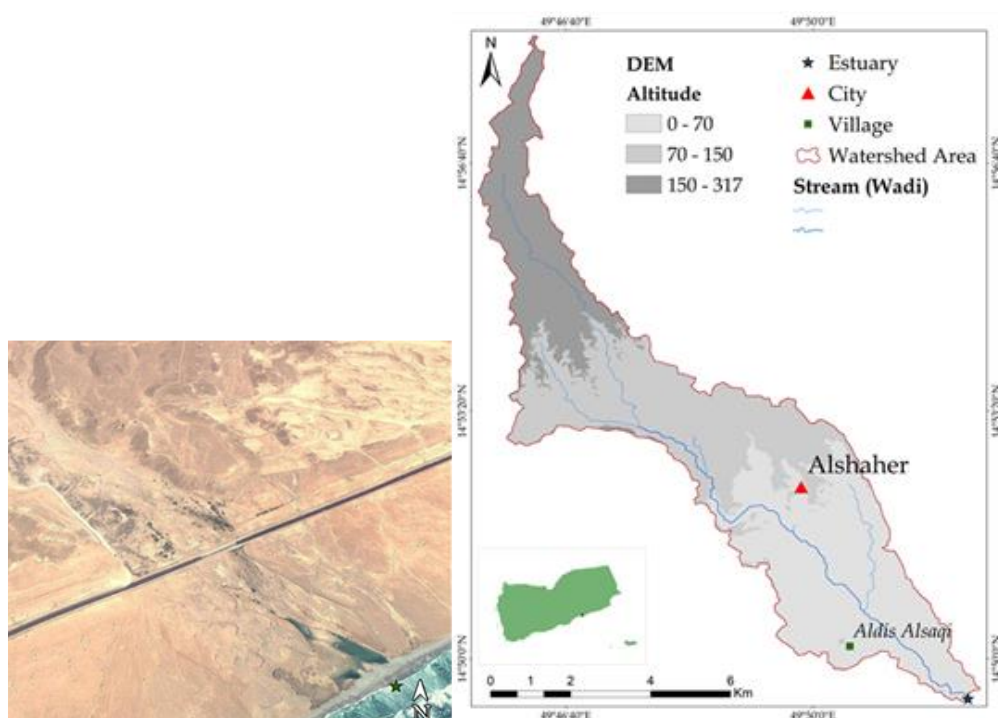


Figure 298. Oro-hydrographic Characteristics of Watershed: Rathad, Hadramawt (right)& The satellite view of Aldis Estuary (2009) (left).

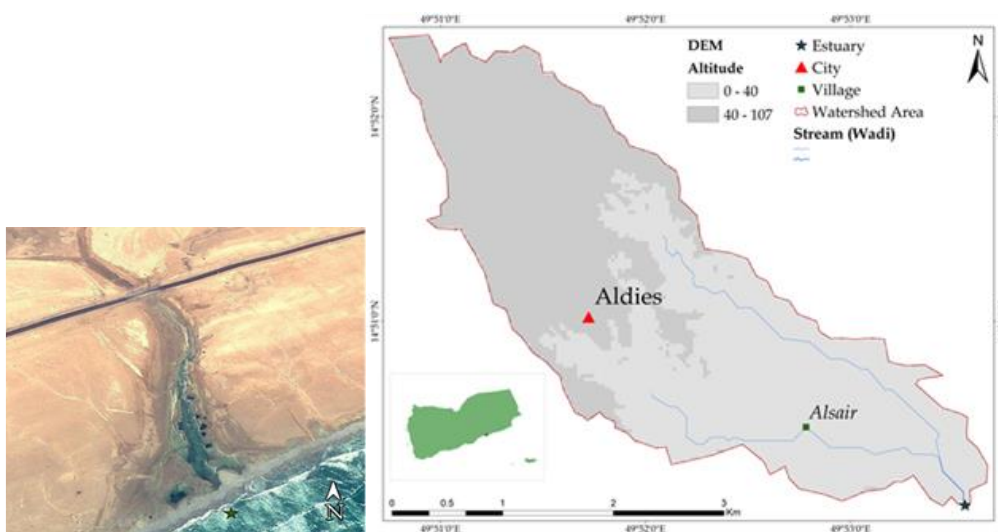


Figure 299. Oro-hydrographic Characteristics of Watershed: Faried, Hadramawt (right)& The satellite view of Alsair Estuary (2009) (left).

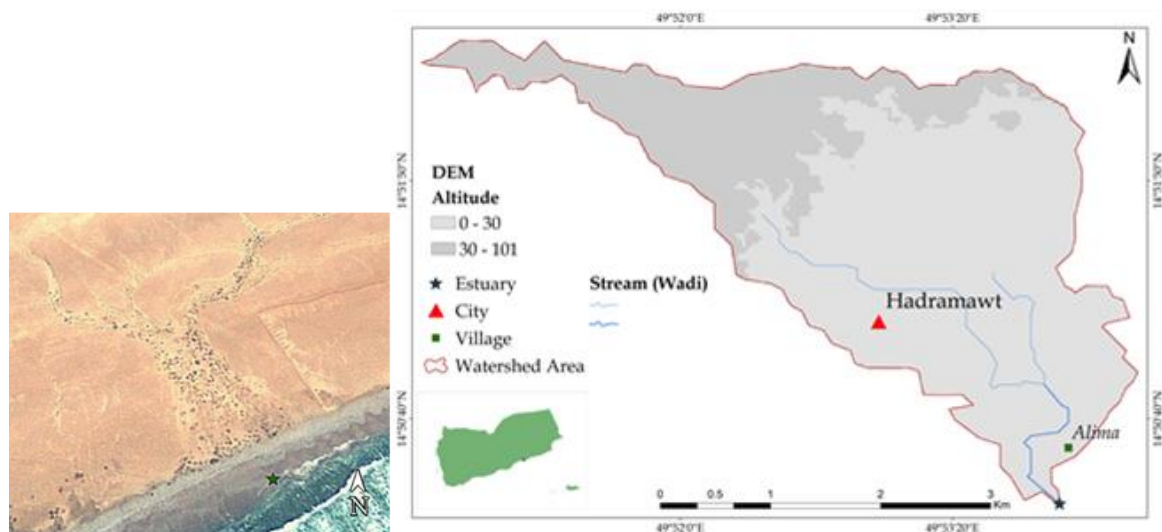


Figure 300. Oro-hydrographic Characteristics of Watershed: Wadi Alymah, Hadramawt (right)& The satellite view of Alima Estuary (2009) (left).

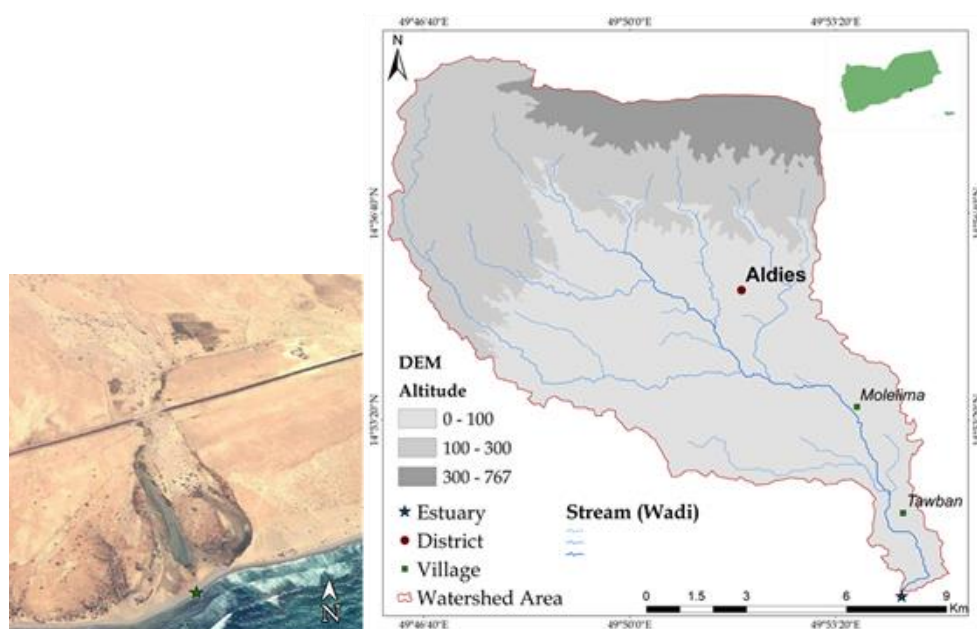


Figure 301. Oro-hydrographic Characteristics of Watershed: Maqra, Hadramawt (right)& The satellite view of Tawban Estuary (2012) (left).

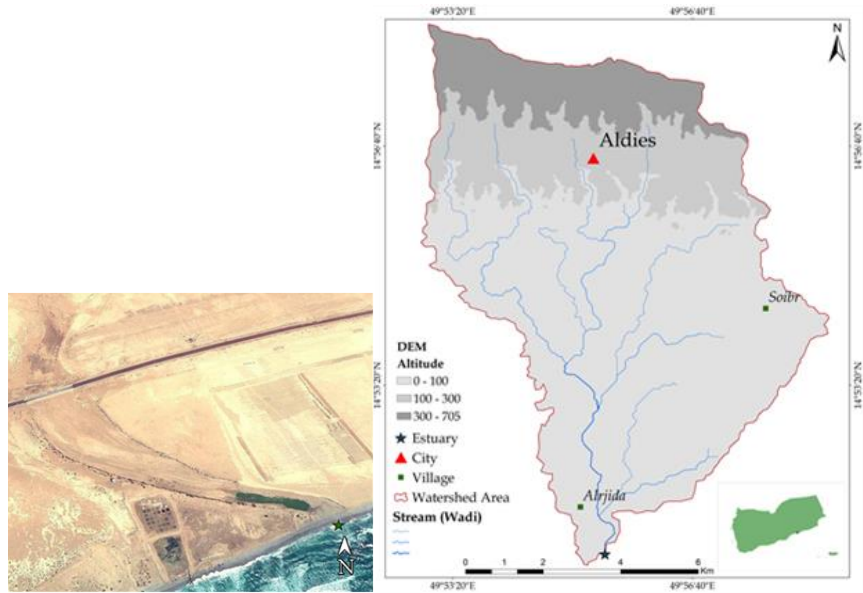


Figure 302. Oro-hydrographic Characteristics of Watershed: Kamwada, Hadramawt (right)& The satellite view of Alrjida Estuary (2009) (left).

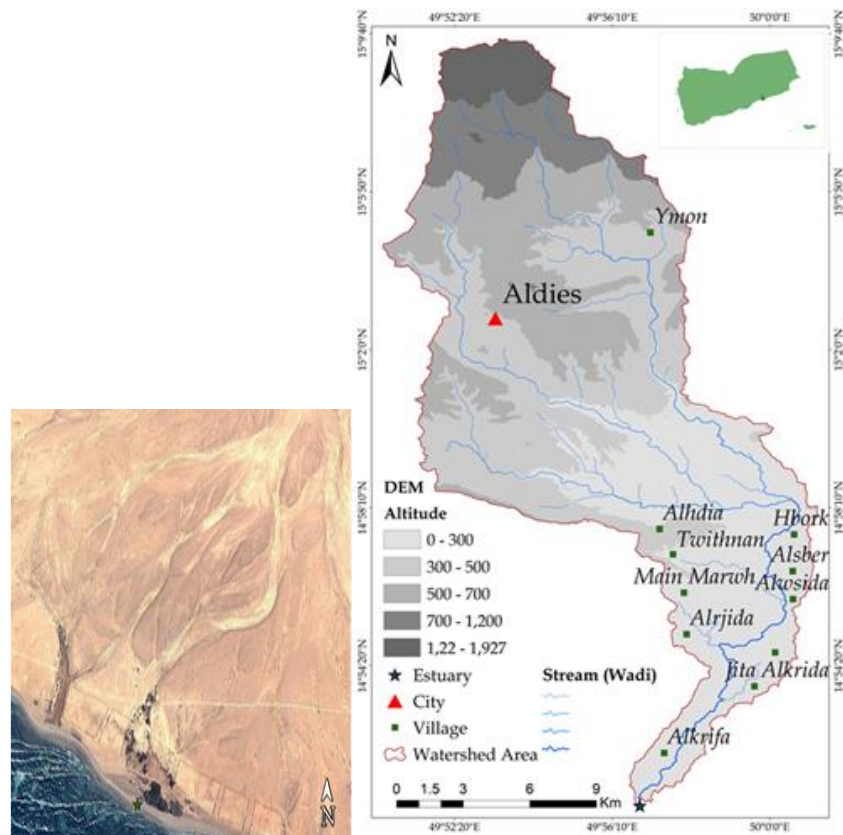


Figure 303. Oro-hydrographic Characteristics of Watershed: Dayes, Hadramawt (right)& The satellite view of Alkrifa Estuary (2009) (left).

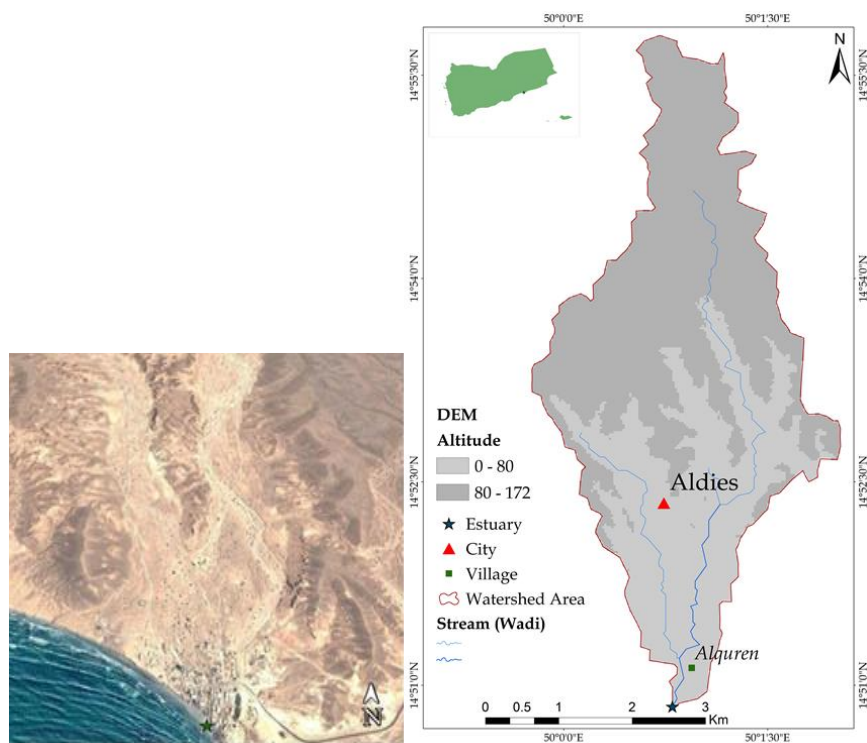


Figure 304. Oro-hydrographic Characteristics of Watershed: Habwark, Hadramawt (right)& The satellite view of Alqurn Estuary (2009) (left).

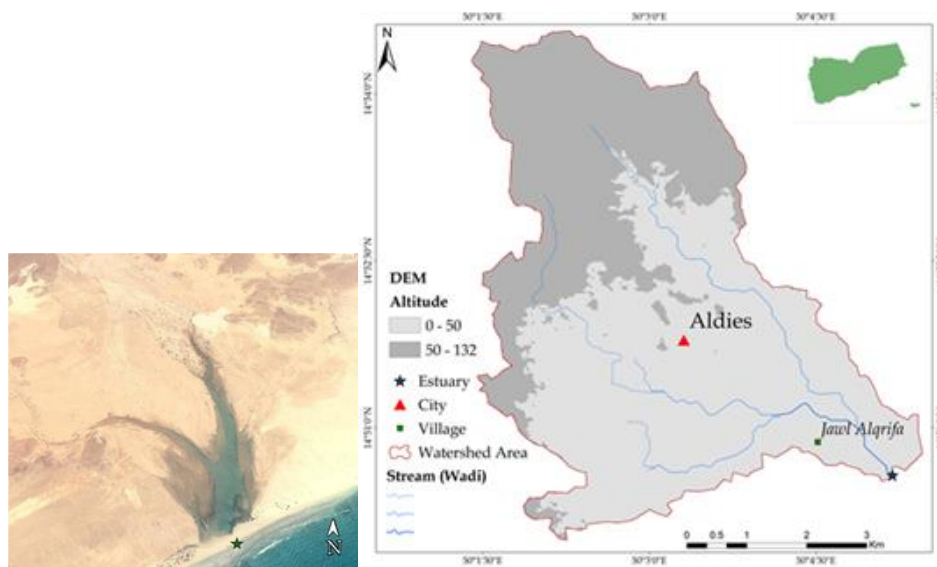


Figure 305. Oro-hydrographic Characteristics of Watershed: Halfwen, Hadramawt (right)& The satellite view of Jawl Alqrifa Estuary (2005) (left).

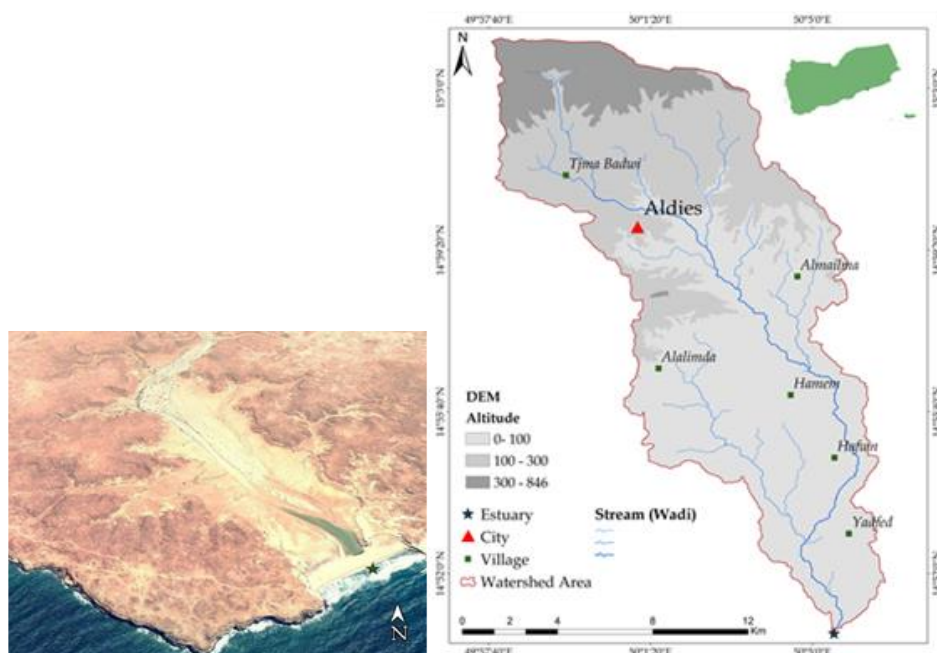


Figure 306. Oro-hydrographic Characteristics of Watershed: Sabah, Hadramawt (right)& The satellite view of Yafed Estuary (2009) (left).

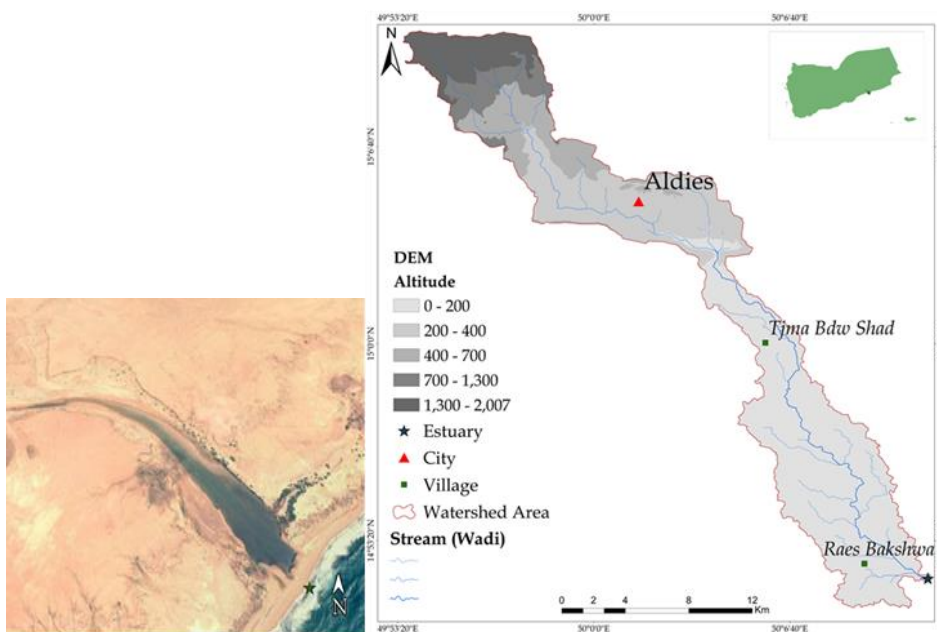


Figure 307. Oro-hydrographic Characteristics of Watershed: Shazwera, Hadramawt (right)& The satellite view of Raes Bakshwa Estuary (2009) (left).

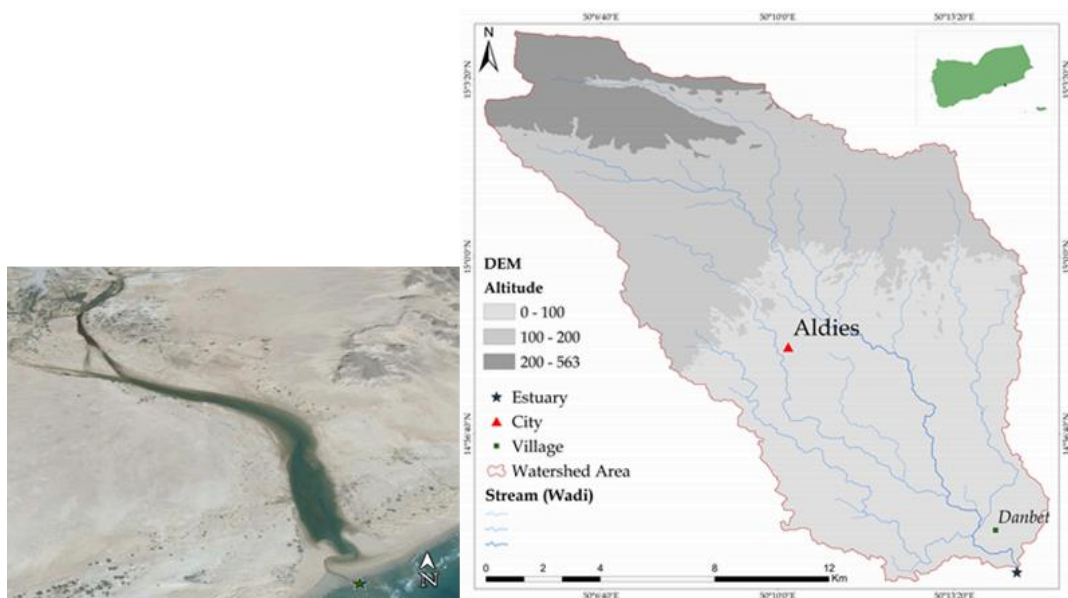


Figure 308. Oro-hydrographic Characteristics of Watershed: Alqwadrin, Hadramawt (right)& The satellite view of Dnbet Estuary (2015) (left).

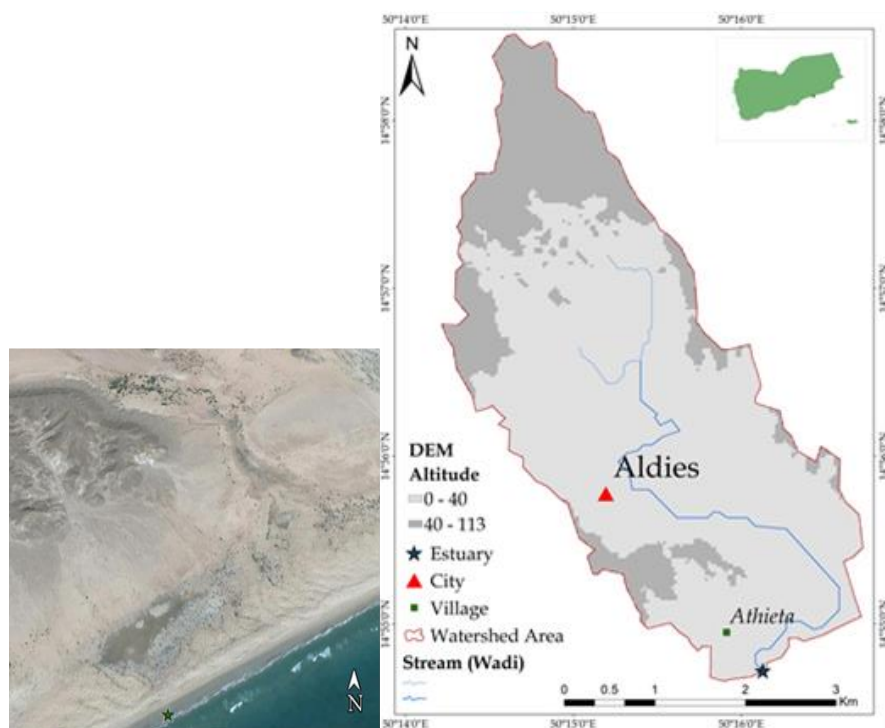


Figure 309. Oro-hydrographic Characteristics of Watershed: Thenabat, Hadramawt (right)& The satellite view of Athieta Estuary (2015) (left).

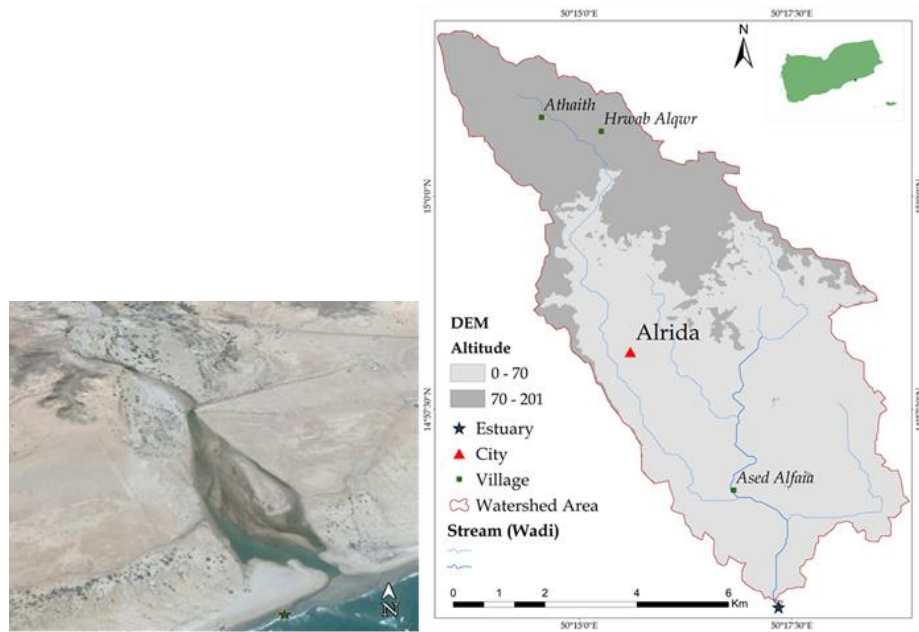


Figure 310. Oro-hydrographic Characteristics of Watershed: Ased Alfaia, Hadramawt (right)& The satellite view of Ased Alfaia Estuary (2015) (left).

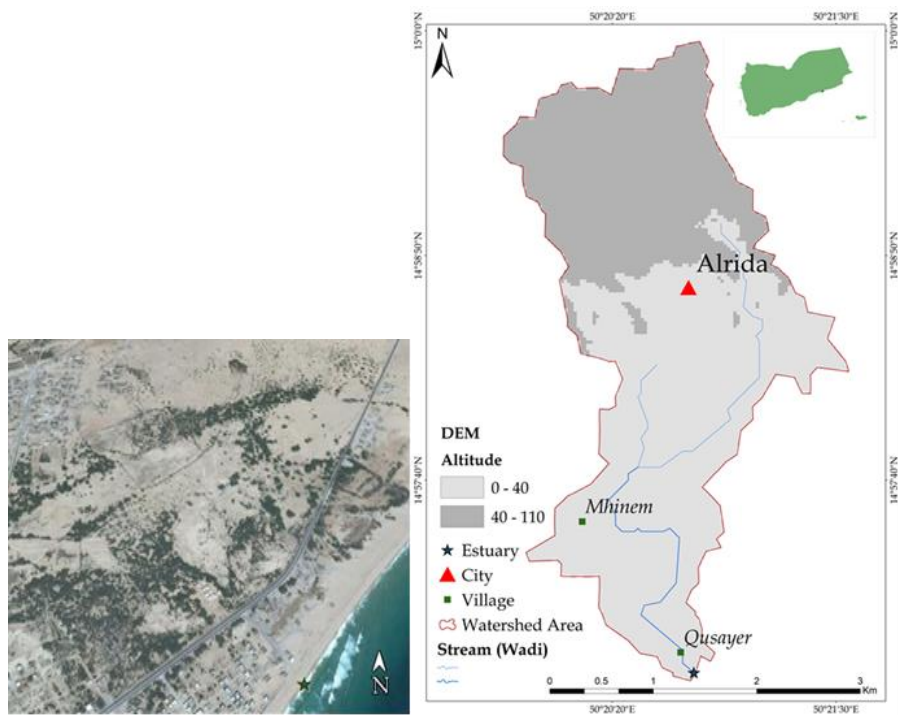


Figure 311. Oro-hydrographic Characteristics of Watershed: Qusayer, Hadramawt (right)& The satellite view of Qusayer Estuary (2015) (left).

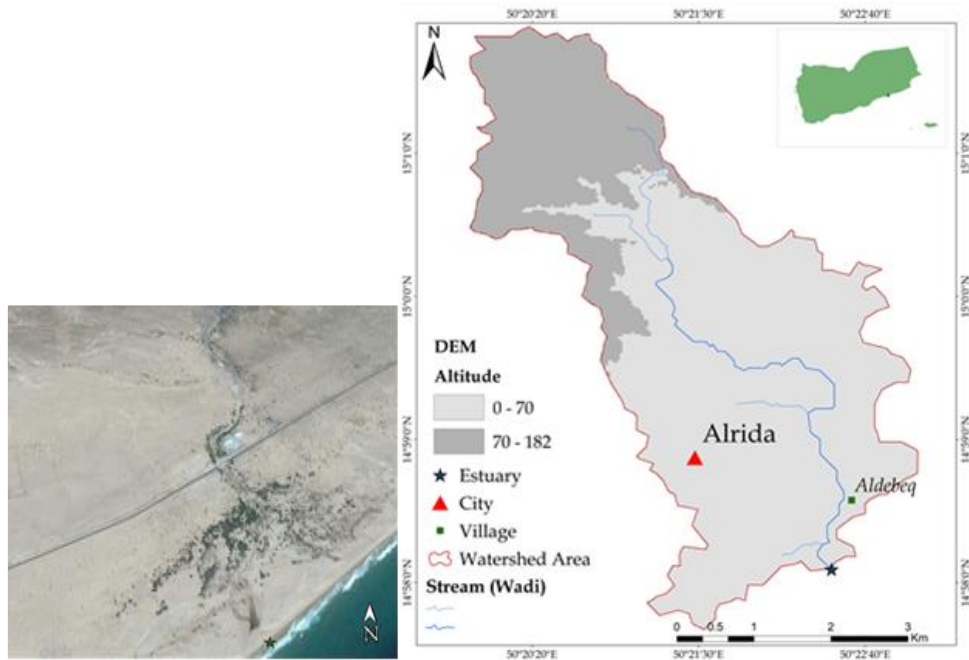


Figure 312. Oro-hydrographic Characteristics of Watershed: Alhwda, Hadramawt (right)& The satellite view of Aldebeq Estuary (2015) (left).

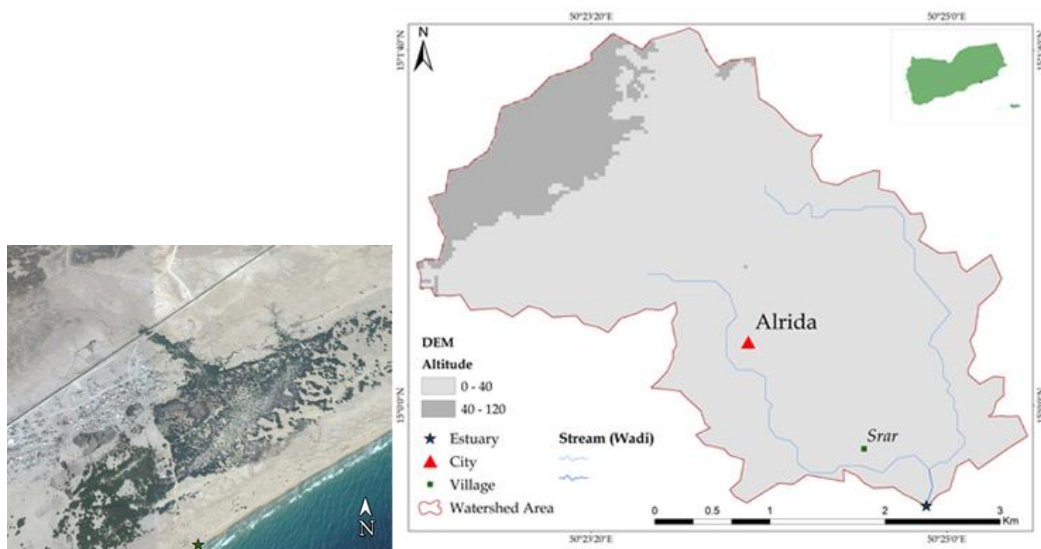


Figure 313. Oro-hydrographic Characteristics of Watershed: Alshefa, Hadramawt (right)& The satellite view of Srar Estuary (2015) (left).

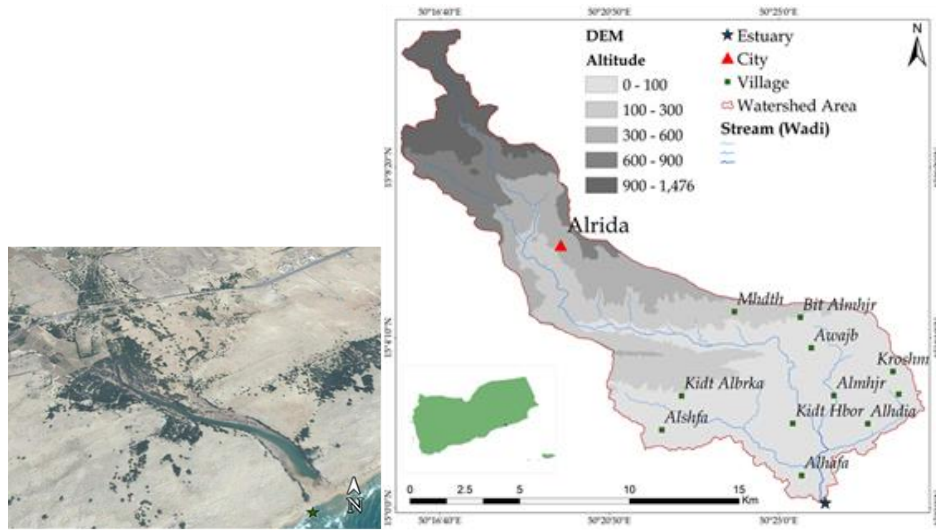


Figure 314. Oro-hydrographic Characteristics of Watershed: Nashwa, Hadramawt (right)& The satellite view of Alhafa Estuary (2015) (left).

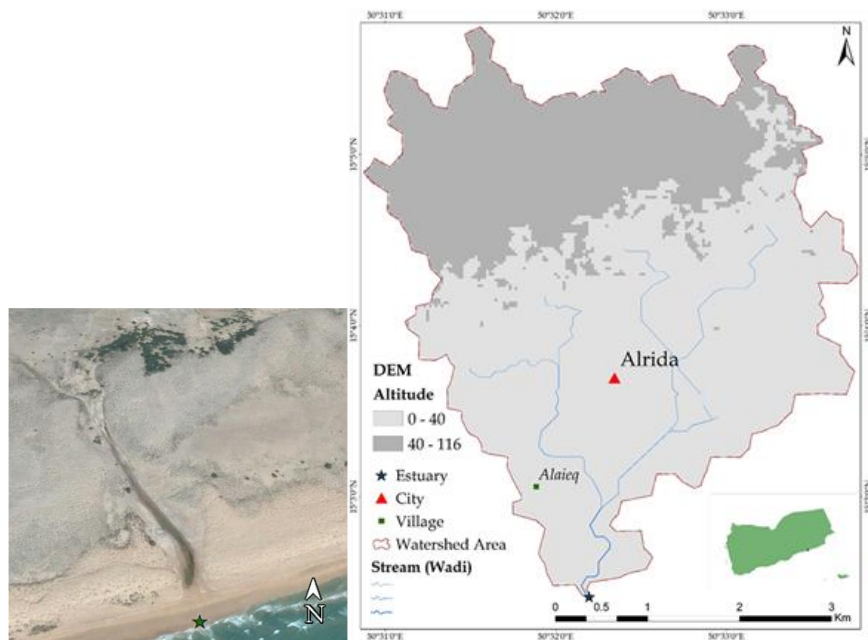


Figure 315. Oro-hydrographic Characteristics of Watershed: Haid, Hadramawt (right)& The satellite view of Alaieq Estuary (2015) (left).

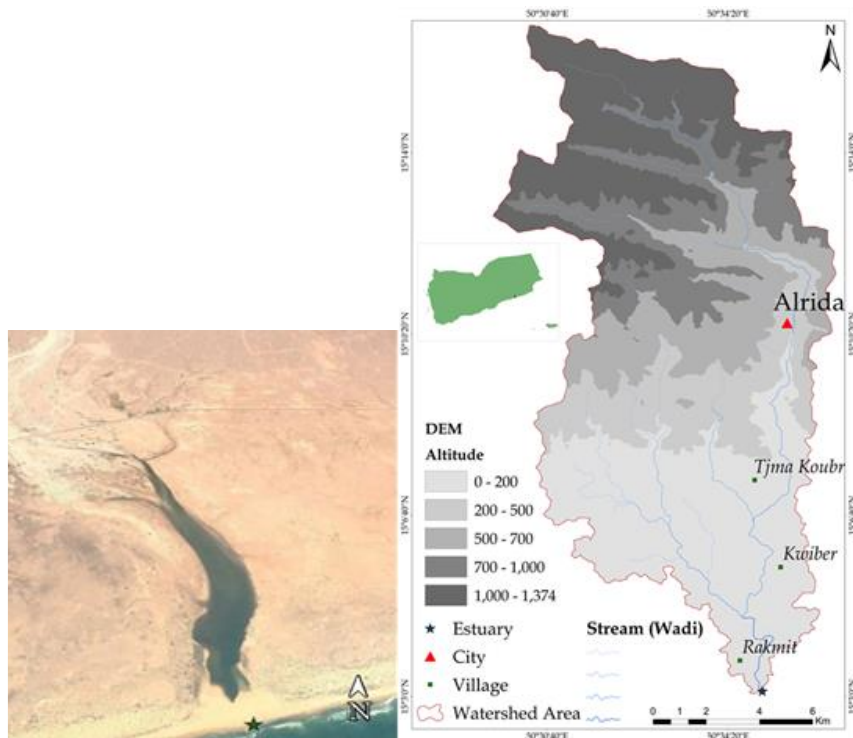


Figure 316. Oro-hydrographic Characteristics of Watershed: Kalyweb, Hadramawt (right)& The satellite view of Rakmit Estuary (2009) (left).

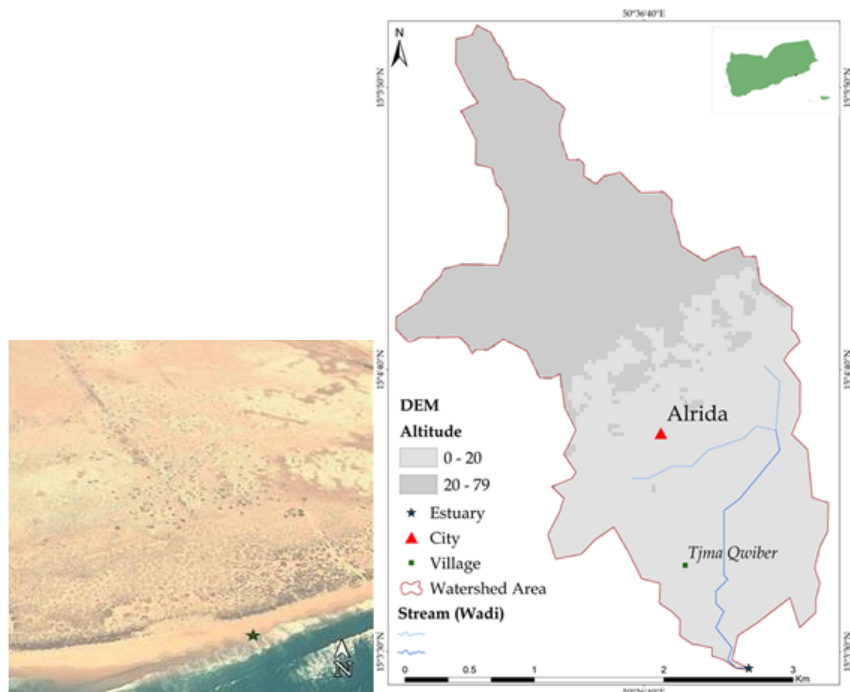


Figure 317. Oro-hydrographic Characteristics of Watershed: Alkiel, Hadramawt (right)& The satellite view of Tjma Qwiber Estuary (2009) (left).

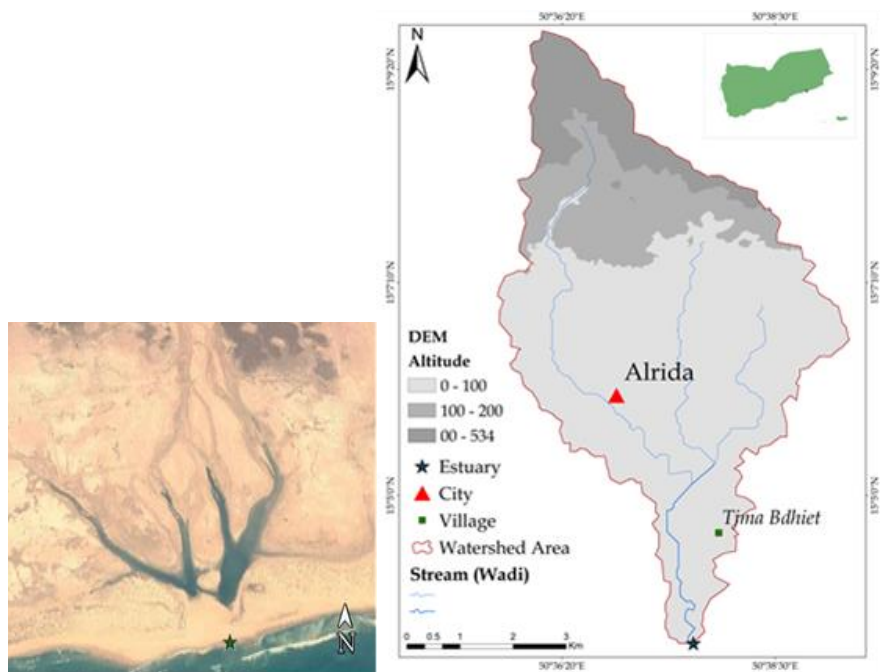


Figure 318. Oro-hydrographic Characteristics of Watershed: Tjma Bdhiyet, Hadramawt (right)& The satellite view of Bdhiyet Estuary (2009) (left).

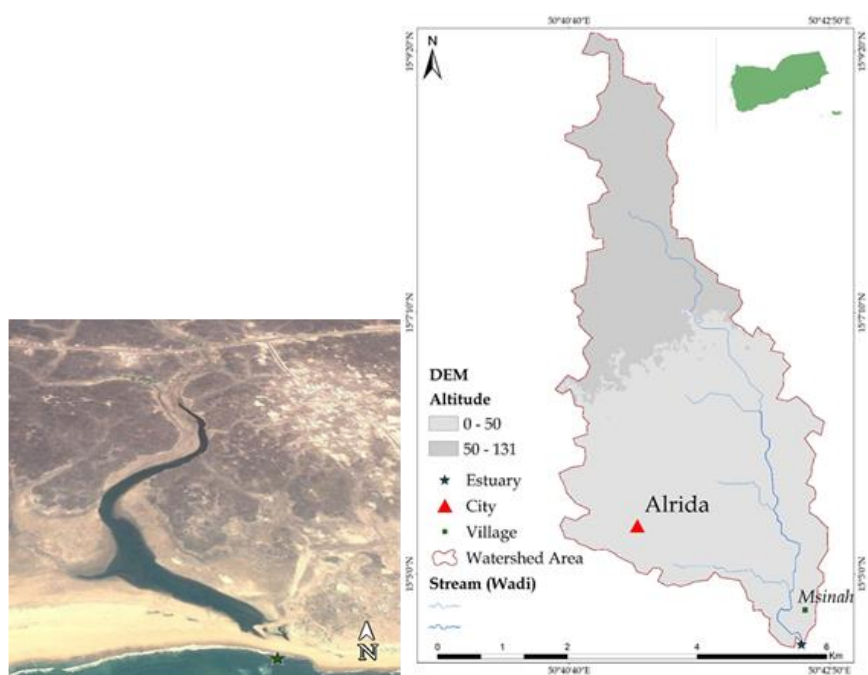


Figure 319. Oro-hydrographic Characteristics of Watershed: Alatam, Hadramawt (right)& The satellite view of Msinah Estuary (2009) (left).

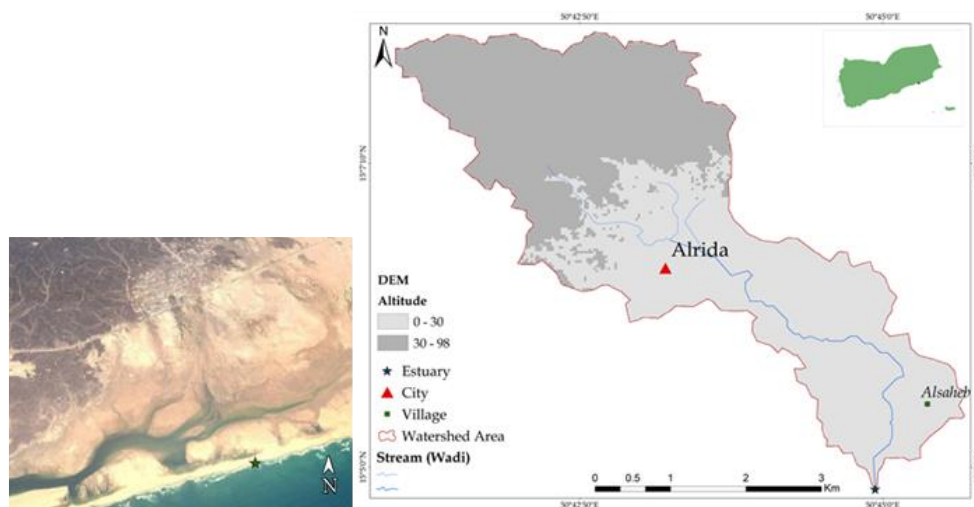


Figure 320. Oro-hydrographic Characteristics of Watershed: Mawak, Hadramawt (right)& The satellite view of Alsaheb Estuary (2015) (left).

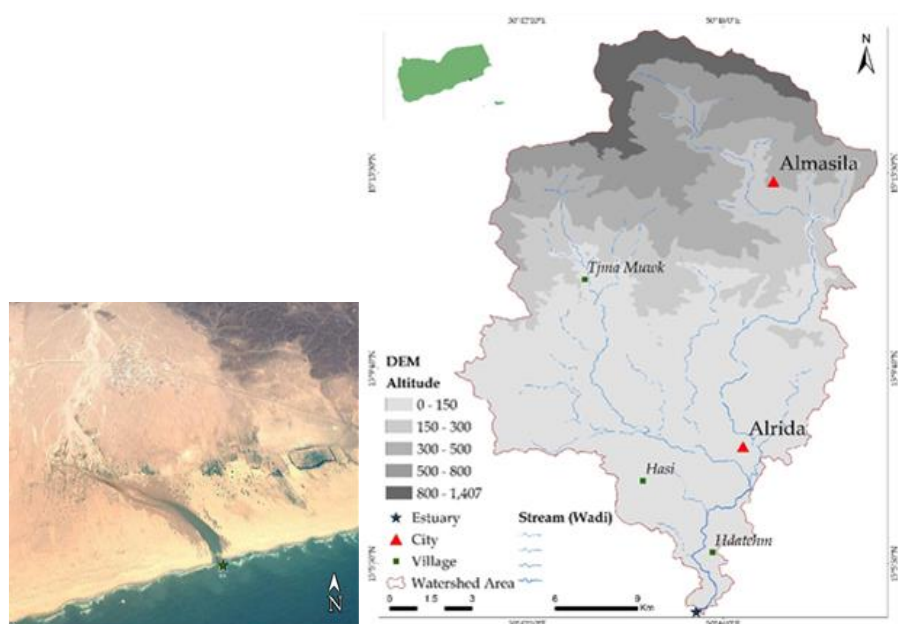


Figure 321. Oro-hydrographic Characteristics of Watershed: Hasay, Hadramawt (right)& The satellite view of Hdatehm Estuary (2015) (left).

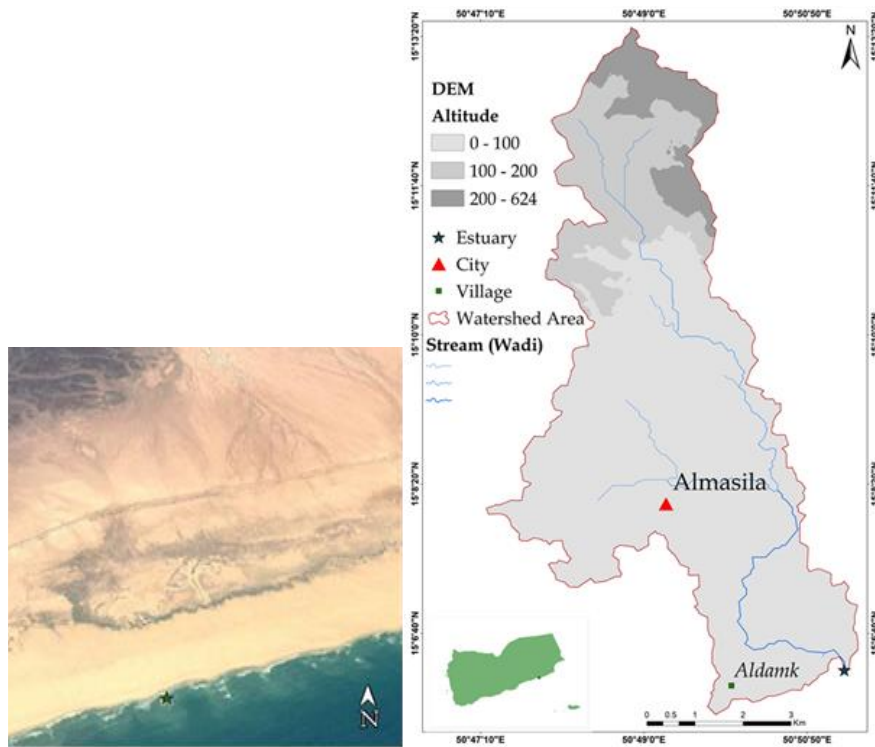


Figure 322. Oro-hydrographic Characteristics of Watershed: Radhin, Almahra (right)& The satellite view of Aldamk Estuary (2009) (left).

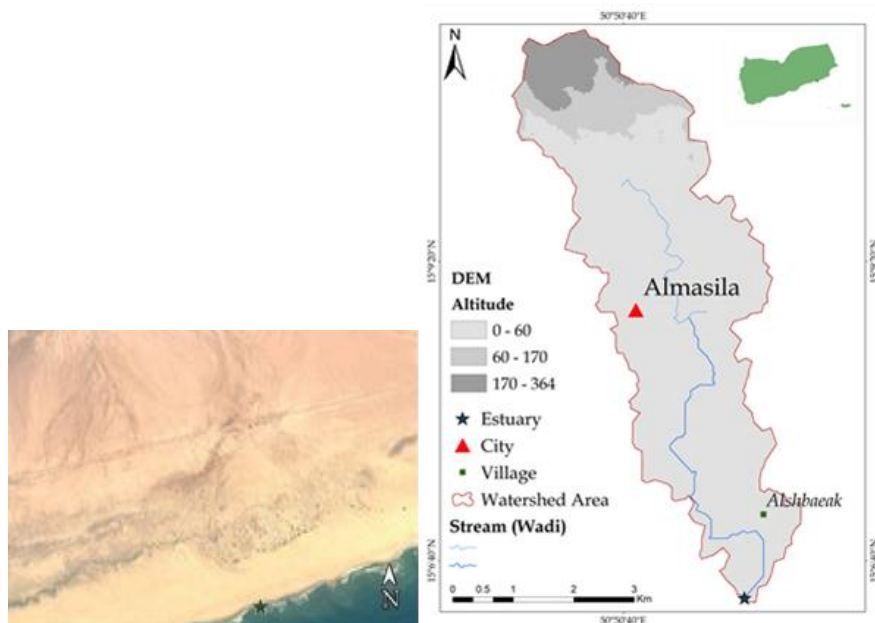


Figure 323. Oro-hydrographic Characteristics of Watershed: Aljahda, Almahra (right)& The satellite view of Alshbaeak Estuary (2009) (left).

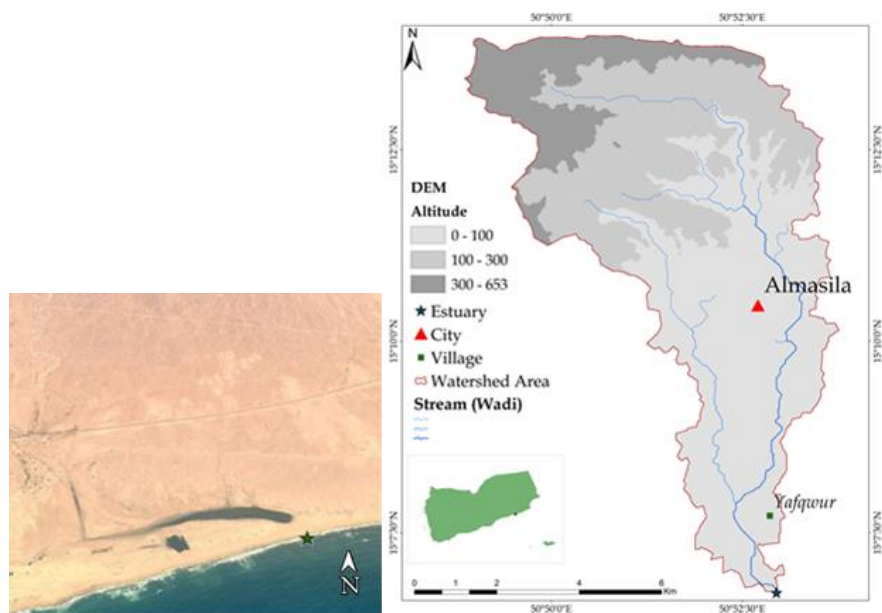


Figure 324. Oro-hydrographic Characteristics of Watershed: Masheb, Almahra (right)& The satellite view of Yafqwur Estuary (2009) (left).

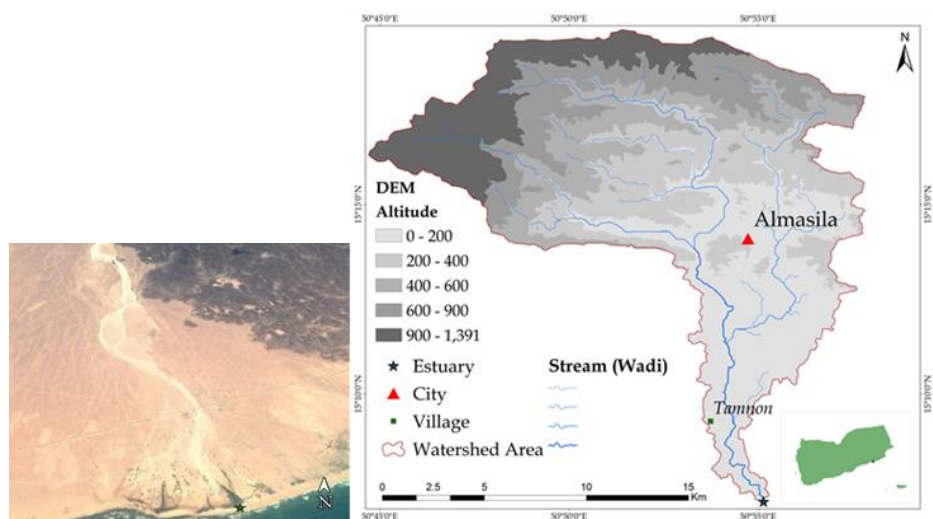


Figure 325. Oro-hydrographic Characteristics of Watershed: Haizez, Almahra (right)& The satellite view of Tamnon Estuary (2009) (left).

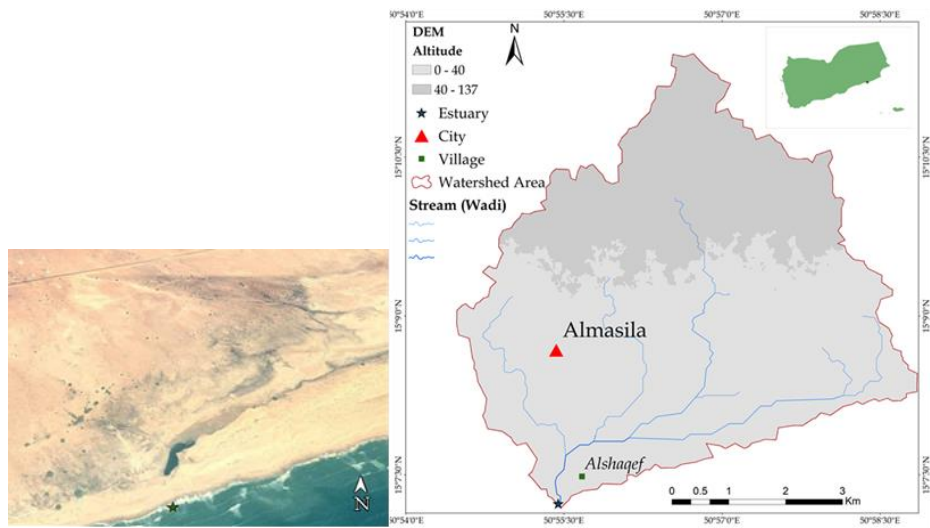


Figure 326. Oro-hydrographic Characteristics of Watershed: BdW Fesh, Almahra (right)& The satellite view of Alshaqef Estuary (2009) (left).

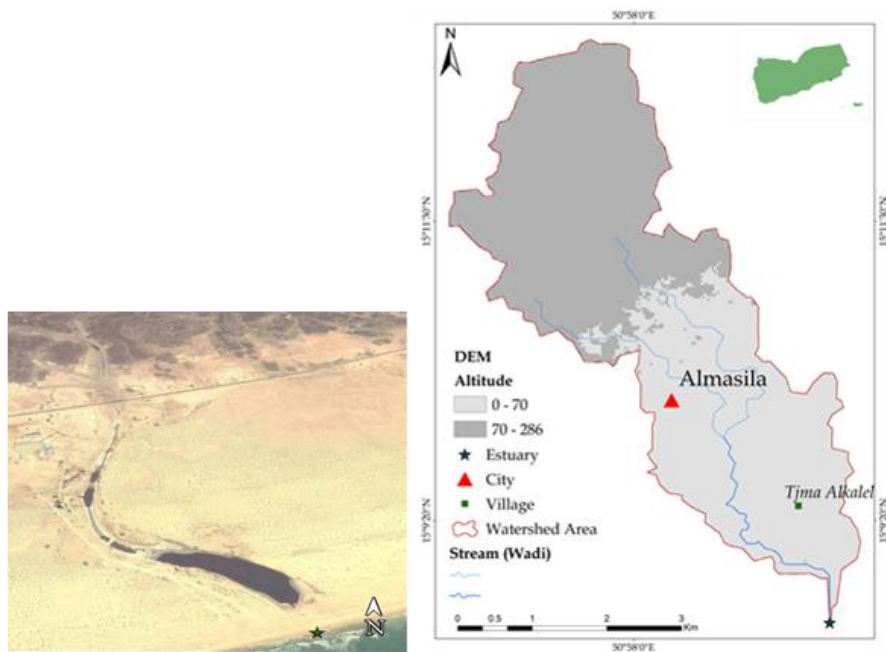


Figure 327. Oro-hydrographic Characteristics of Watershed: Qalana, Almahra (right)& The satellite view of Tjma Alkalel Estuary (2009) (left).

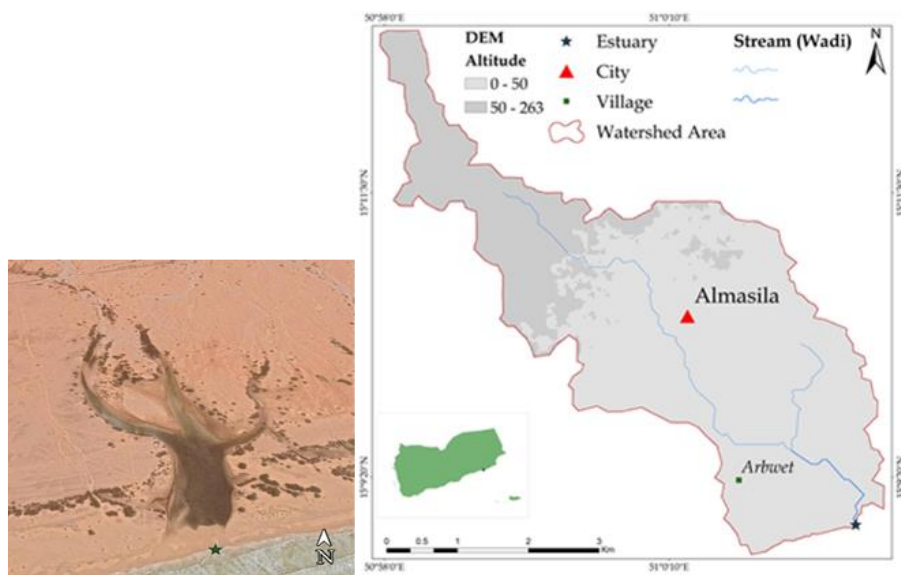


Figure 328. Oro-hydrographic Characteristics of Watershed: Dmidan, Almahra (right)& The satellite view of Arbwet Estuary (2019) (left).

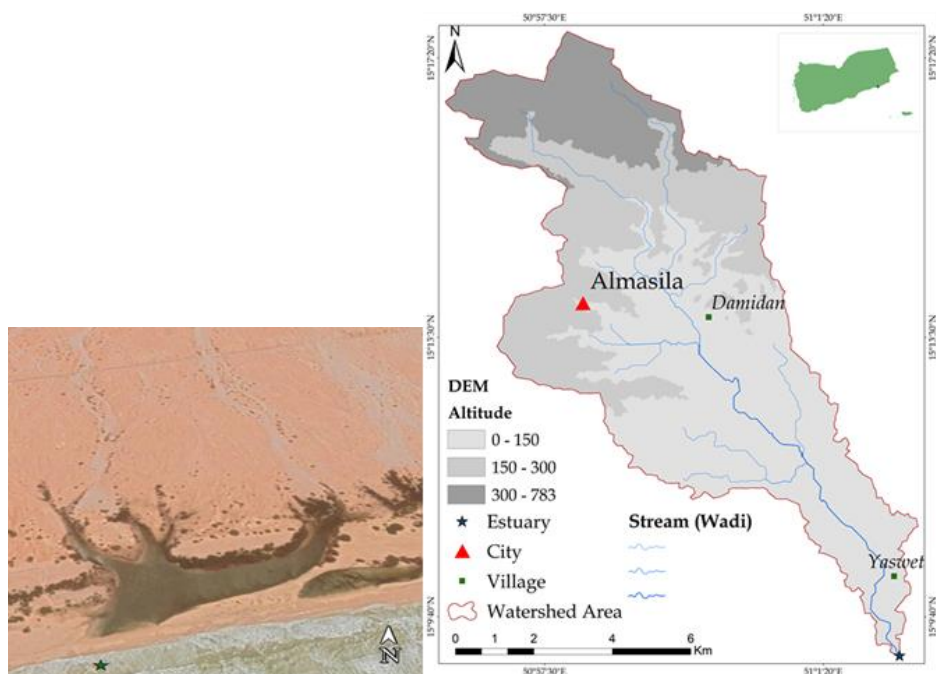


Figure 329. Oro-hydrographic Characteristics of Watershed: Arbwet, Almahra (right)& The satellite view of Yaswet Estuary (2019) (left).

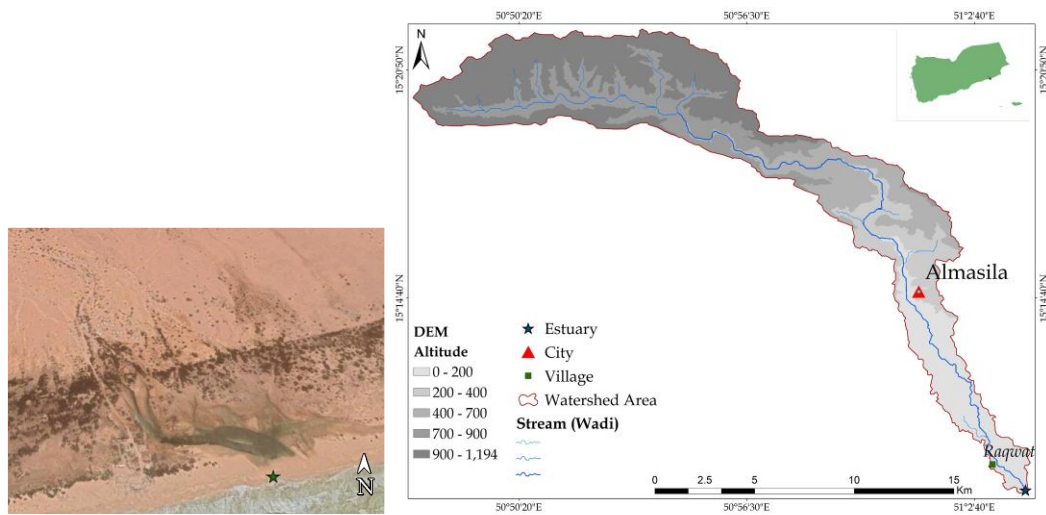


Figure 330. Oro-hydrographic Characteristics of Watershed: Alqiad, Almahra (right)& The satellite view of Raqwat Estuary (2019) (left).

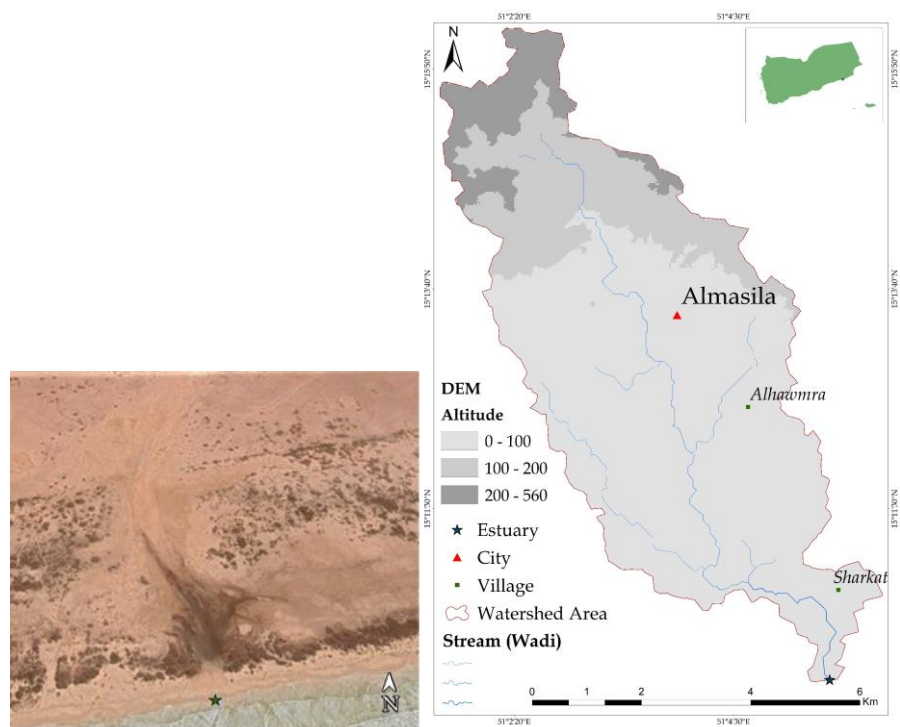


Figure 331. Oro-hydrographic Characteristics of Watershed: Alhwmra, Almahra (right)& The satellite view of Sharkat Estuary (2019) (left).

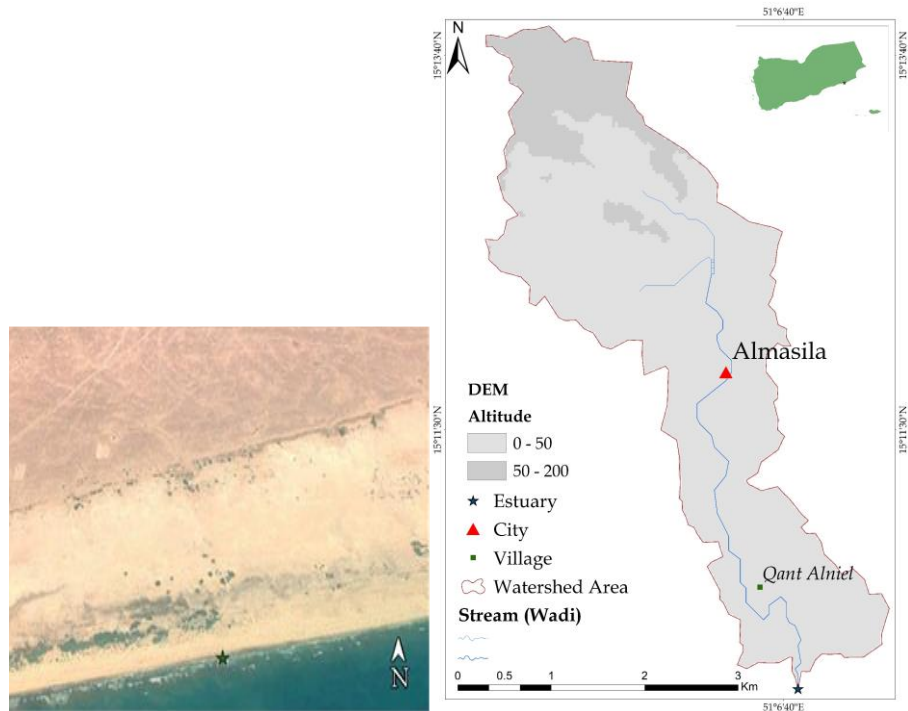


Figure 332. Oro-hydrographic Characteristics of Watershed: Rhdiel, Almahra (right) & The satellite view of Qant Alniel Estuary (2009) (left).

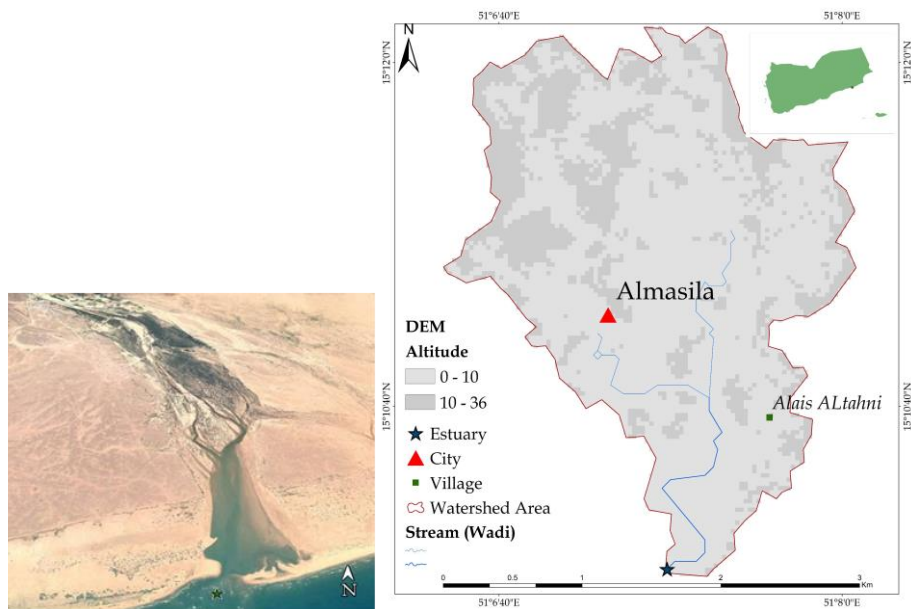


Figure 333. Oro-hydrographic Characteristics of Watershed: Alais, Almahra (right) & The satellite view of Alais Altahni Estuary (2009) (left).

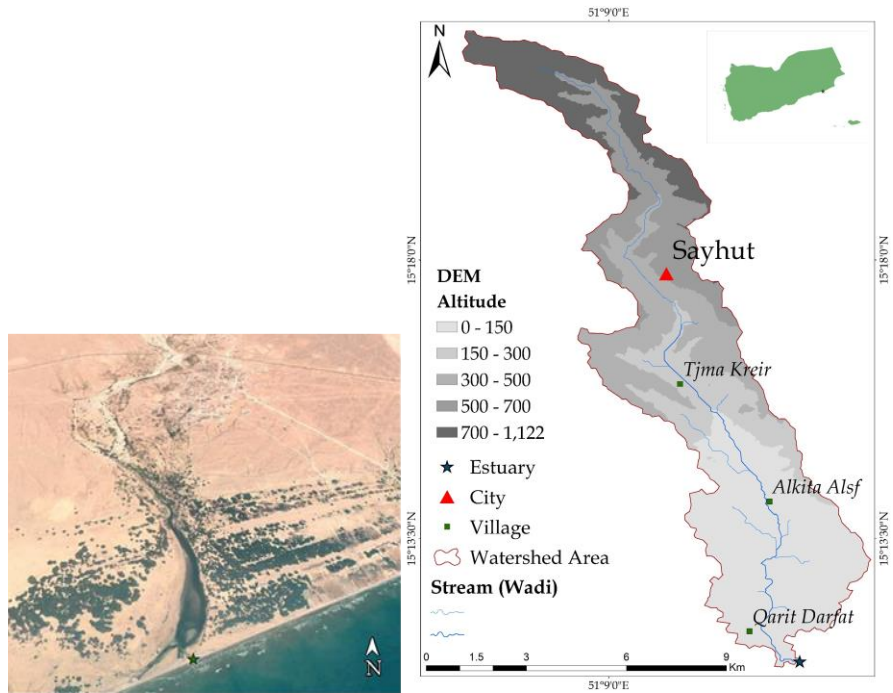


Figure 334. Oro-hydrographic Characteristics of Watershed: Darfiet, Almahra (right)& The satellite view of Qarit Darfat Estuary (2009) (left).

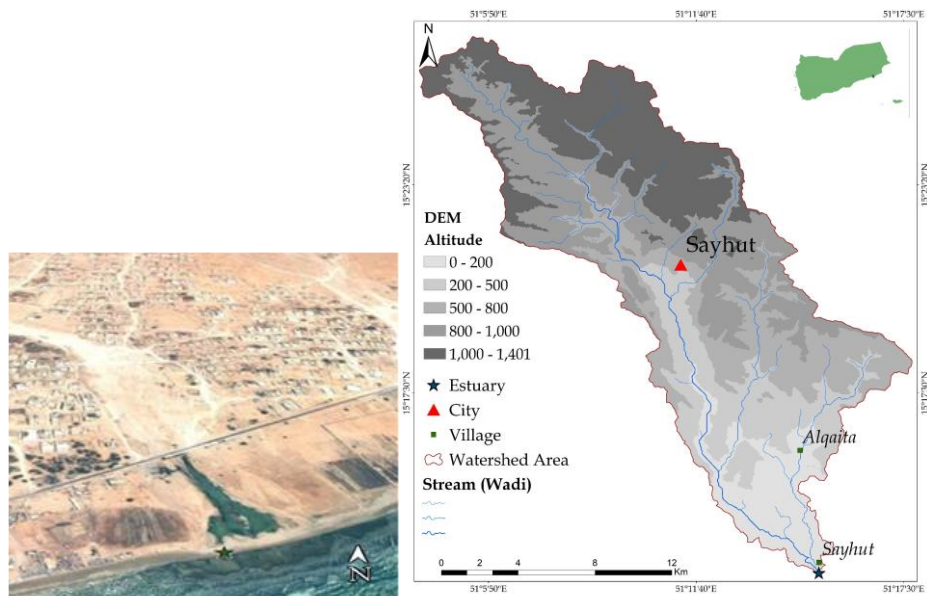


Figure 335. Oro-hydrographic Characteristics of Watershed: Salvahwet, Almahra (right)& The satellite view of Sayhut Estuary (2004) (left).

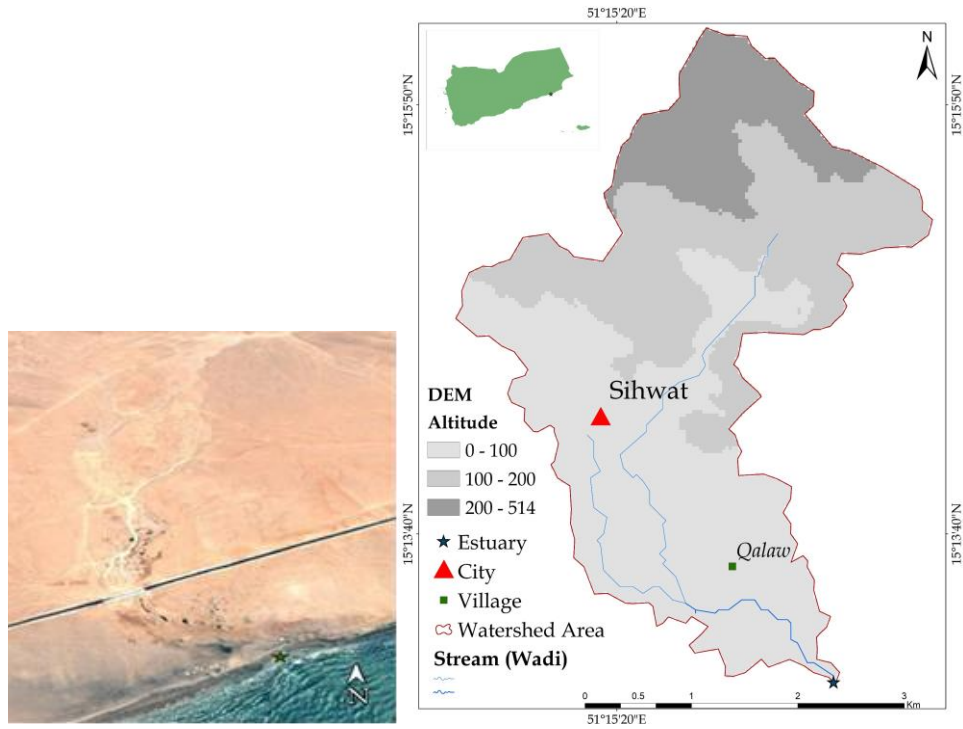


Figure 336. Oro-hydrographic Characteristics of Watershed: Alqiteh, Almahra (right)& The satellite view of Qalaw Estuary (2004) (left).

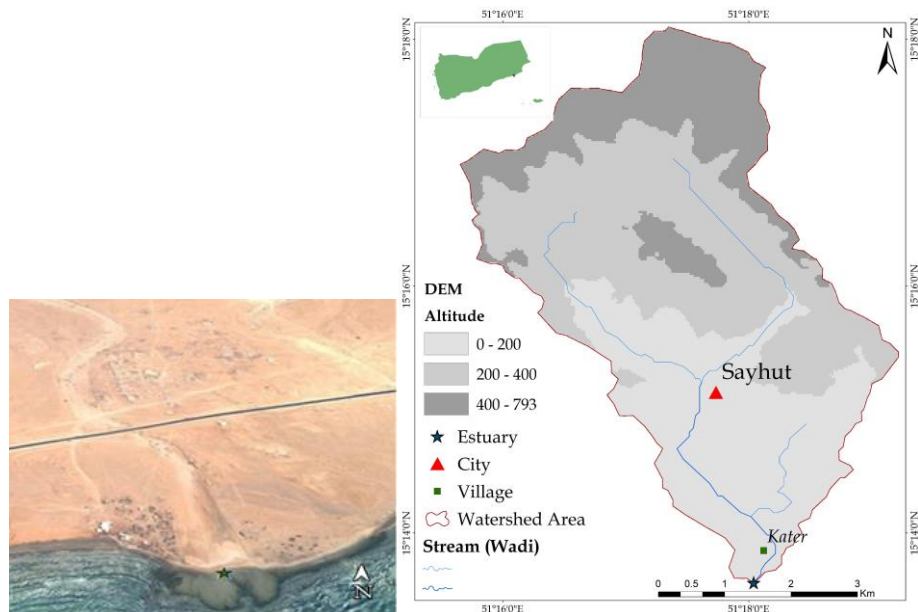


Figure 337. Oro-hydrographic Characteristics of Watershed: Yalkwni, Almahra (right)& The satellite view of Kater Estuary (2004) (left).

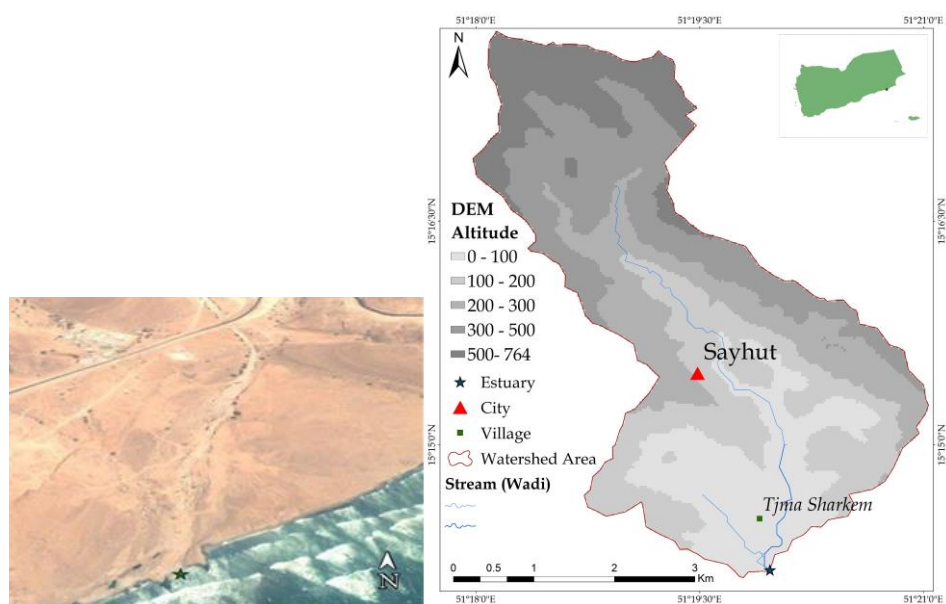


Figure 338. Oro-hydrographic Characteristics of Watershed: Abdwet, Almahra (right)& The satellite view of Tjma Sharkem Estuary (2009) (left).

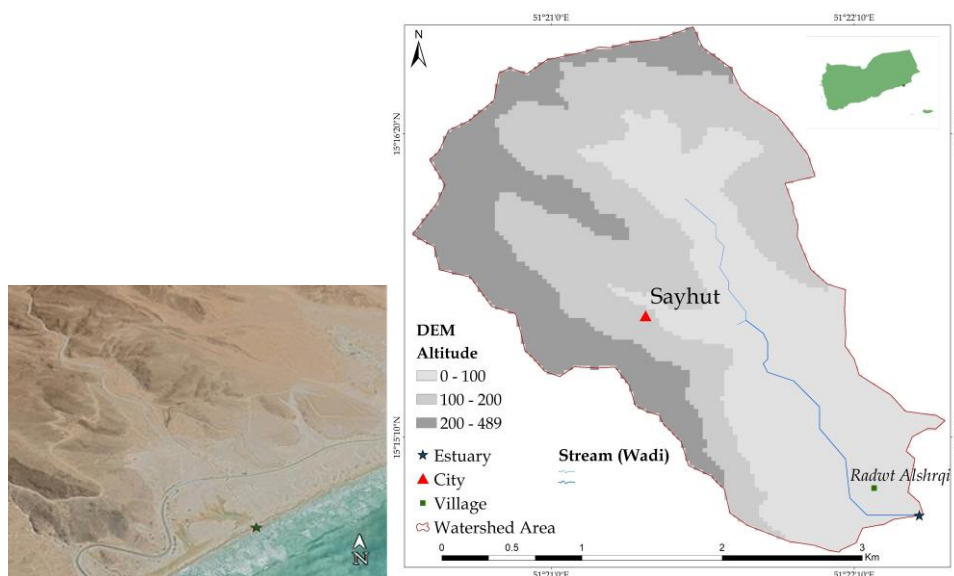


Figure 339. Oro-hydrographic Characteristics of Watershed: Atab, Almahra (right)& The satellite view of Radwt Alshrqi Estuary (2019) (left).

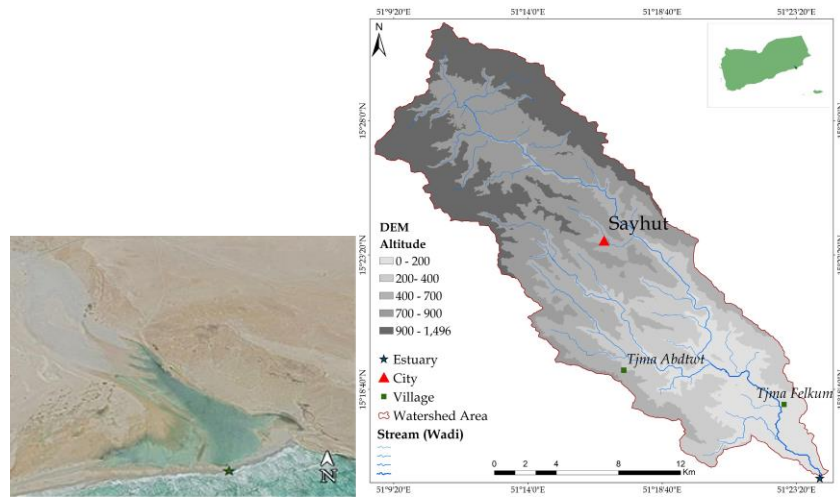


Figure 340. Oro-hydrographic Characteristics of Watershed: Arqwat, Almahra (right)& The satellite view of Tjma Felkum Estuary (2019) (left).

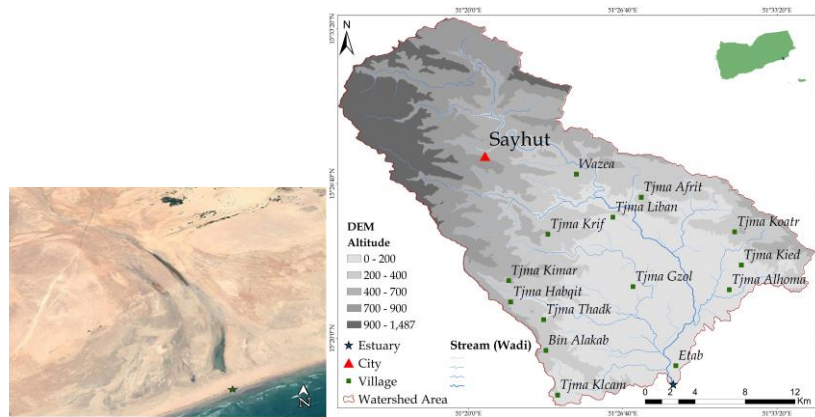


Figure 341. Oro-hydrographic Characteristics of Watershed: Dahshar, Almahra (right)& The satellite view of Etab Estuary (2010) (left).

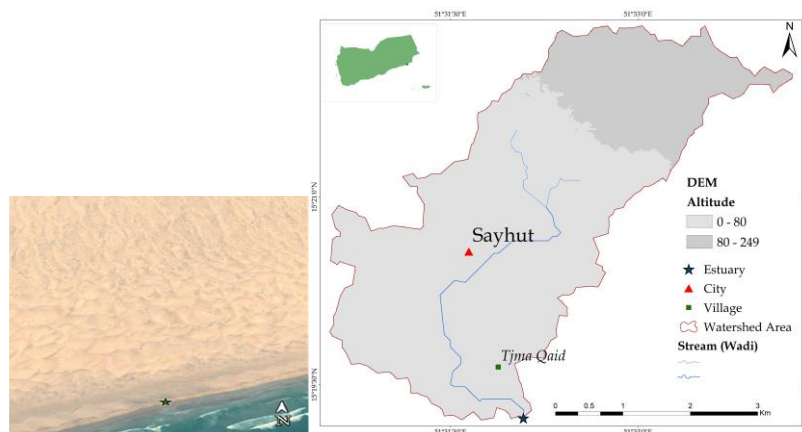


Figure 342. Oro-hydrographic Characteristics of Watershed: Qrwami, Almahra (right)& The satellite view of Tjma Qaid Estuary (2010) (left).

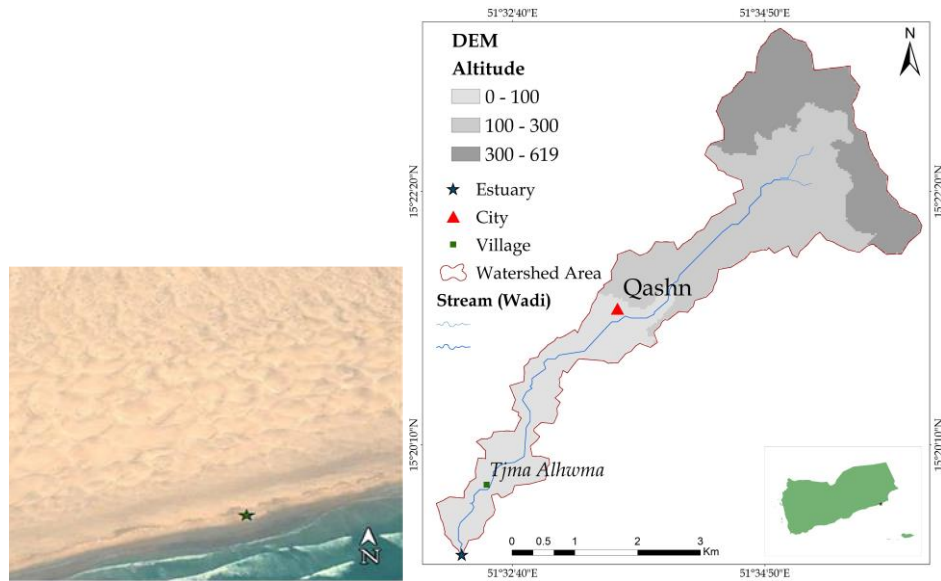


Figure 343. Oro-hydrographic Characteristics of Watershed: Alhwma, Almhra (right)& The satellite view of Tjma Alhwma Estuary (2010) (left).

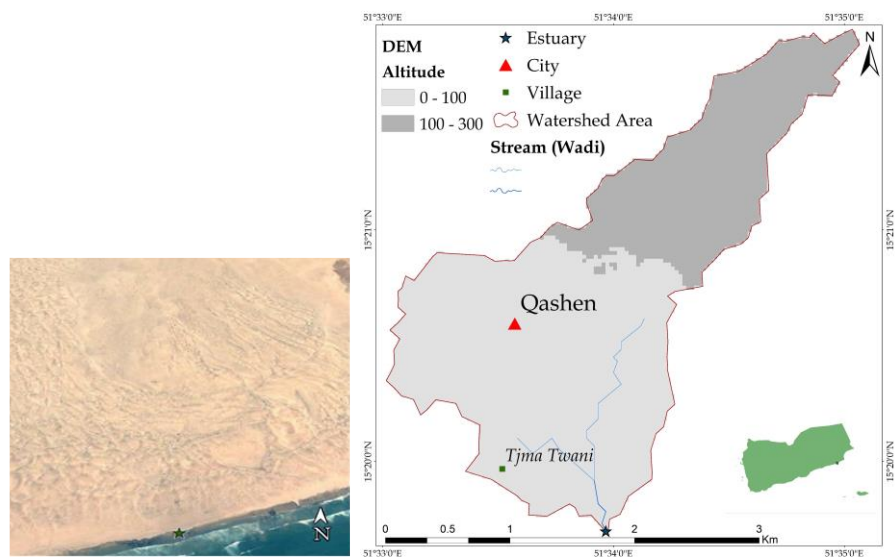


Figure 344. Oro-hydrographic Characteristics of Watershed: Qaid, Almhra (right)& The satellite view of Tjma Twani Estuary (2010) (left).

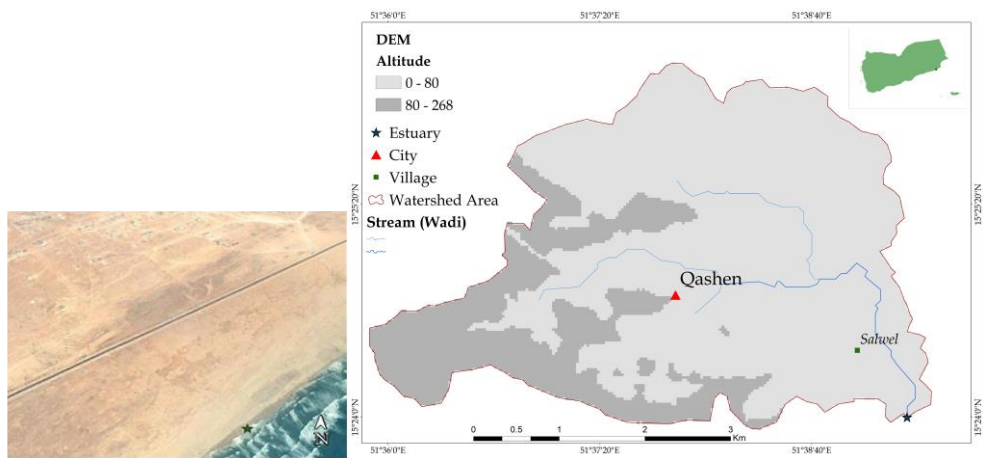


Figure 345. Oro-hydrographic Characteristics of Watershed: Salwel, Almahra (right)& The satellite view of Qashen Estuary (2010) (left).

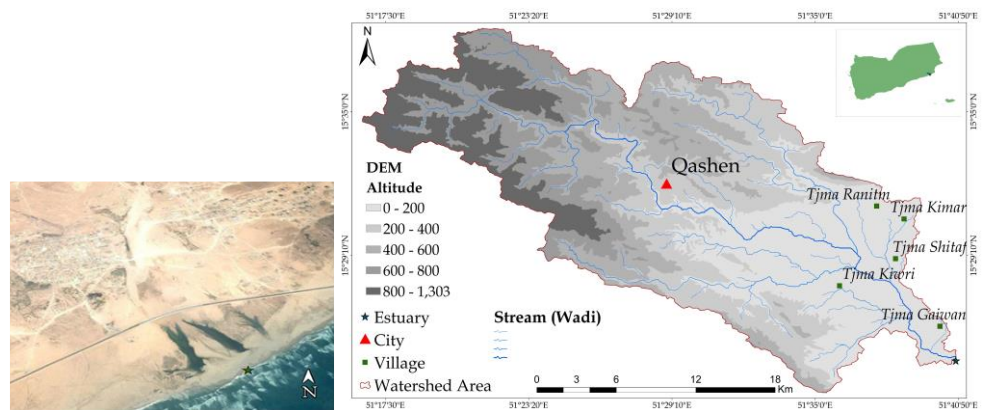


Figure 346. Oro-hydrographic Characteristics of Watershed: Hamriet, Almahra (right)(right)(right)& The satellite view of Tjma Gaiwan Estuary (2009) (left).

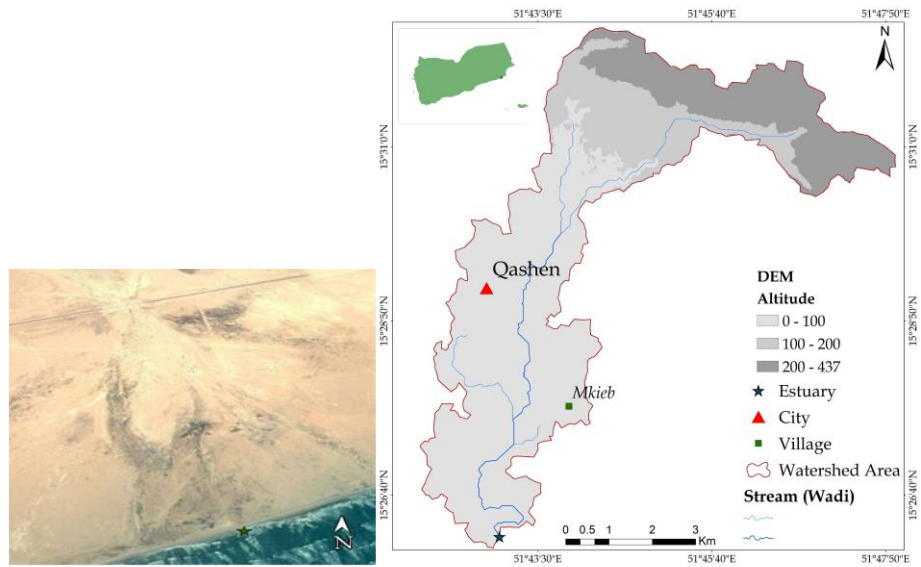


Figure 347. Oro-hydrographic Characteristics of Watershed: Qalet, Almahra(right)& The satellite view of Mkieb Estuary (2009) (left).

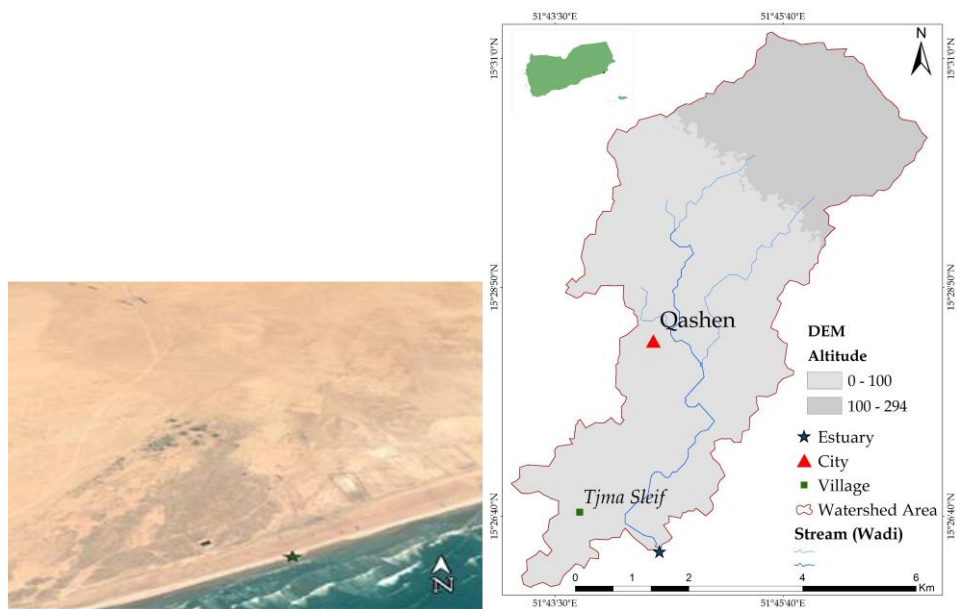


Figure 348. Oro-hydrographic Characteristics of Watershed: Hwitem, Almahra(right)& The satellite view of Tjma Sleif Estuary (2009) (left).

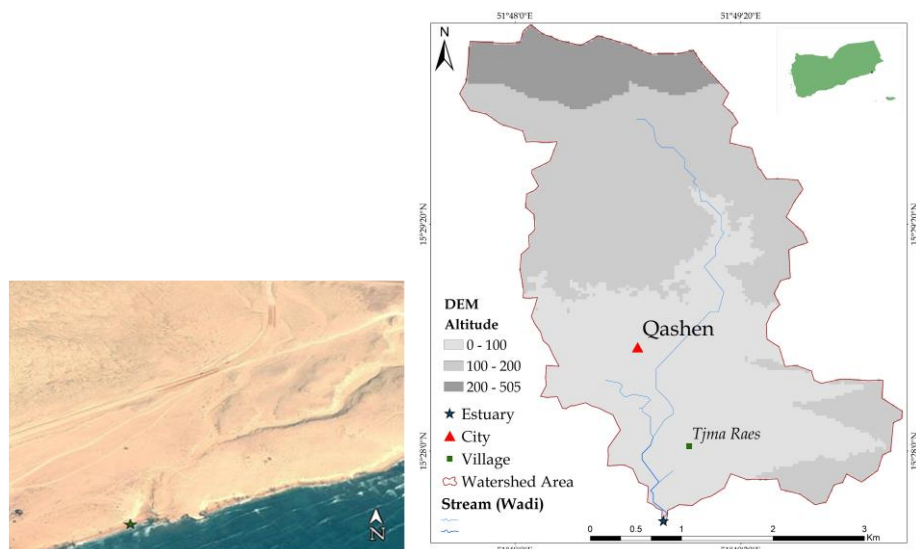


Figure 349. Oro-hydrographic Characteristics of Watershed: Tjma Raes, Almahra(right)& The satellite view of Tjma Raes Estuary (2004) (left).

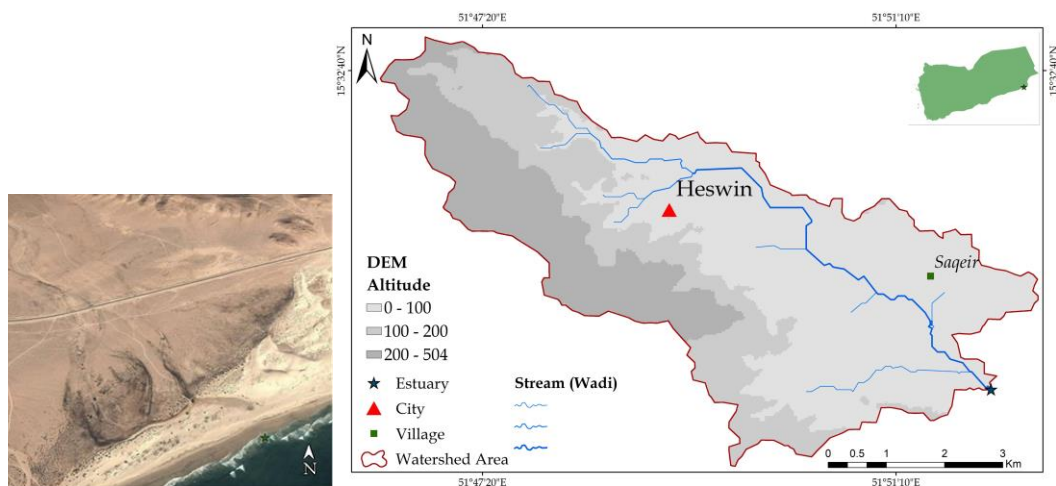


Figure 350. Oro-hydrographic Characteristics of Watershed: Qleit, Almahra(right)& The satellite view of Saqeir Estuary (2010) (left).

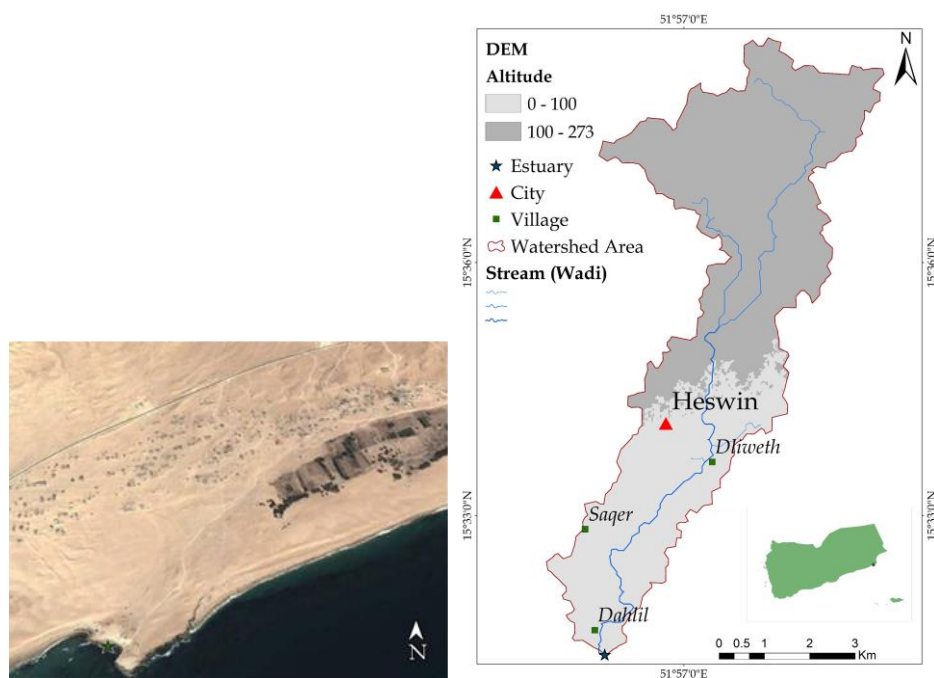


Figure 351. Oro-hydrographic Characteristics of Watershed: Delbtwt, Almahra(right)& The satellite view of Dahlil Estuary (2010) (left).

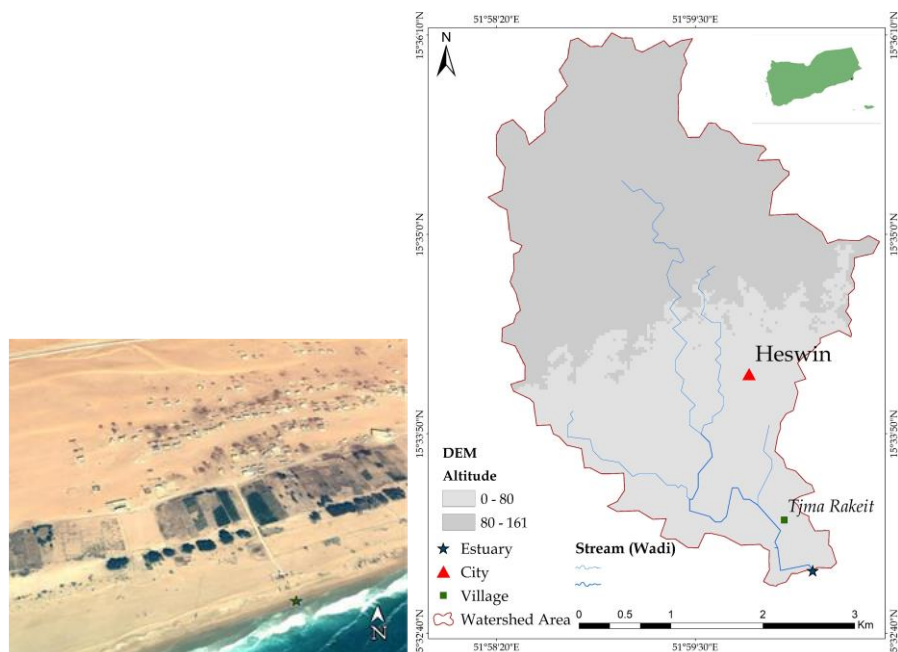


Figure 352. Oro-hydrographic Characteristics of Watershed: Rakhut, Almahra(right)& The satellite view of Tjma Rakeit Estuary (2005) (left).

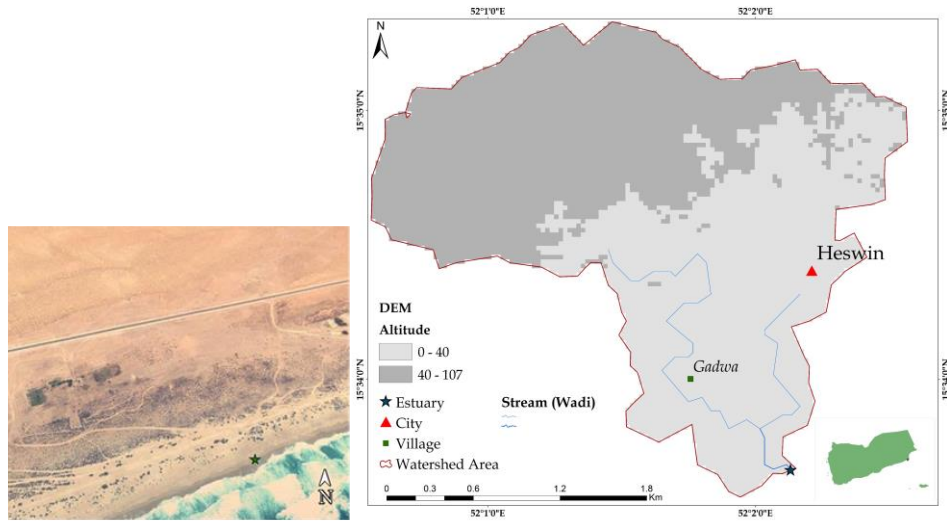


Figure 353. Oro-hydrographic Characteristics of Watershed: Alshieni, Almahra(right)& The satellite view of Gadwa Estuary (2009) (left).

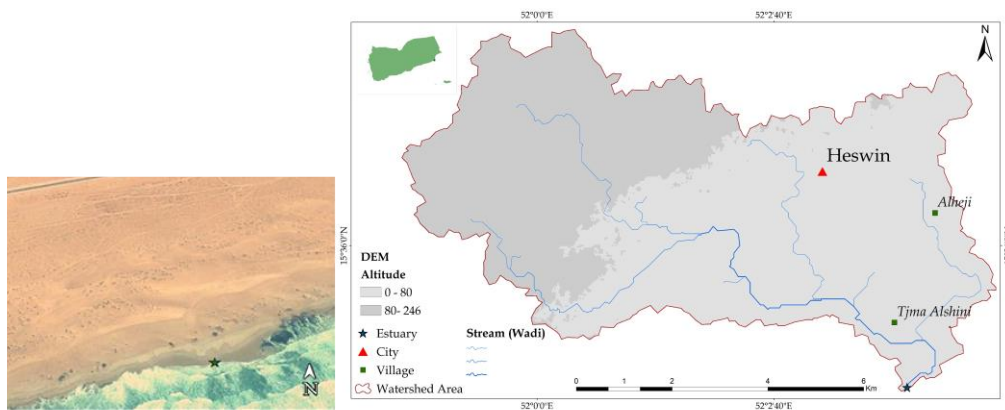


Figure 354. Oro-hydrographic Characteristics of Watershed: Alhaji, Almahra(right)& The satellite view of Tjma Alshini Estuary (2009) (left).

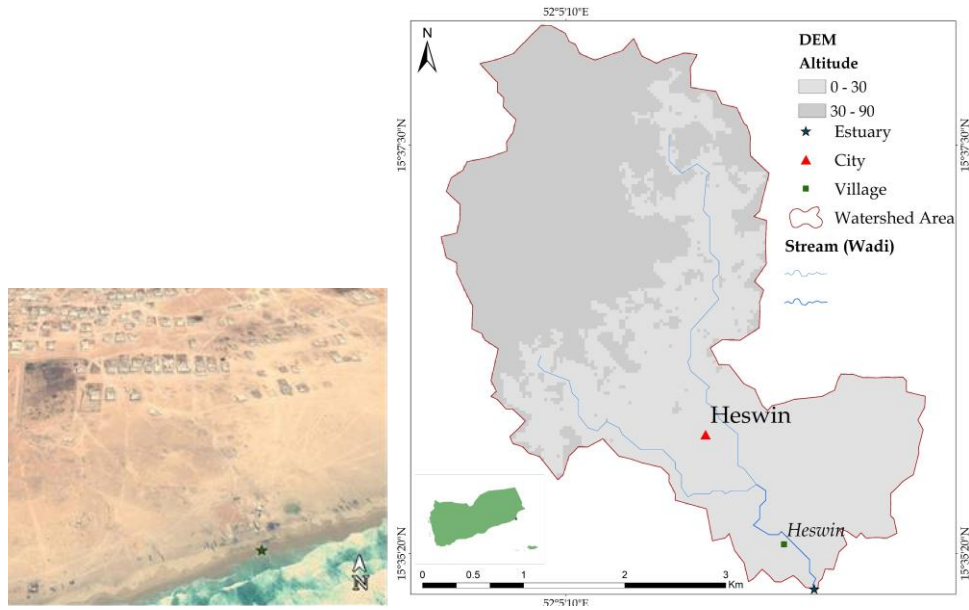


Figure 355. Oro-hydrographic Characteristics of Watershed: Heswin, Almahra(right)& The satellite view of Heswin Estuary (2009) (left).

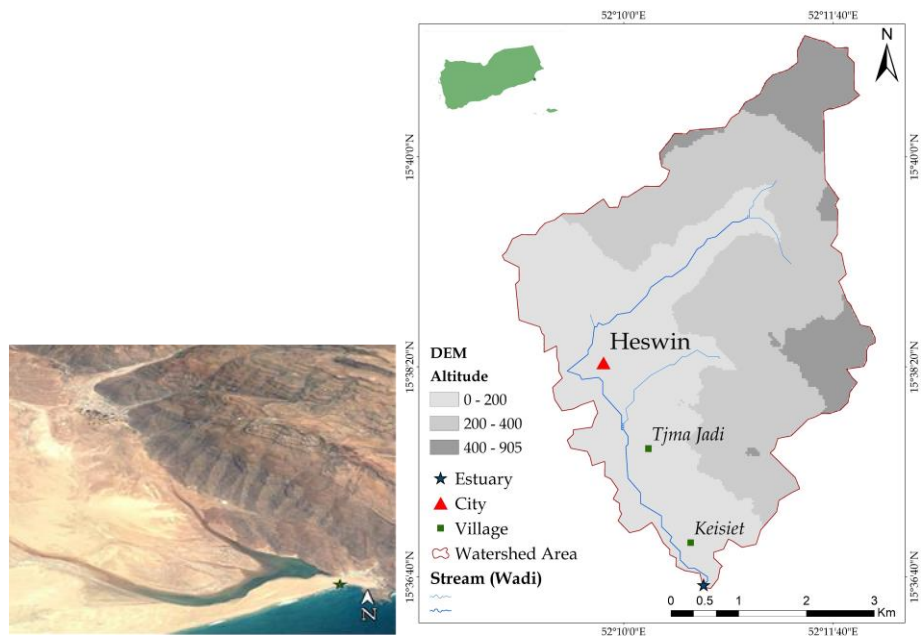


Figure 356. Oro-hydrographic Characteristics of Watershed: Qadifwet, Almahra(right)& The satellite view of Keisiet Estuary (2005) (left).

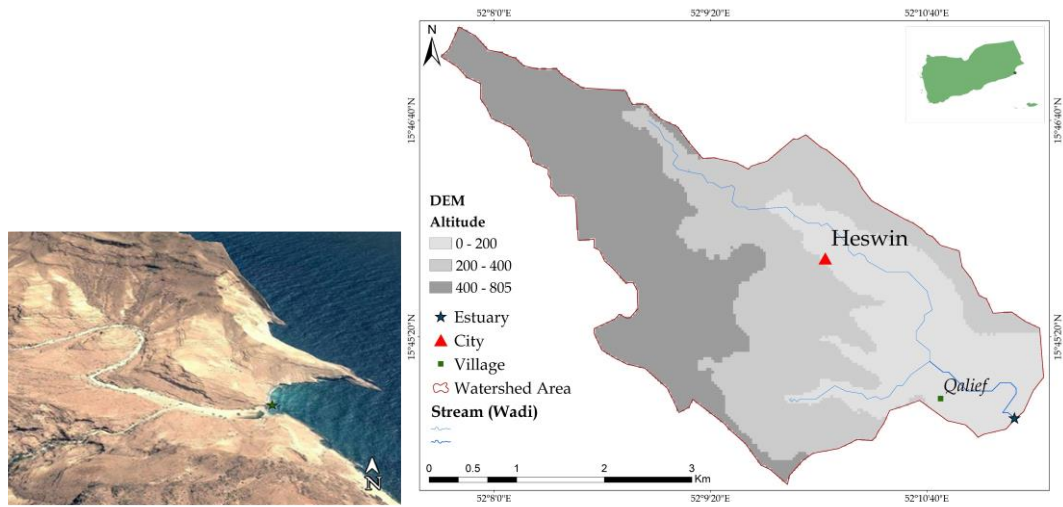


Figure 357. Oro-hydrographic Characteristics of Watershed: Qlbief, Almahra(right)& The satellite view of Qalief Estuary (2009) (left).

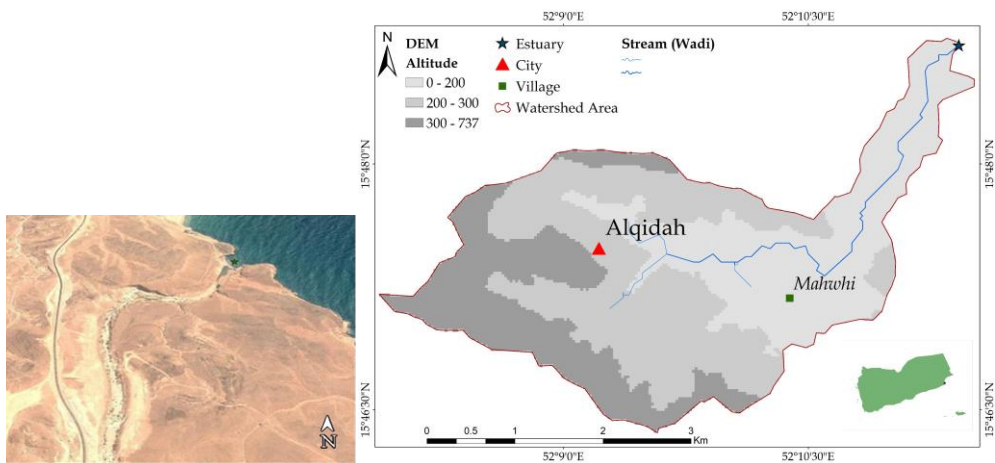


Figure 358. Oro-hydrographic Characteristics of Watershed: Kliev, Almahra(right)& The satellite view of Mahwhi Estuary (2009) (left).

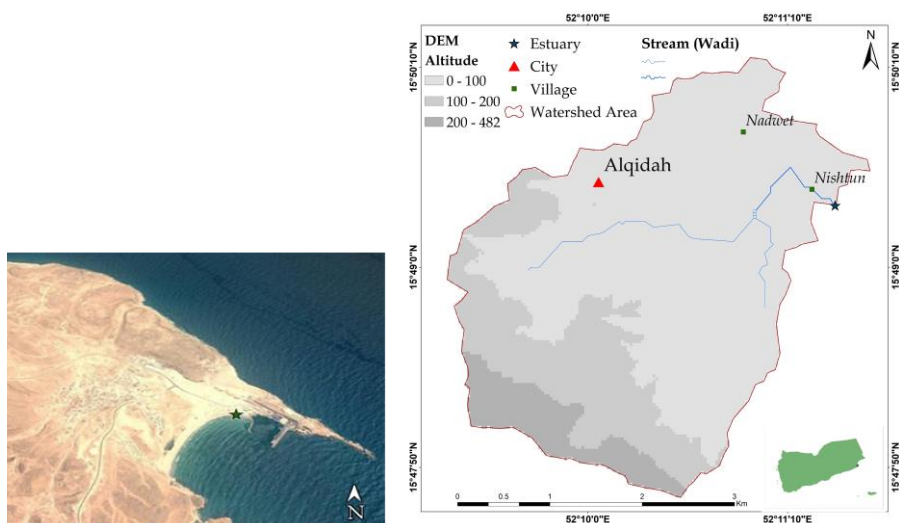


Figure 359. Oro-hydrographic Characteristics of Watershed: Fashae, Almahra(right)& The satellite view of Nishtun Estuary (2009) (left).

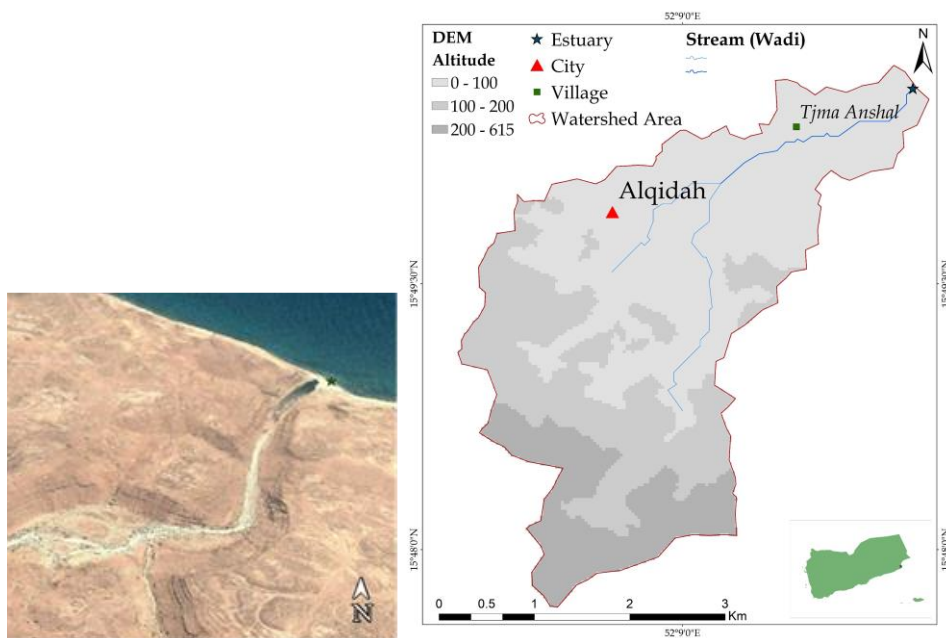


Figure 360. Oro-hydrographic Characteristics of Watershed: Kaeh, Almahra(right)& The satellite view of Tjma Anshal Estuary (2009) (left).

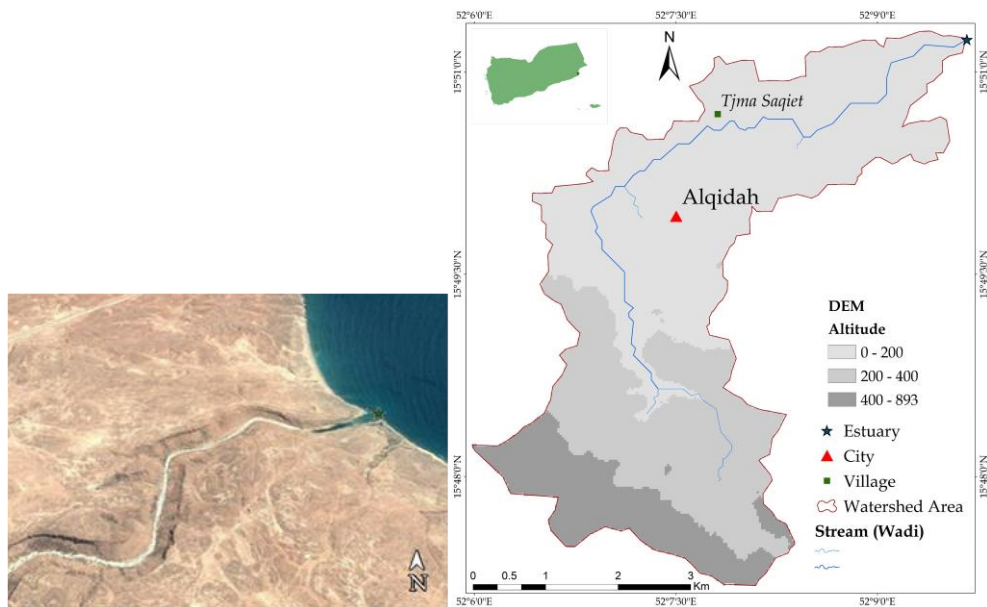


Figure 361. Oro-hydrographic Characteristics of Watershed: Saqiet, Almahra(right)& The satellite view of Tjma Saqiet Estuary (2009) (left).

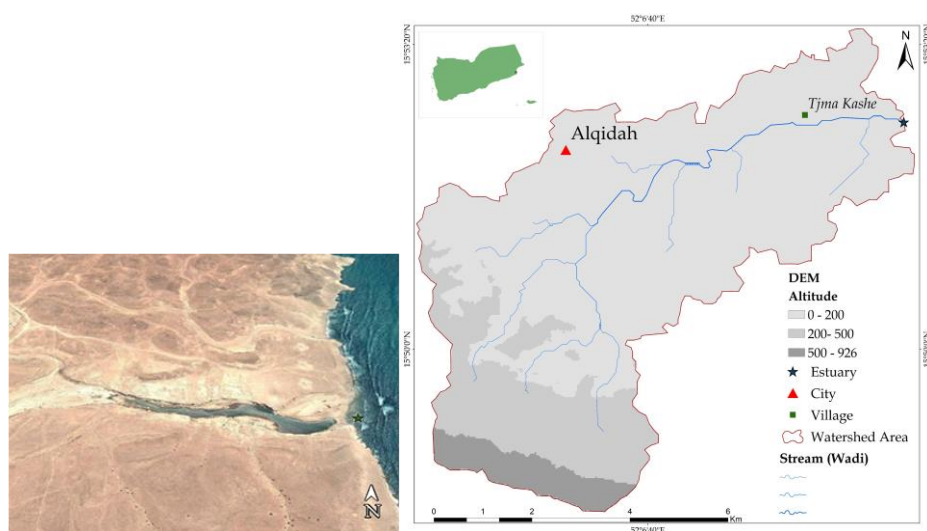


Figure 362. Oro-hydrographic Characteristics of Watershed: Radhait, Almahra(right)& The satellite view of Tjma Kashe Estuary (2009) (left).

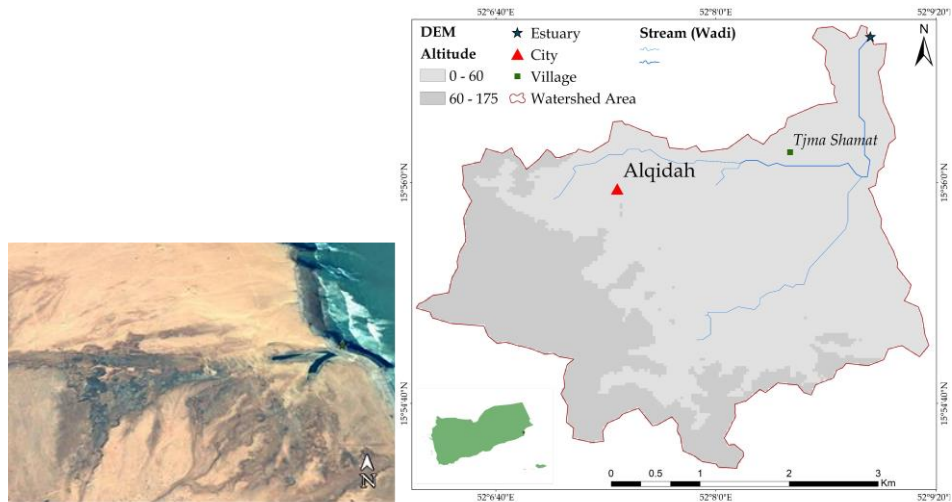


Figure 363. Oro-hydrographic Characteristics of Watershed: Ashbwn, Almahra(right)& The satellite view of Tjma Shamat Estuary (2005) (left).

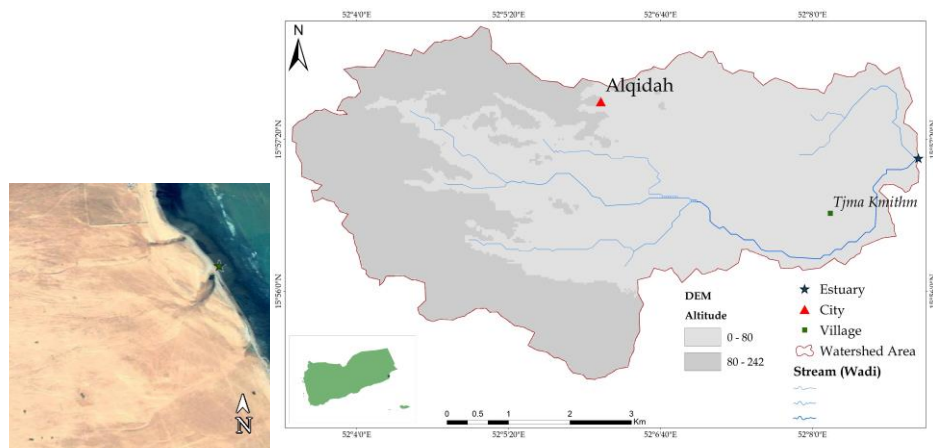


Figure 364. Oro-hydrographic Characteristics of Watershed: Waihek, Almahra(right)& The satellite view of Tjma Knithm Estuary (2005) (left).

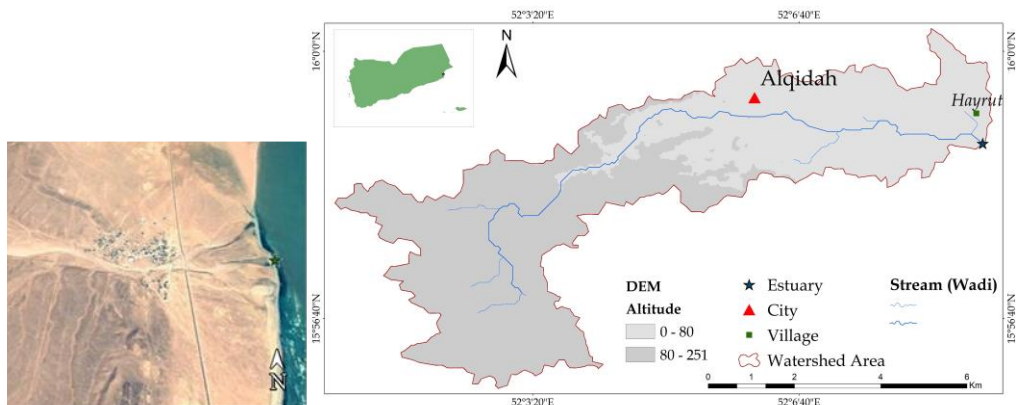


Figure 365. Oro-hydrographic Characteristics of Watershed: Qmithem, Almahra(right)& The satellite view of Hayrut Estuary (2005) (left).

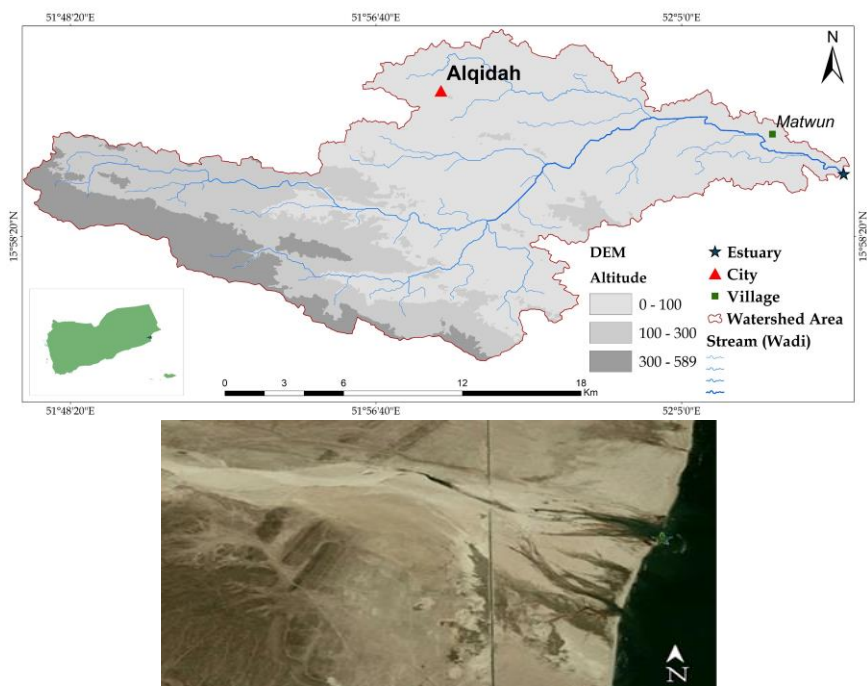


Figure 366. Oro-hydrographic Characteristics of Watershed: Sicaiet, Almahra(right)& The satellite view of Matwun Estuary (2018) (below).

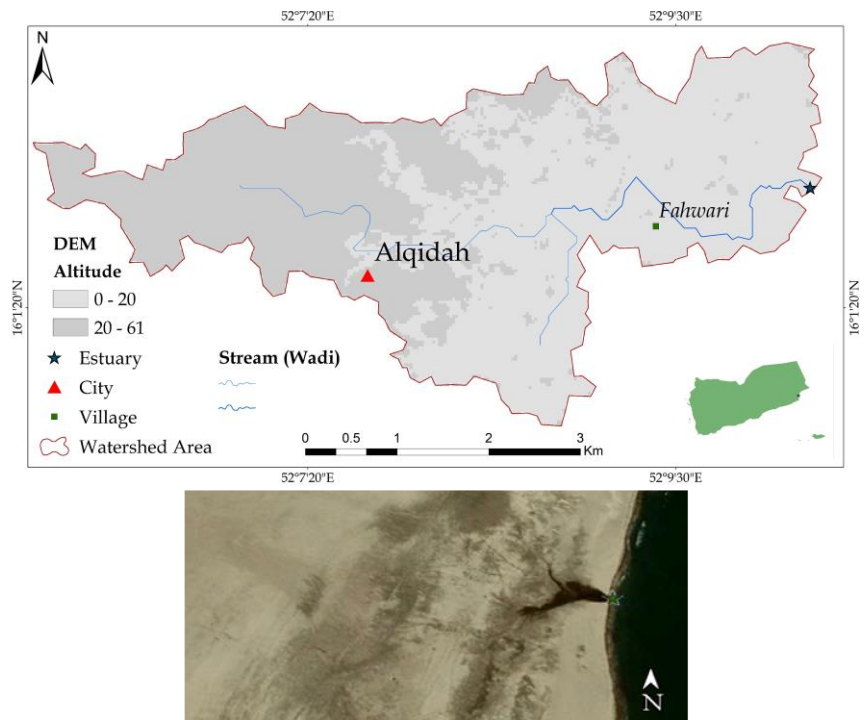


Figure 367. Oro-hydrographic Characteristics of Watershed: Manear, Almahra(right)& The satellite view of Fahwari Estuary (2018) (below).

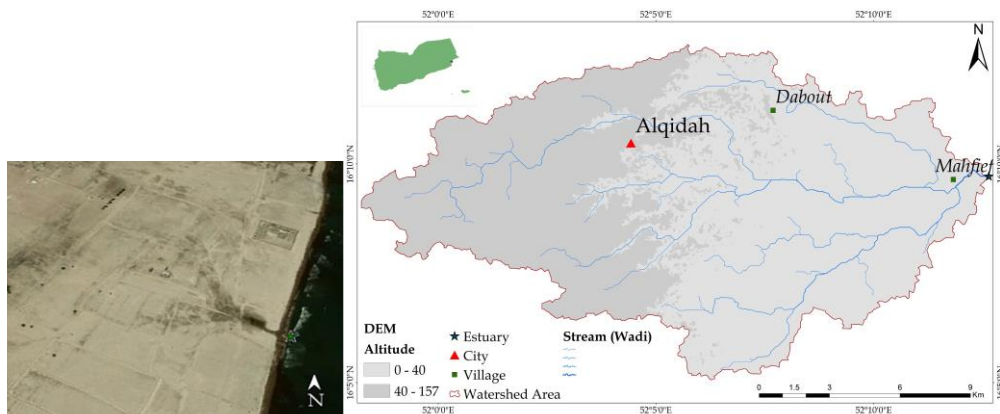


Figure 368. Oro-hydrographic Characteristics of Watershed: Mrayet, Almahra(right)& The satellite view of Mahfief Estuary (2018) (left).

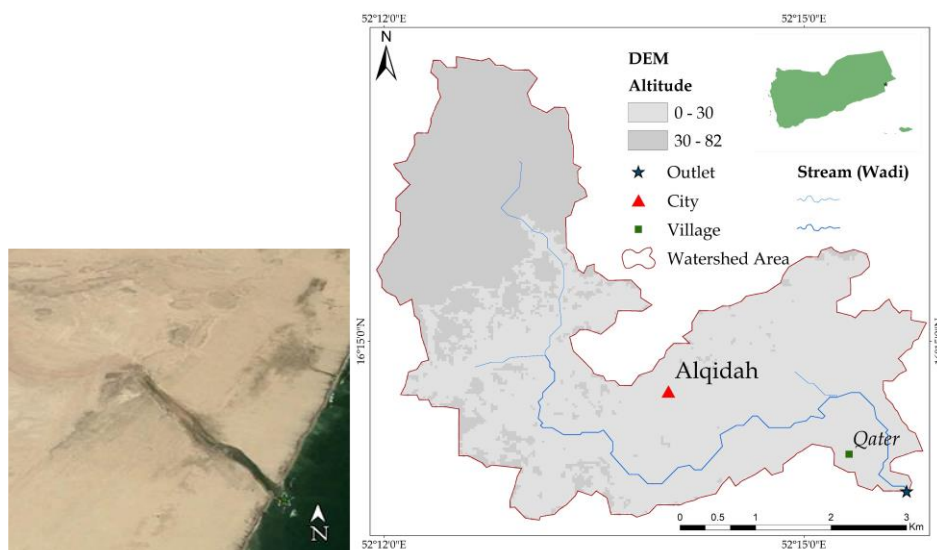


Figure 369. Oro-hydrographic Characteristics of Watershed: Tabdi, Almahra(right)& The satellite view of Qater Estuary (2018) (left).

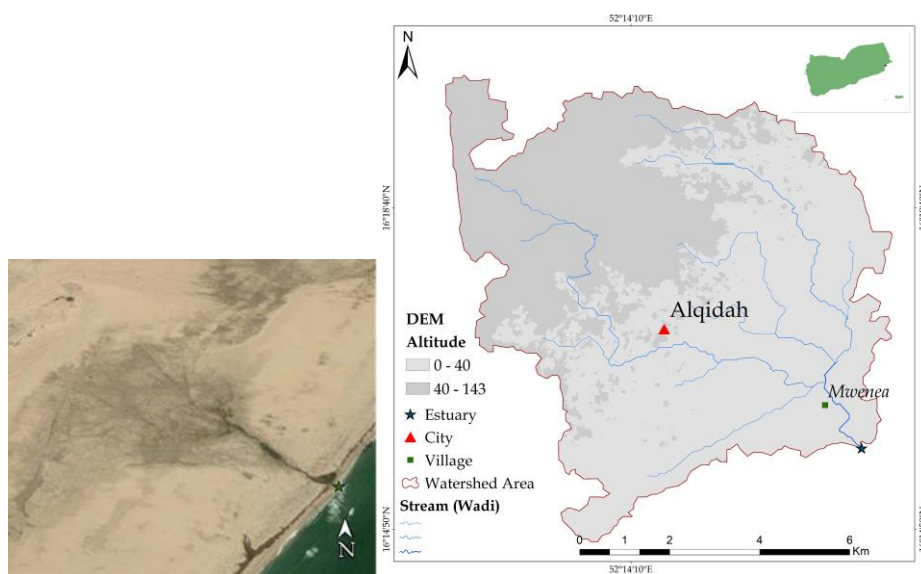


Figure 370. Oro-hydrographic Characteristics of Watershed: Tefalen, Almahra(right)& The satellite view of Mwenea Estuary (2018) (left).

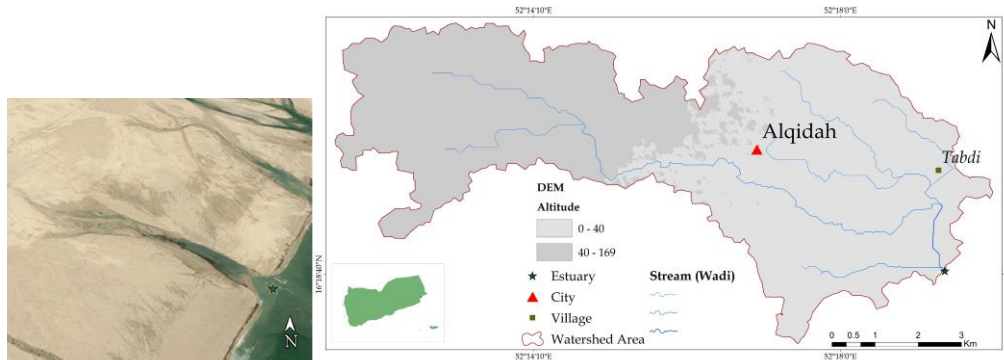


Figure 371. Oro-hydrographic Characteristics of Watershed: Hawlen, Almahra(right)& The satellite view of Tabdi Estuary (2018) (left).

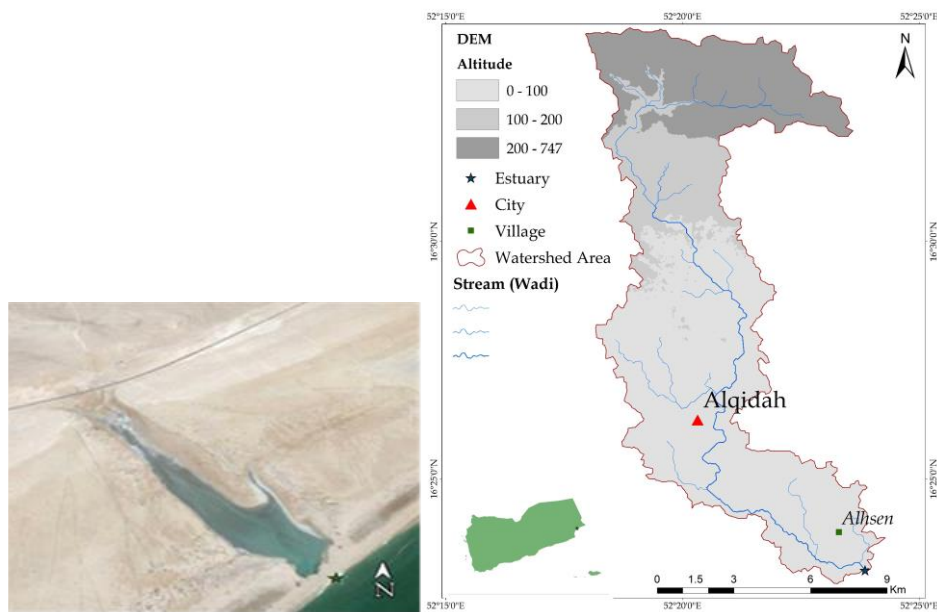


Figure 372. Oro-hydrographic Characteristics of Watershed: Matwoet, Almahra(right)& The satellite view of Alhsen Estuary (2011) (left).

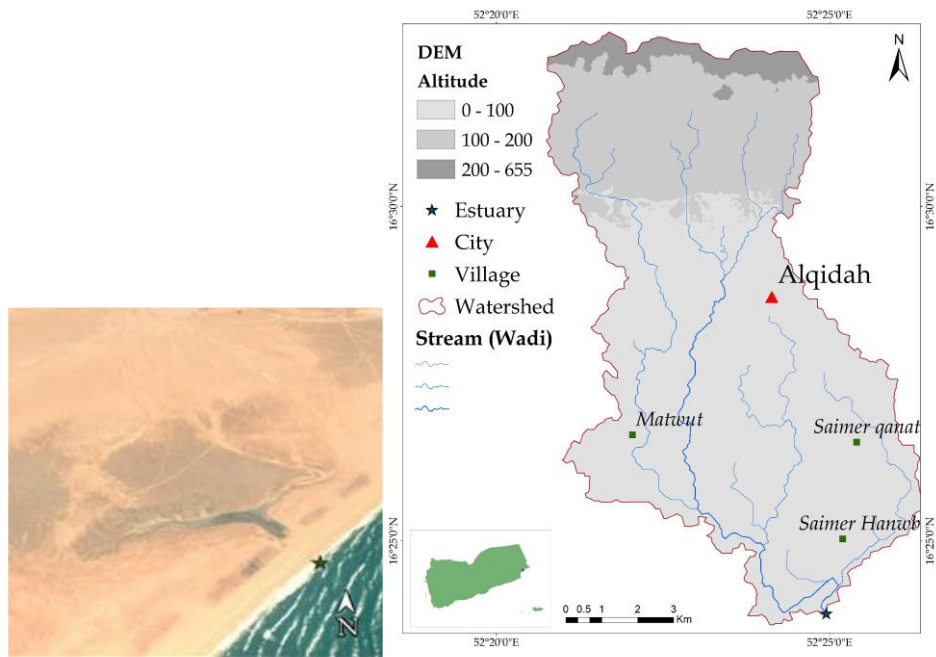


Figure 373. Oro-hydrographic Characteristics of Watershed: Hanweb, Almahra(right)& The satellite view of Saimer Estuary (2004) (left).

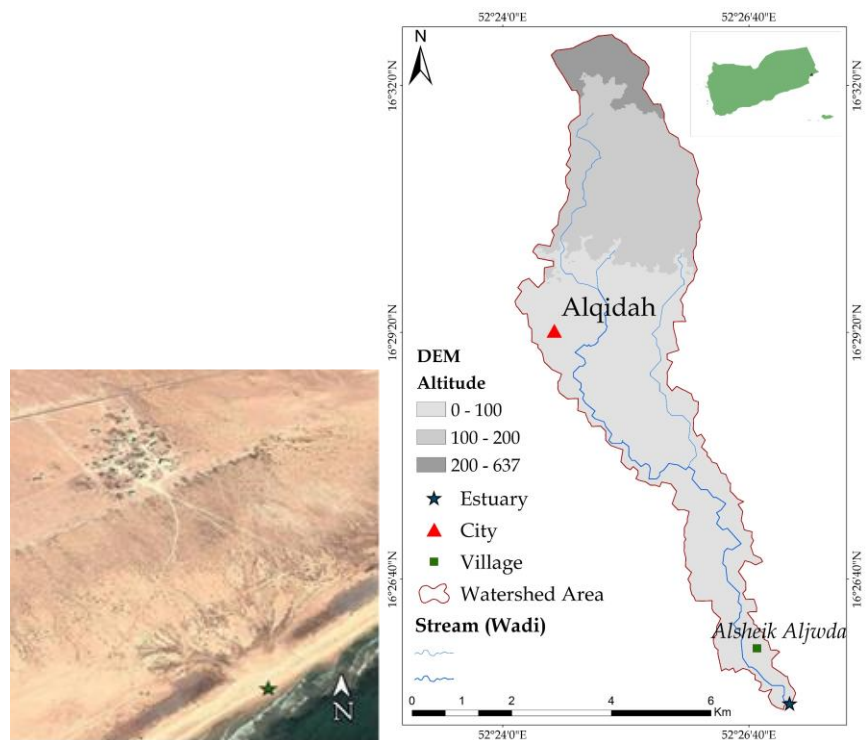


Figure 374. Oro-hydrographic Characteristics of Watershed: Nawdi, Almahra(right)& The satellite view of Alsheik Aljwda Estuary (2010) (left).

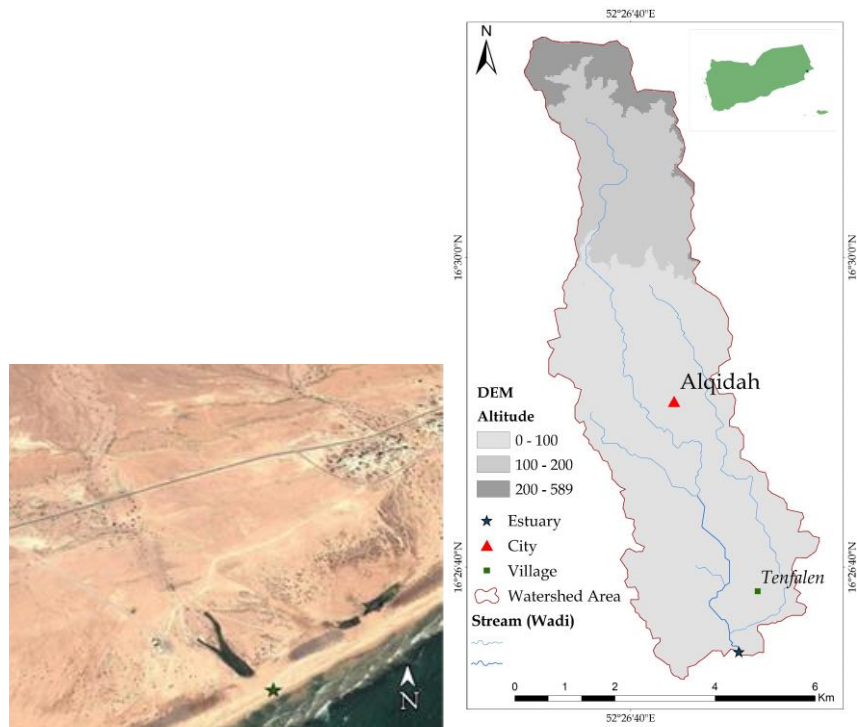


Figure 375. Oro-hydrographic Characteristics of Watershed: Kamwmi. Almahra(right)& The satellite view of Tenfalen Estuary (2010) (left).

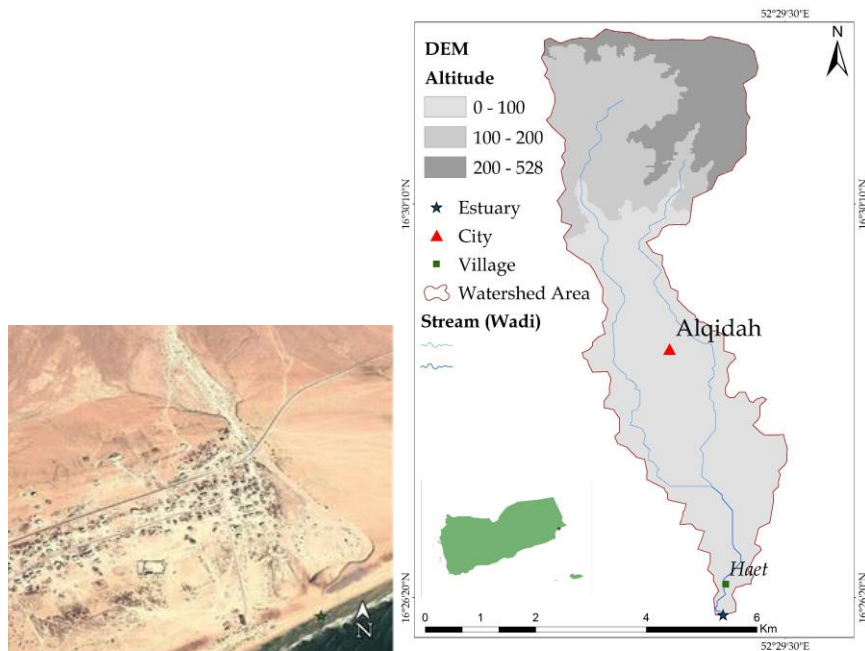


Figure 376. Oro-hydrographic Characteristics of Watershed: Haet, Almahra(right)& The satellite view of Haet Estuary (2010) (left).

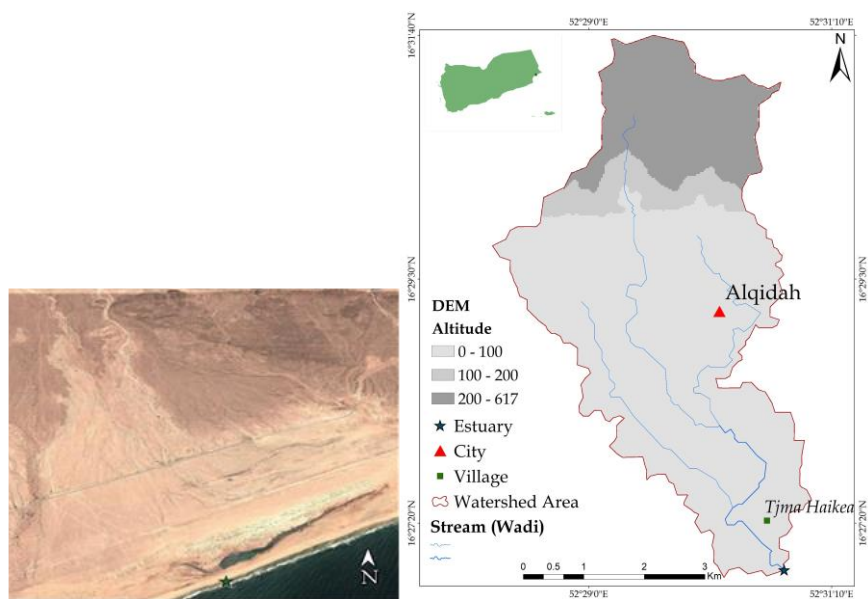


Figure 377. Oro-hydrographic Characteristics of Watershed: Shahren, Almahra(right)& The satellite view of Tjma Haieka Estuary (2010) (left).

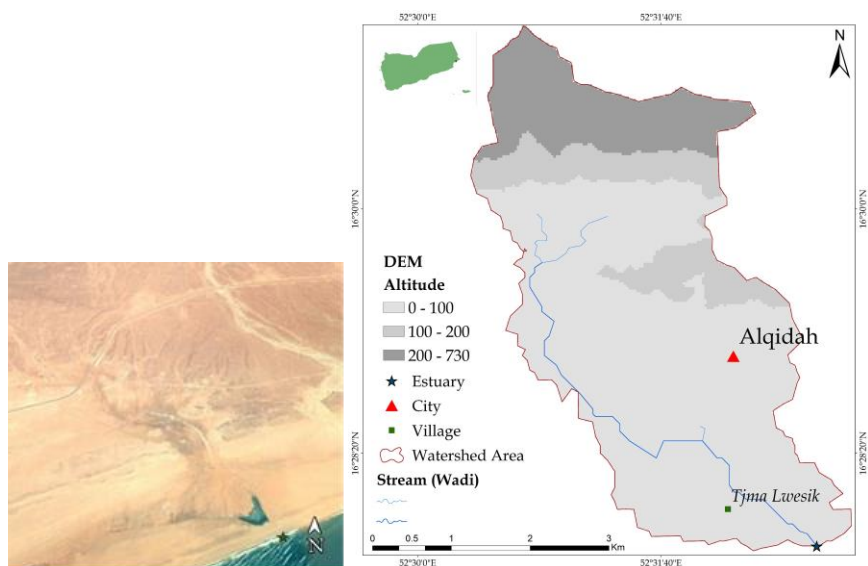


Figure 378. Oro-hydrographic Characteristics of Watershed: Anaeh, Almahra(right)& The satellite view of Tjma Lwesik Estuary (2006) (left).

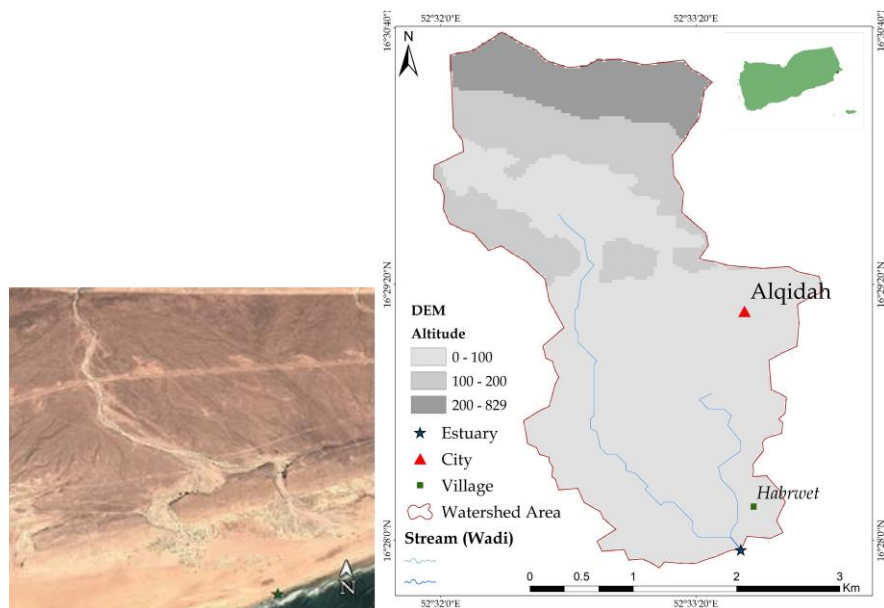


Figure 379. Oro-hydrographic Characteristics of Watershed: Raqiet, Almahra(right)& The satellite view of Habrwet Estuary (2010) (left).

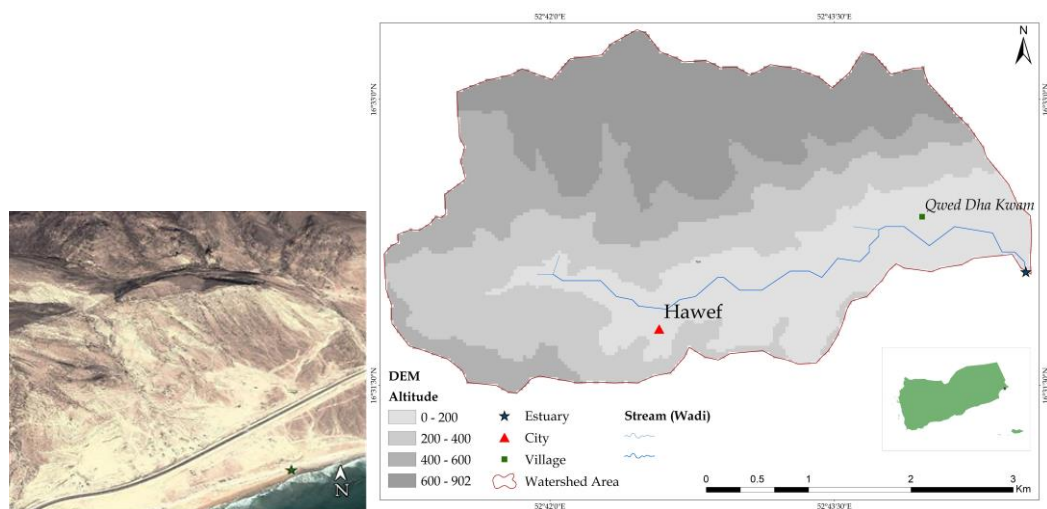


Figure 380. Oro-hydrographic Characteristics of Watershed: Frediet, Almahra(right)& The satellite view of Qwed Dha Kwam Estuary (2010) (left).

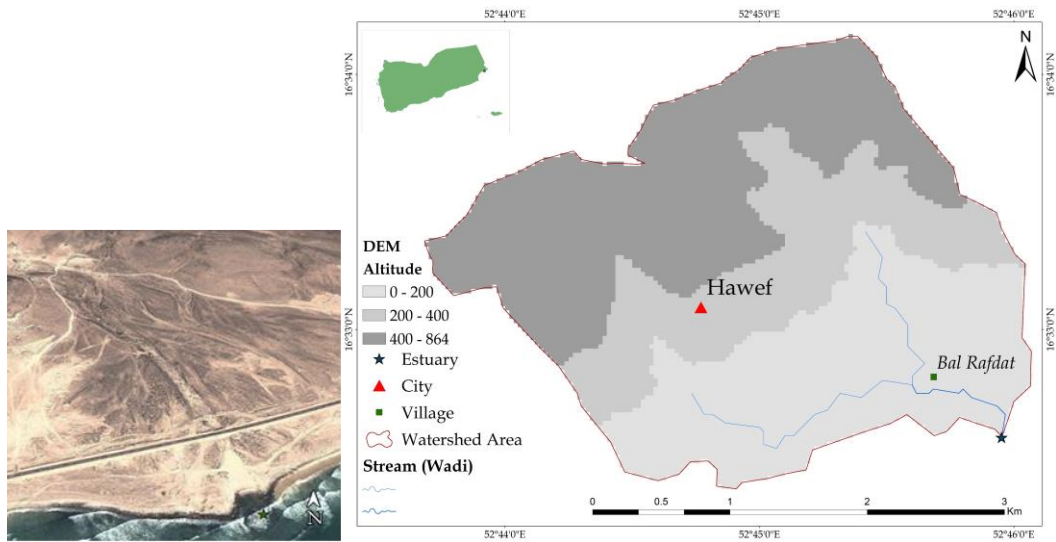


Figure 381. Oro-hydrographic Characteristics of Watershed: Alwaqf, Almahra(right)& The satellite view of Bal Rafdat Estuary (2010) (left).

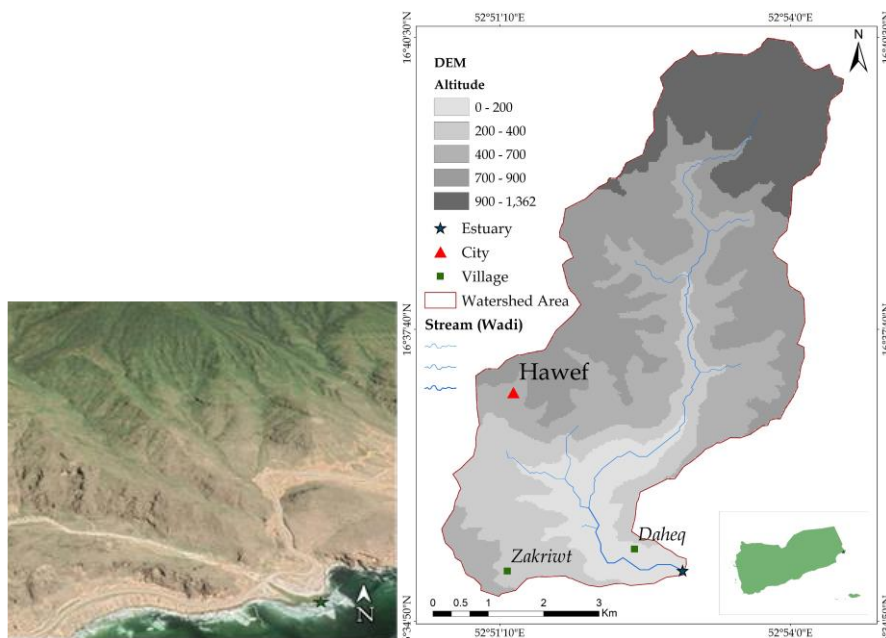


Figure 382. Oro-hydrographic Characteristics of Watershed: Daheq, Almahra(right)& The satellite view of Daheq Estuary (2019) (left).

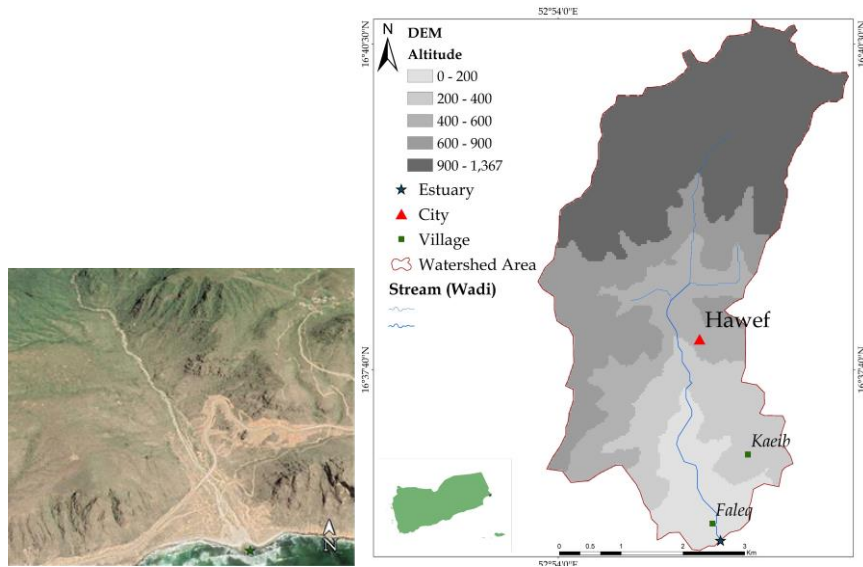


Figure 383. Oro-hydrographic Characteristics of Watershed: Qaeb, Almahra(right)& The satellite view of Faleq Estuary (2019) (left).

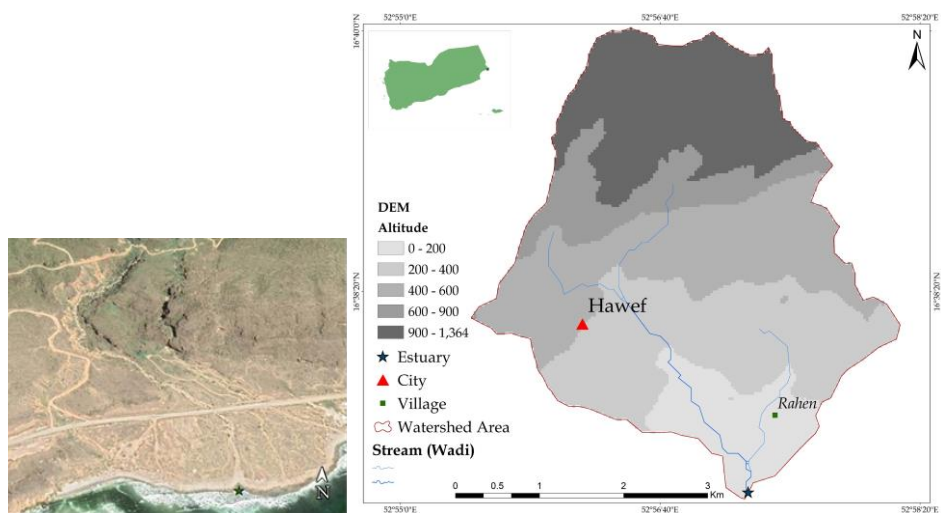


Figure 384. Oro-hydrographic Characteristics of Watershed: Jatheb, Almahra(right)& The satellite view of Rahen Estuary (2019) (left).

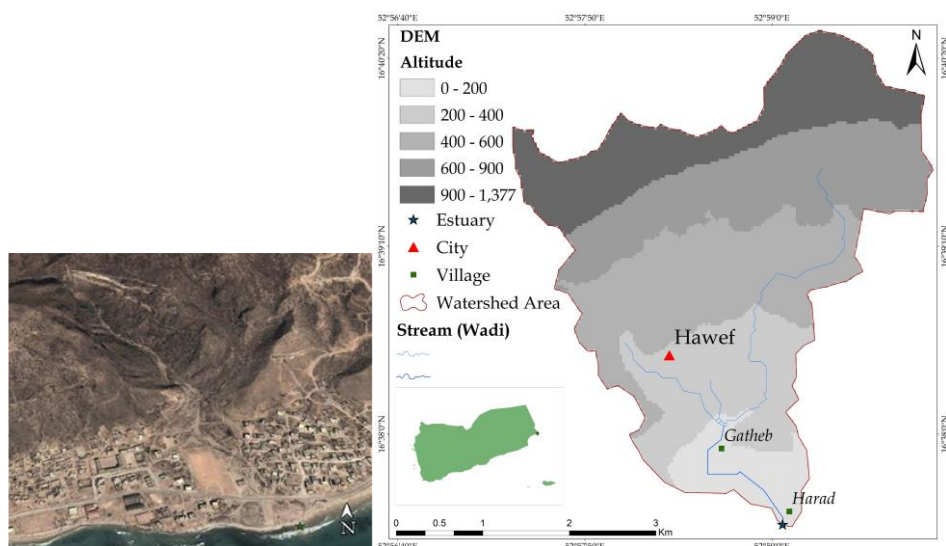


Figure 385. Oro-hydrographic Characteristics of Watershed: Qadwet, Almahra(right)& The satellite view of Harad Estuary (2013) (left).

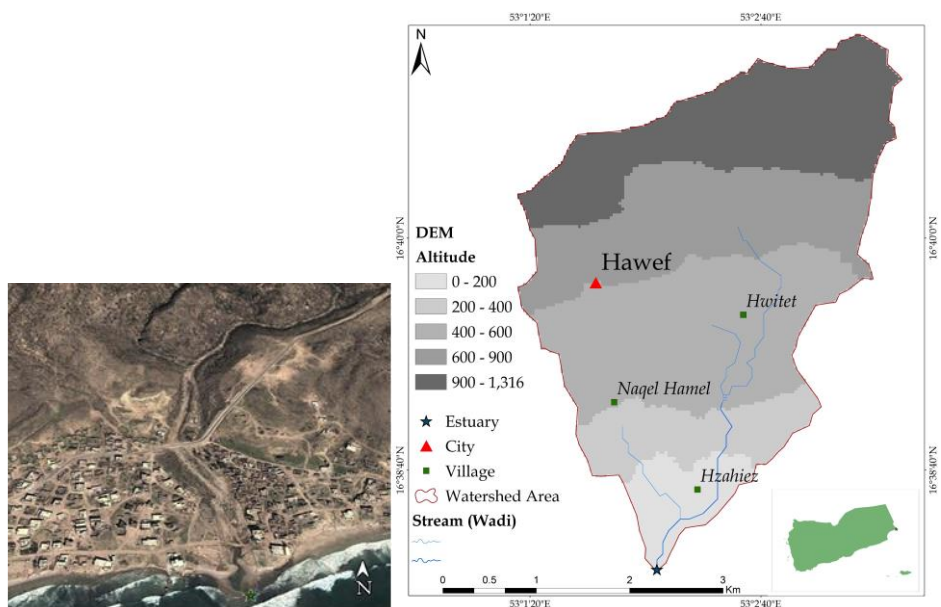


Figure 386. Oro-hydrographic Characteristics of Watershed: Arswas, Almahra(right)& The satellite view of Hzahiez Estuary (2012) (left).

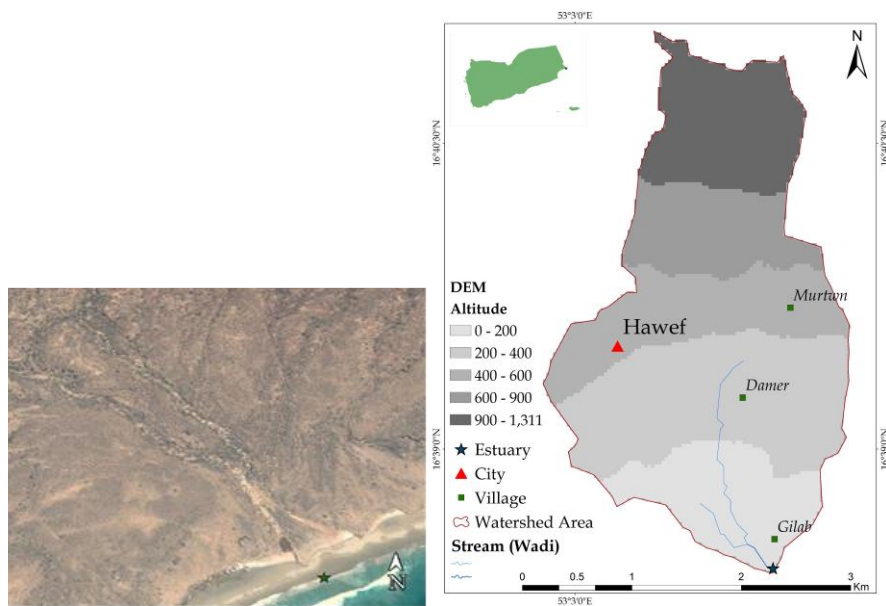


Figure 387. Oro-hydrographic Characteristics of Watershed: Gilab, Almahra(right)& The satellite view of Hzahiz Estuary (2010) (left).

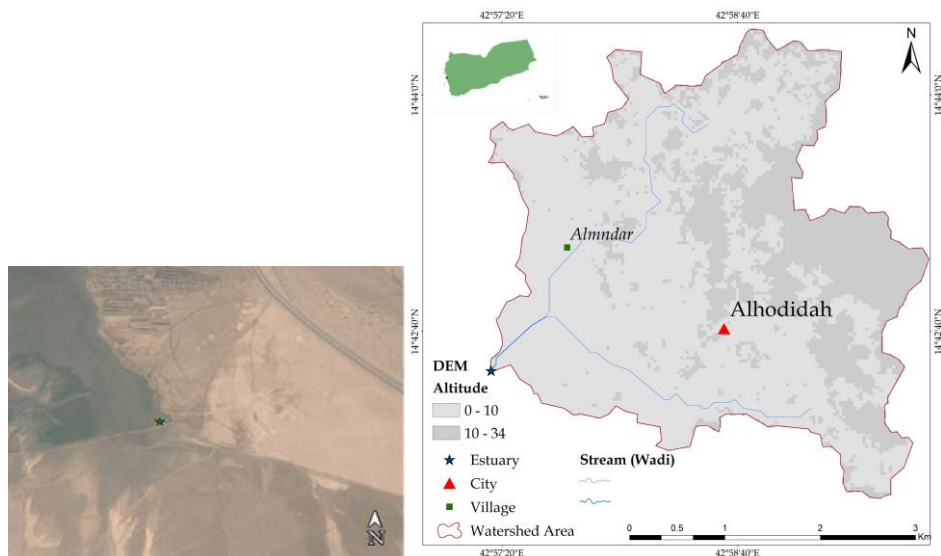


Figure 388. Oro-hydrographic Characteristics of Watershed: Almnajei, Alhodidah(right)& The satellite view of Almndar Estuary (2010) (left).

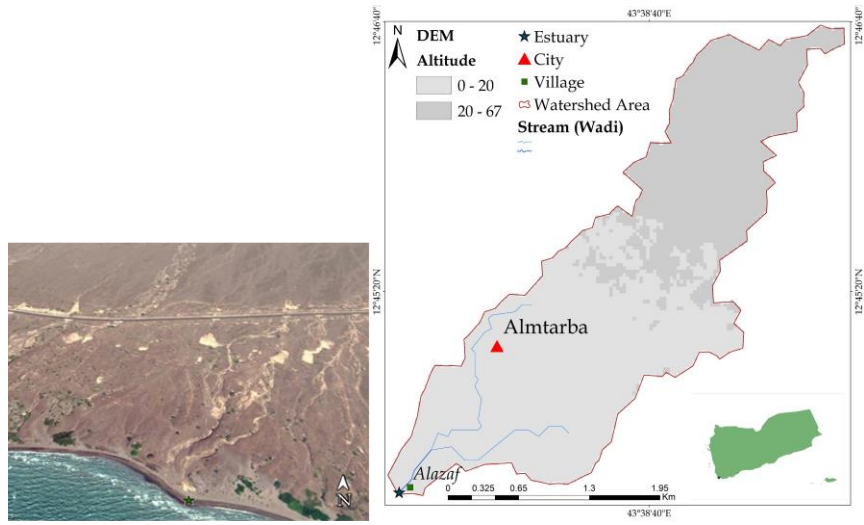


Figure 389. Oro-hydrographic Characteristics of Watershed: Alnabya, Lahej(right)& The satellite view of Alazaf Estuary (2010) (left).

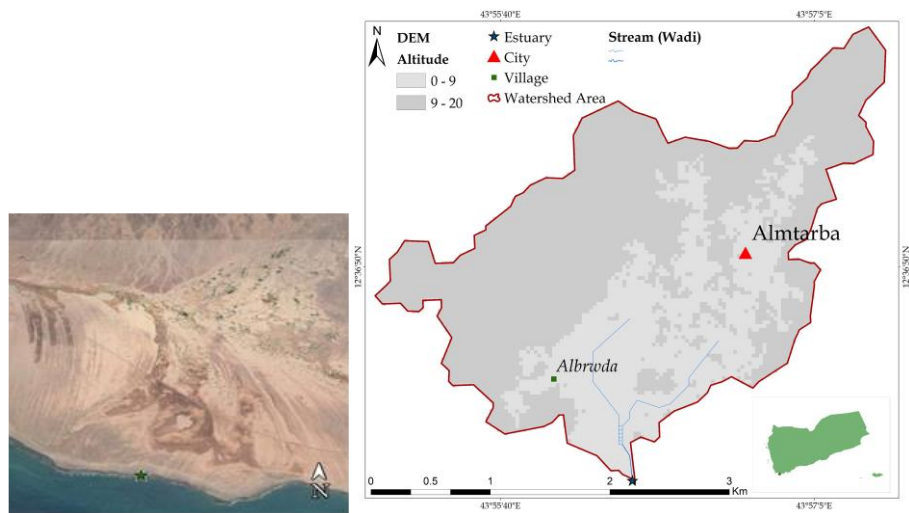


Figure 390. Oro-hydrographic Characteristics of Watershed: Almahja, Lahej(right)& The satellite view of Albrwda Estuary (2016) (left).

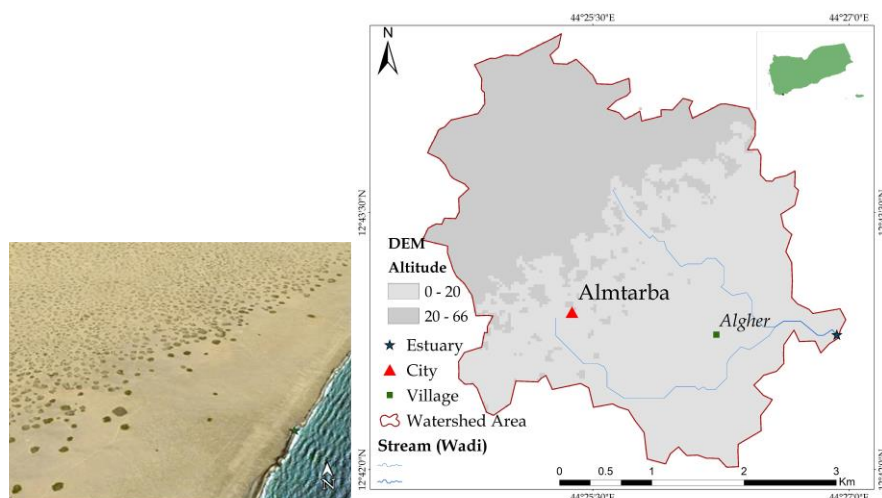


Figure 391. Oro-hydrographic Characteristics of Watershed: Areish, Lahej(right)& The satellite view of Algher Estuary (2016) (left).

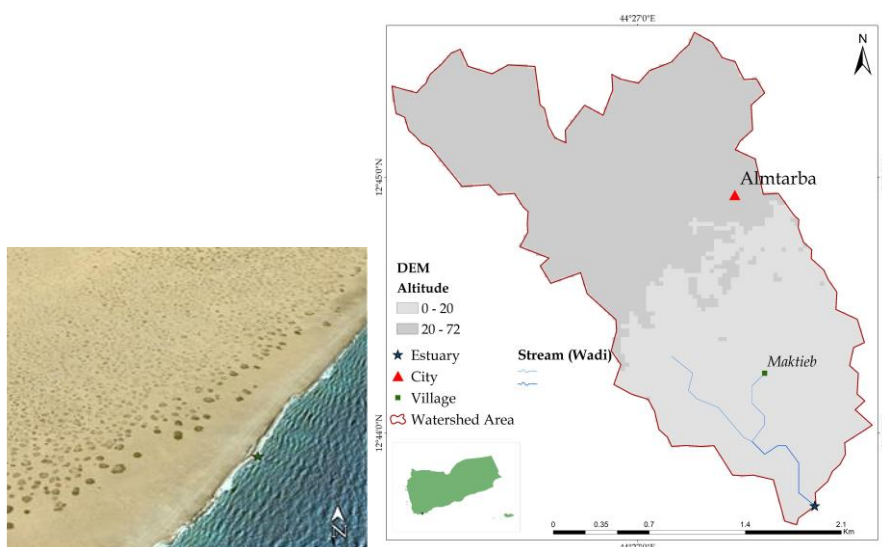


Figure 392. Oro-hydrographic Characteristics of Watershed: Alkweifi, Lahej(right)& The satellite view of Maktieb Estuary (2011) (left).

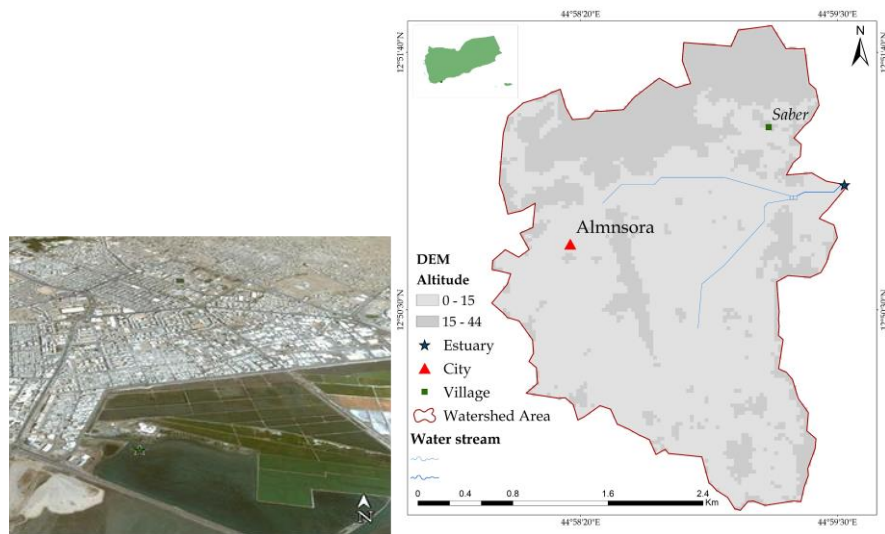


Figure 393. Oro-hydrographic Characteristics of Watershed: Rabad, Aden(right)& The satellite view of Saber Estuary (2011) (left).

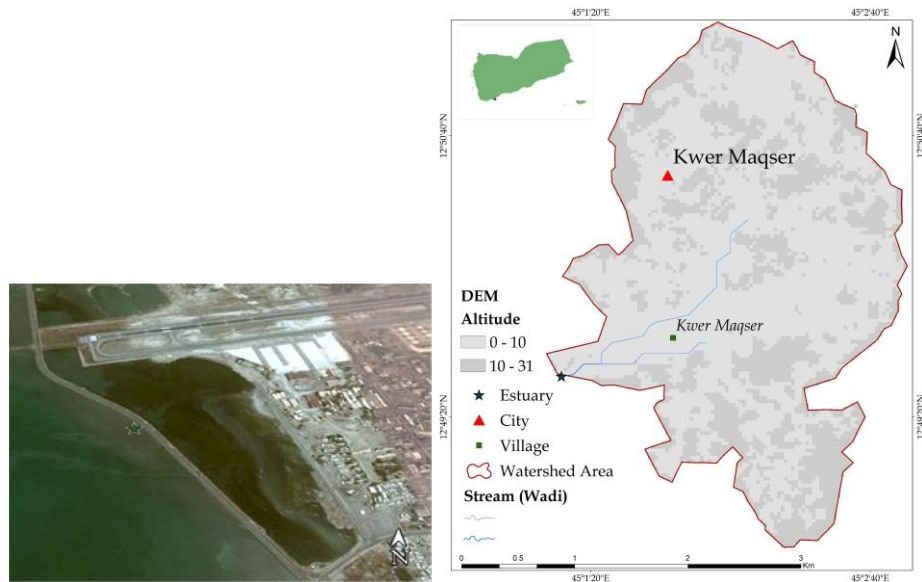


Figure 394. Oro-hydrographic Characteristics of Watershed: Almaela, Aden(right)& The satellite view of Kwer Maqser Estuary (2011) (left).

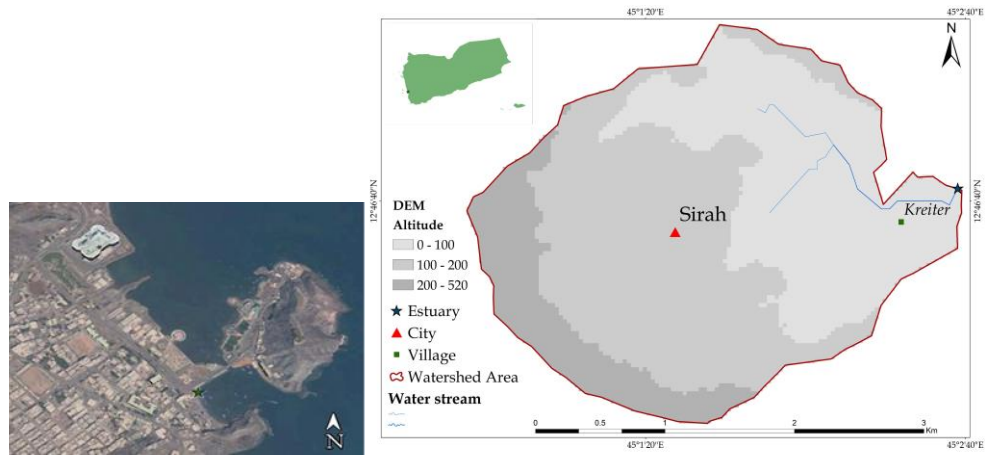


Figure 395. Oro-hydrographic Characteristics of Watershed: Twbathan, Aden(right)& The satellite view of Kreiter Estuary (2011) (left).

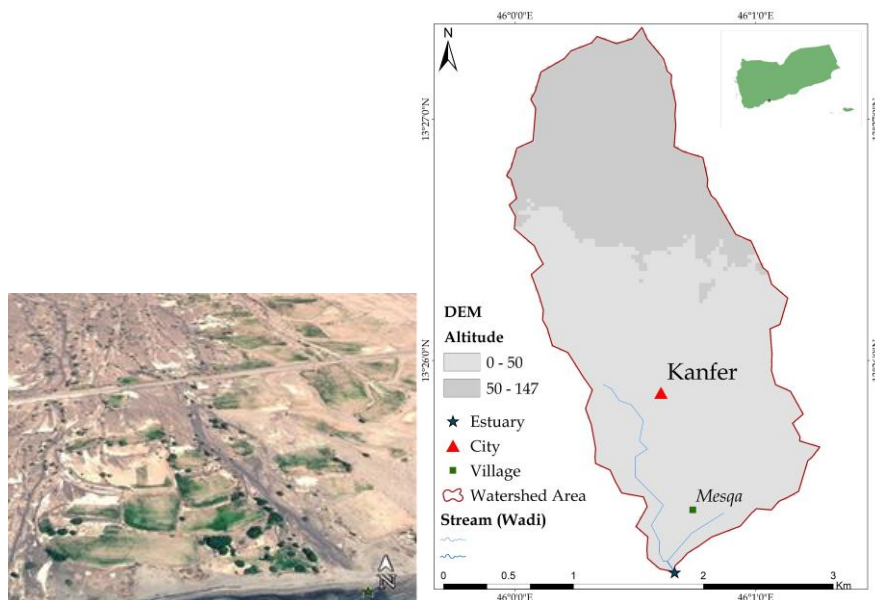


Figure 396. Oro-hydrographic Characteristics of Watershed: Alwdiea, Abyan(right)& The satellite view of Mesqa Estuary (2010) (left).

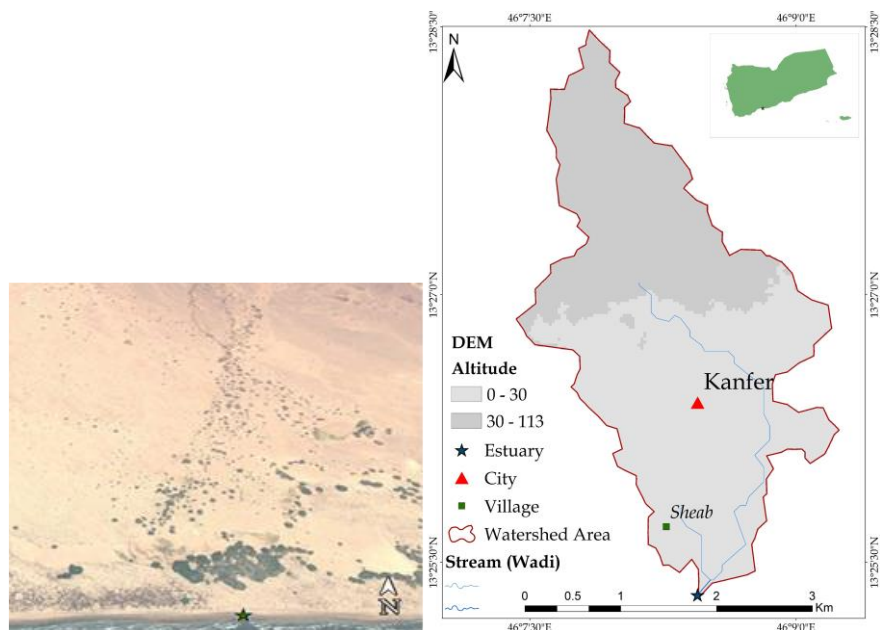


Figure 397. Oro-hydrographic Characteristics of Watershed: Baqisha, Abyan(right)& The satellite view of Sheab Estuary (2010) (left).

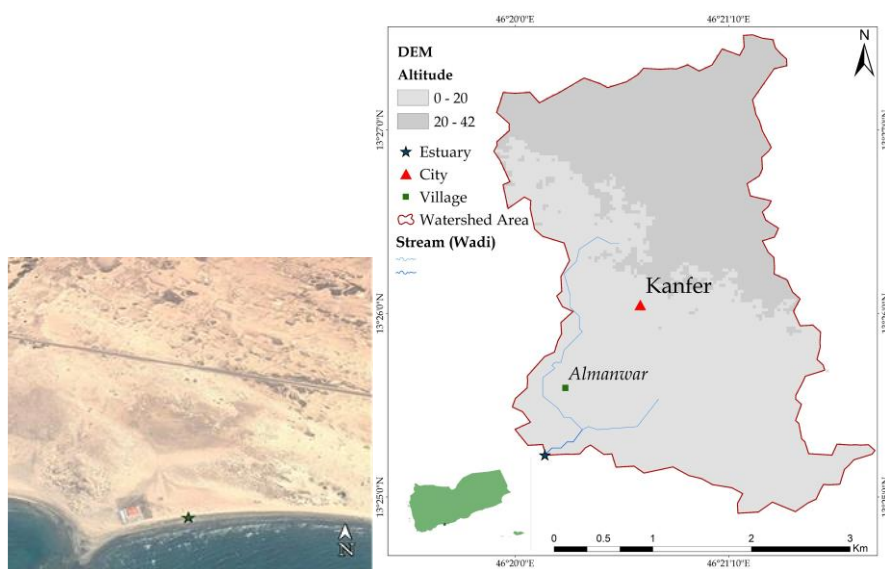


Figure 398. Oro-hydrographic Characteristics of Watershed: Alqwefa, Abyan(right)& The satellite view of Almanwar Estuary (2009) (left).

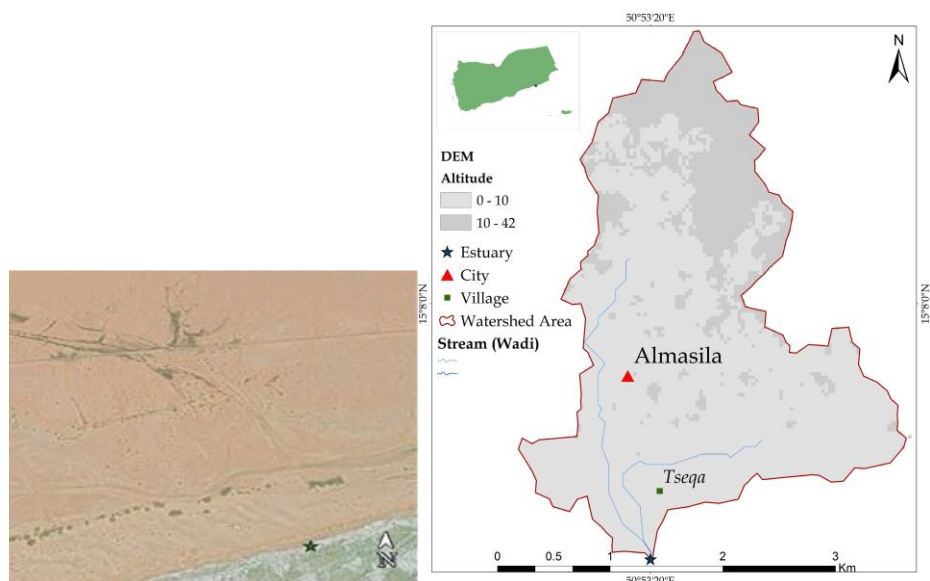


Figure 399. Oro-hydrographic Characteristics of Watershed: Alqyad, Almahra(right)& The satellite view of Tseqa Estuary (2019) (left).

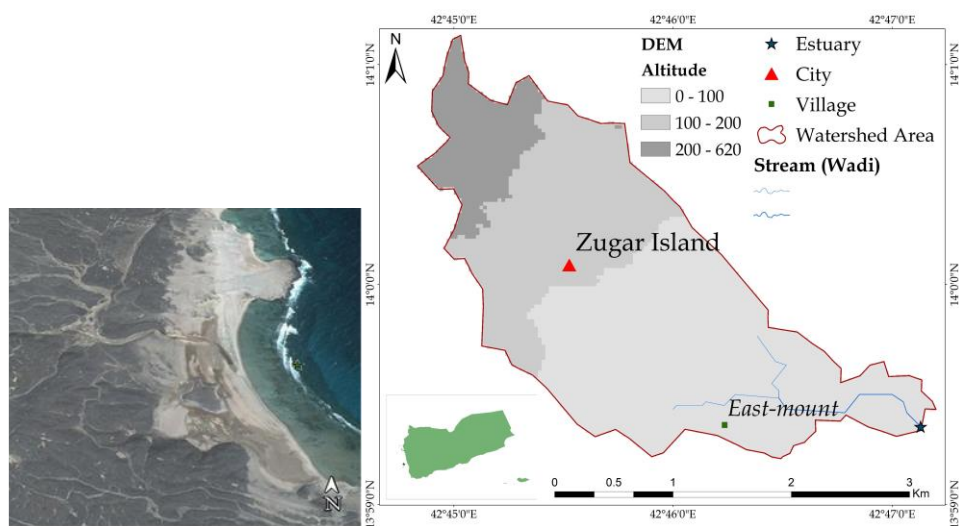


Figure 400. Oro-hydrographic Characteristics of Watershed: East-mount, Zugar Island(right)& The satellite view of East Zugar Island Estuary (2013) (left).

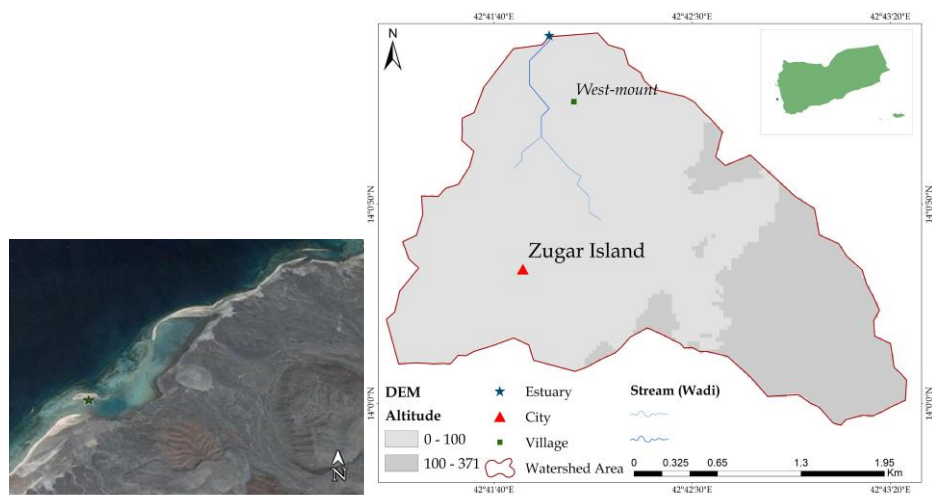


Figure 401. Oro-hydrographic Characteristics of Watershed: West-mount, Alhodidah(right)& The satellite view of West Zugar Island Estuary (2013) (left).

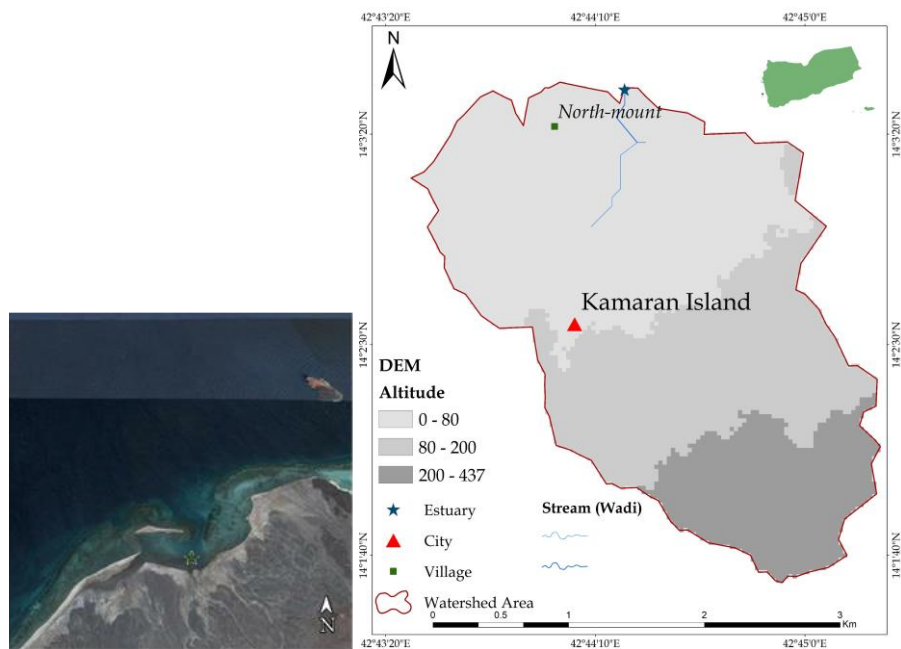


Figure 402. Oro-hydrographic Characteristics of Watershed: North-mount, Alhodidah(right)& The satellite view of North Zugar Island Estuary (2013) (left).

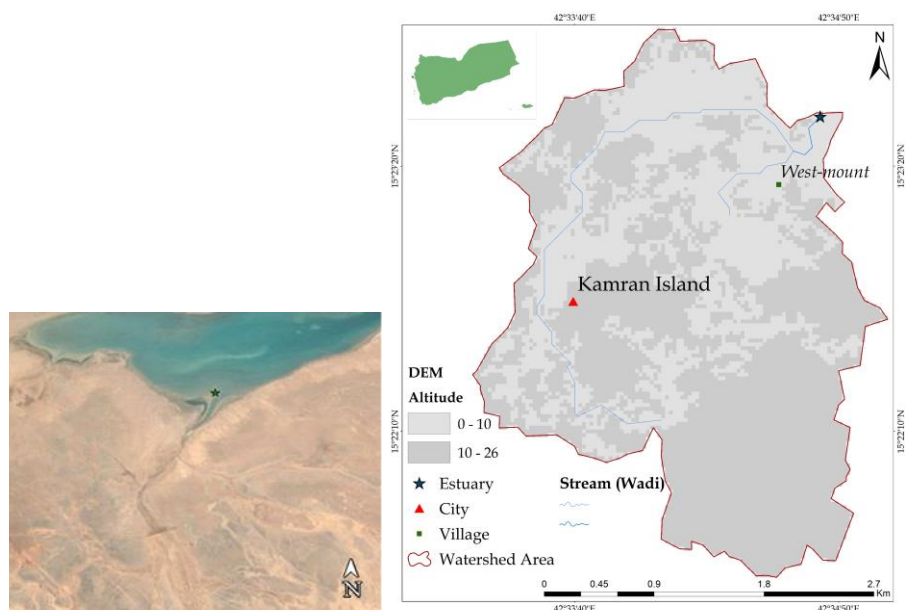


Figure 403. Oro-hydrographic Characteristics of Watershed: West-mount, Kamaran(right)& The satellite view of West Kamran Island Estuary (2013) (left).

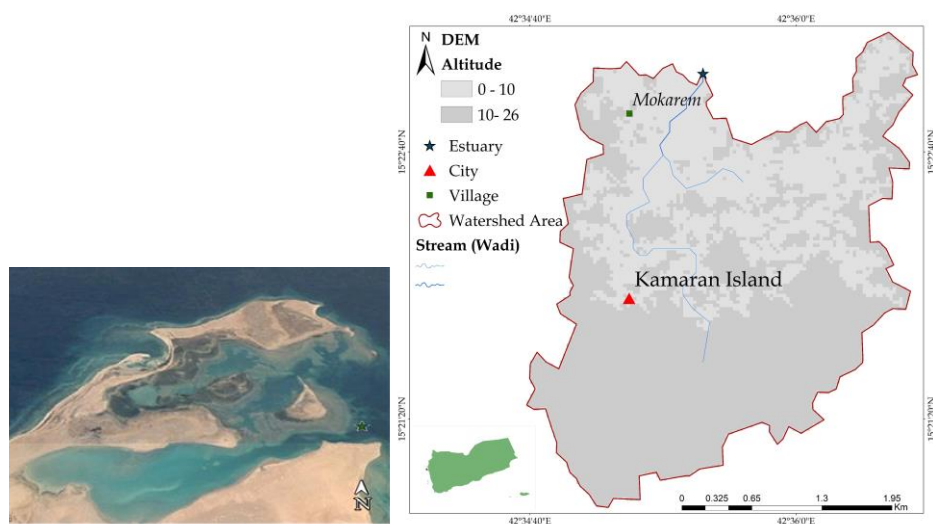


Figure 404. Oro-hydrographic Characteristics of Watershed: Mokarem, Alhodidah(right)& The satellite view of Mokarem Estuary (2013) (left).

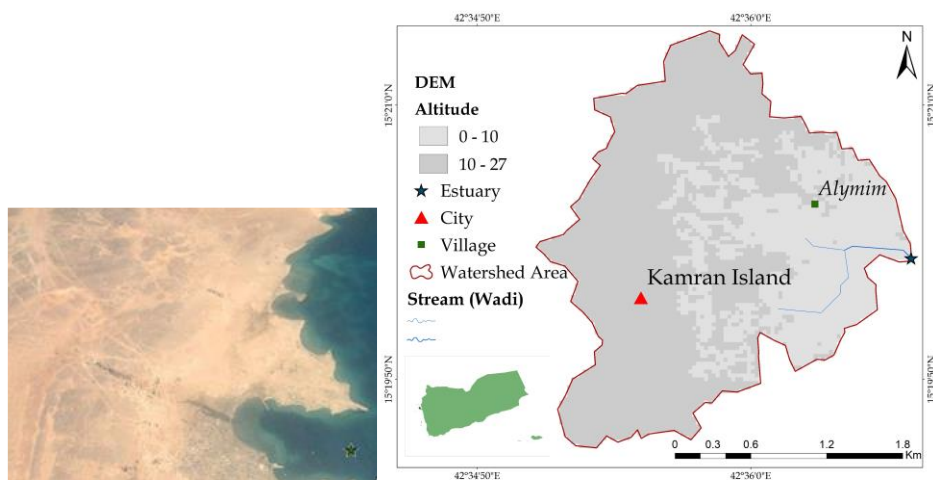


Figure 405. Oro-hydrographic Characteristics of Watershed: Alymim, Alhodidah(right)& The satellite view of Alymim Estuary (2013) (left).

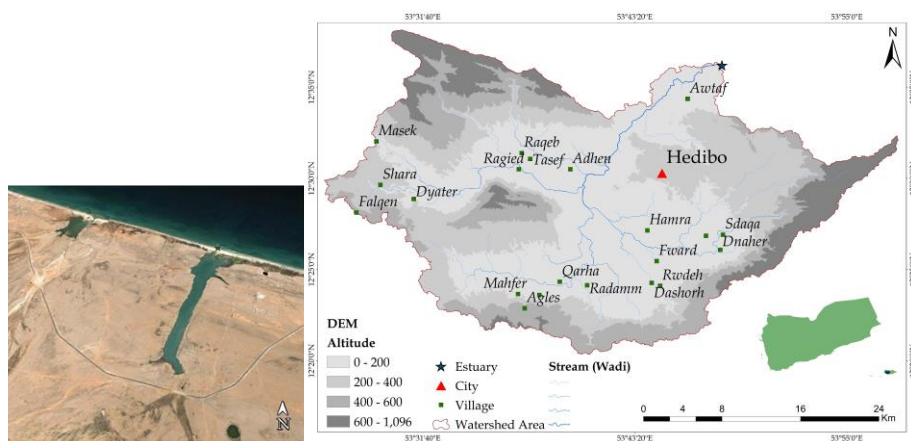


Figure 406. Oro-hydrographic Characteristics of Watershed: Atrwer, Socotra(right)& The satellite view of Awtaf Estuary (2006) (left).

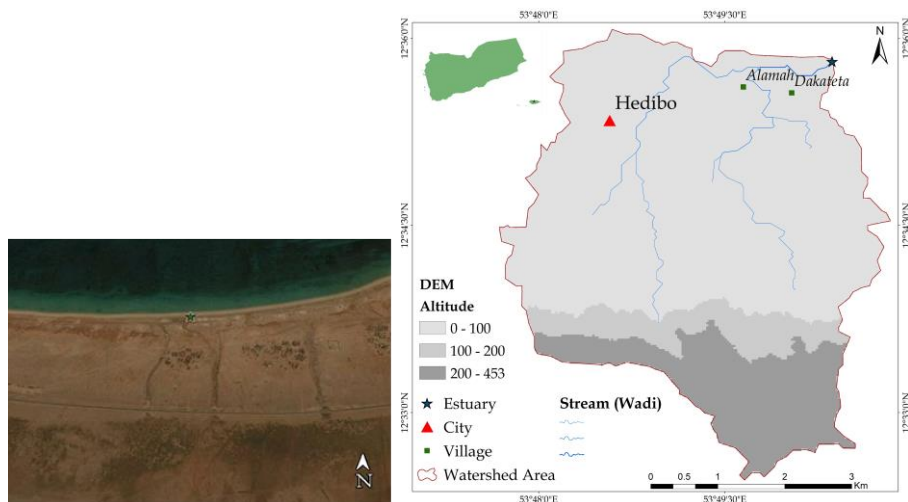


Figure 407. Oro-hydrographic Characteristics of Watershed: Sharhen, Socotra(right)& The satellite view of Alamah Estuary (2014) (left).

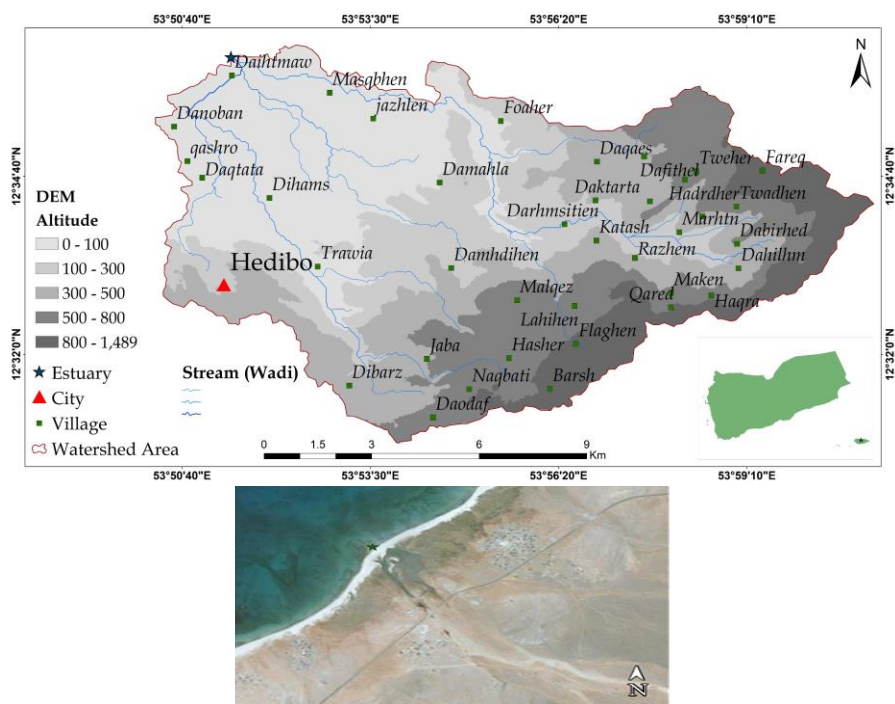


Figure 408. Oro-hydrographic Characteristics of Watershed: Traba, Socotra(right)& The satellite view of Daihtmaw Estuary (2016) (below).

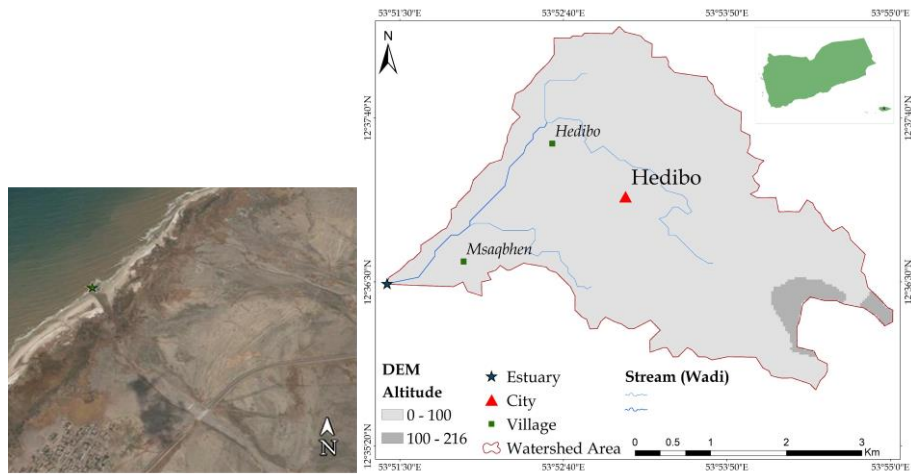


Figure 409. Oro-hydrographic Characteristics of Watershed: Mawri, Socotra(right)& The satellite view of Msaqbhen Estuary (2002) (left).

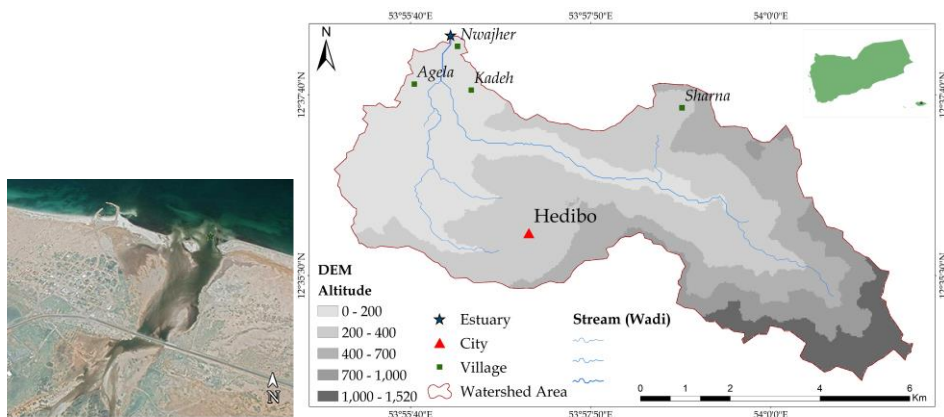


Figure 410. Oro-hydrographic Characteristics of Watershed: Sharena, Socotra(right)& The satellite view of Nwajher Estuary (2018) (left).

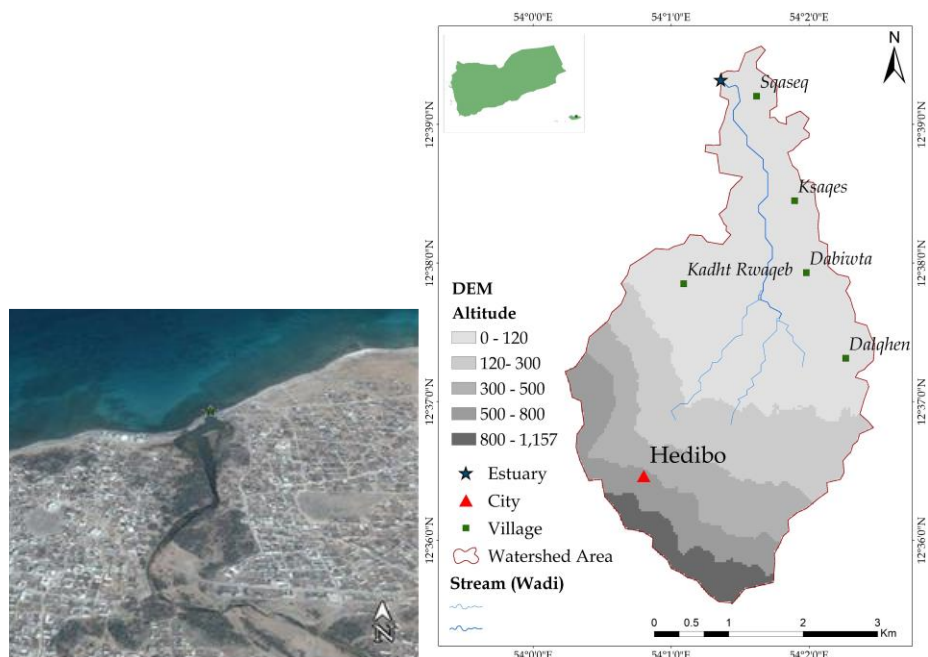


Figure 411. Oro-hydrographic Characteristics of Watershed: Danhgen, Socotra(right)& The satellite view of Sqaseq Estuary (2016) (left).

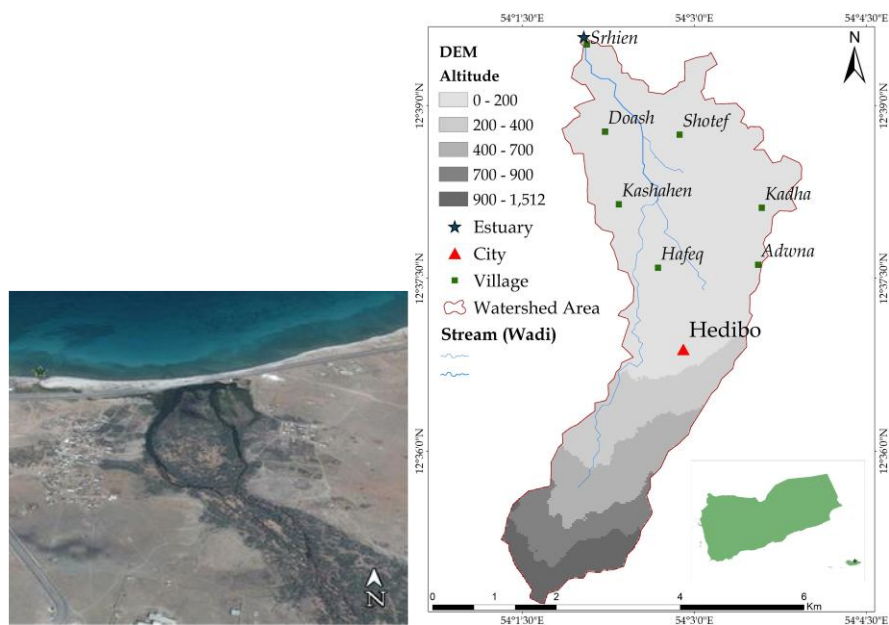


Figure 412. Oro-hydrographic Characteristics of Watershed: Qshayhen, Socotra(right)& The satellite view of Srhien Estuary (2016) (left).

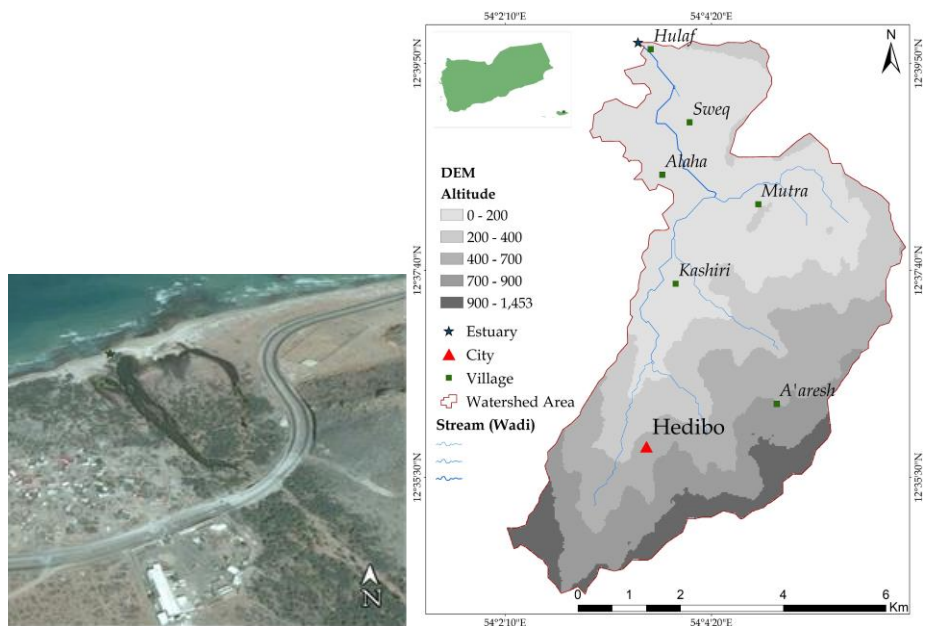


Figure 413. Oro-hydrographic Characteristics of Watershed: Hashera, Socotra(right)& The satellite view of Hulaf Estuary (2016) (left).

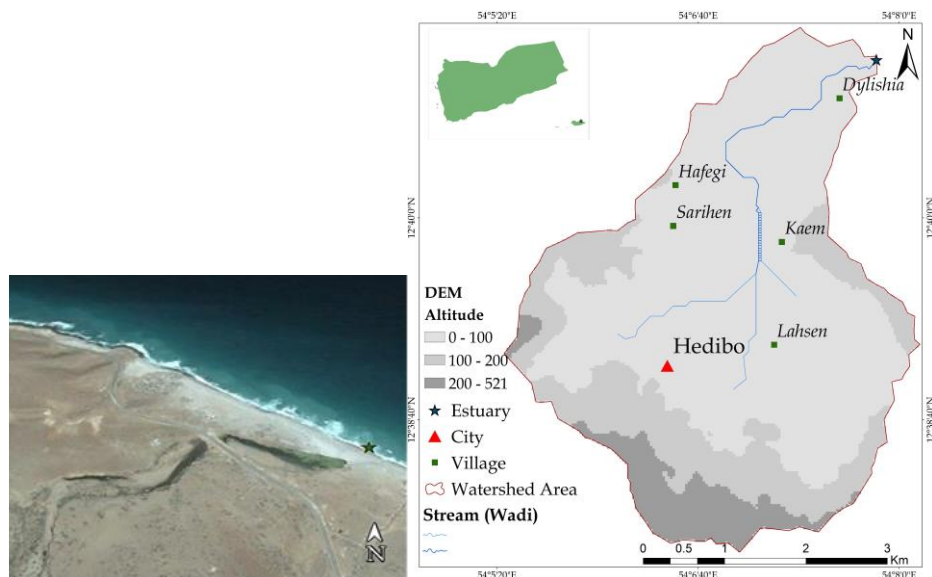


Figure 414. Oro-hydrographic Characteristics of Watershed: Saryhen, Socotra(right)& The satellite view of Dylishia Estuary (2016) (left).

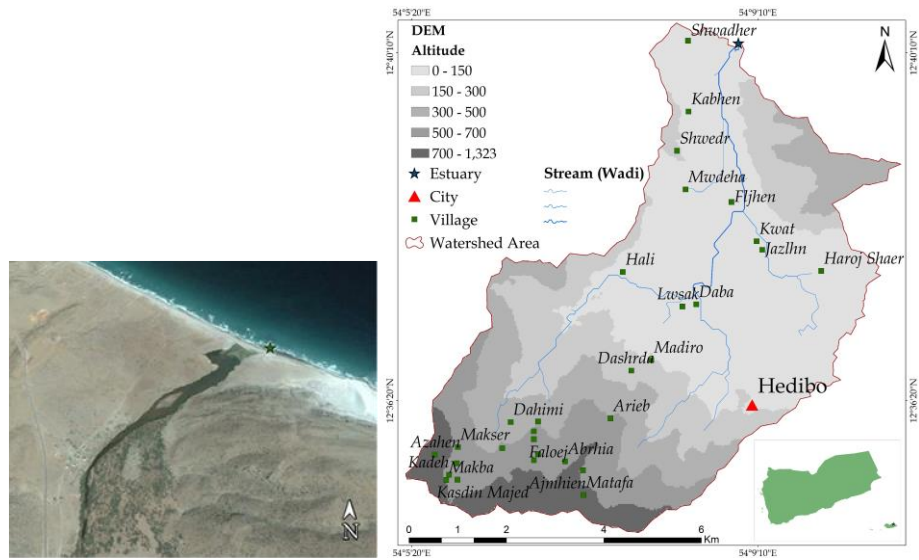


Figure 415. Oro-hydrographic Characteristics of Watershed: Baneh, Socotra(right)& The satellite view of Shwadher Estuary (2016) (left).

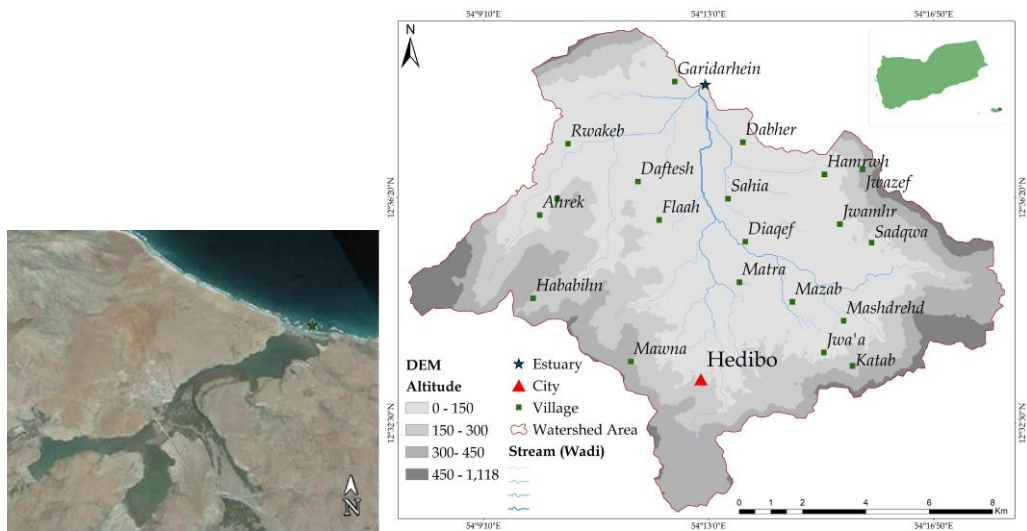


Figure 416. Oro-hydrographic Characteristics of Watershed: Dwaq, Socotra(right)& The satellite view of Garidarhein Estuary (2016) (left).

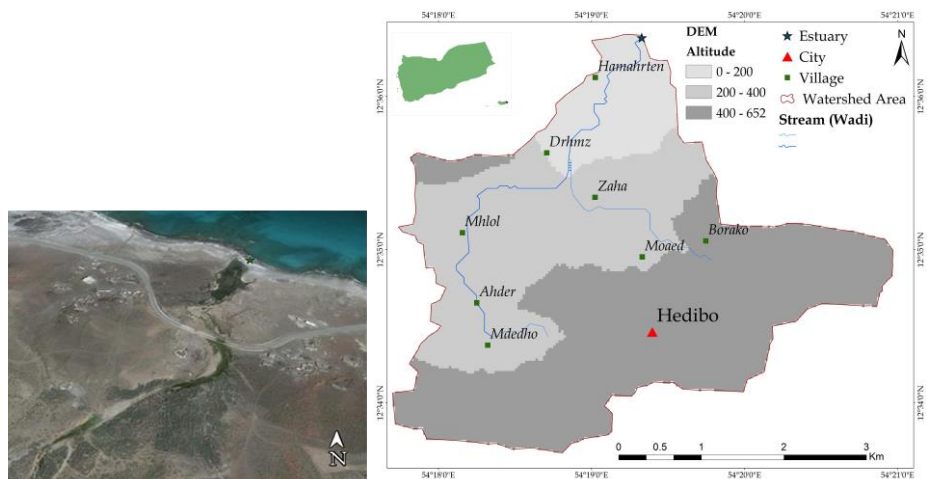


Figure 417. Oro-hydrographic Characteristics of Watershed: Tmirwh, Socotra(right)& The satellite view of Hamahrten Estuary (2016) (left).

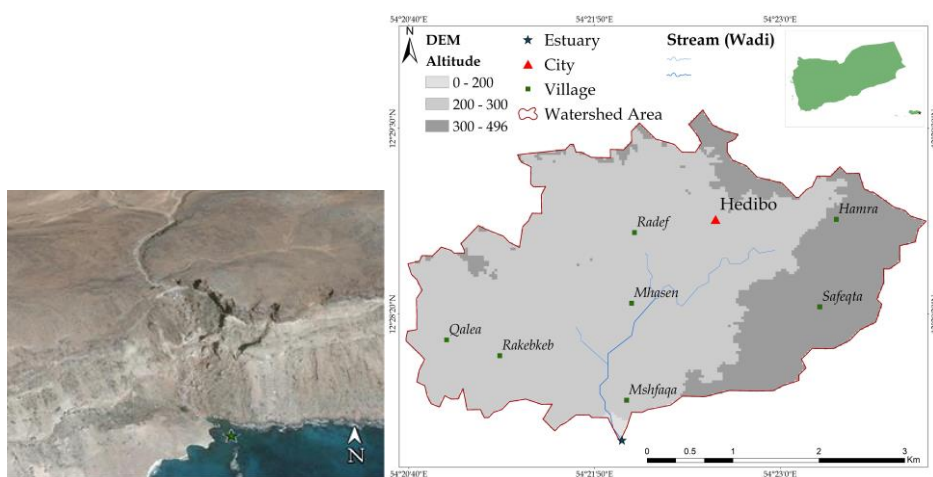


Figure 418. Oro-hydrographic Characteristics of Watershed: Bansha, Socotra(right)& The satellite view of Mshfaqa Estuary (2016) (left).

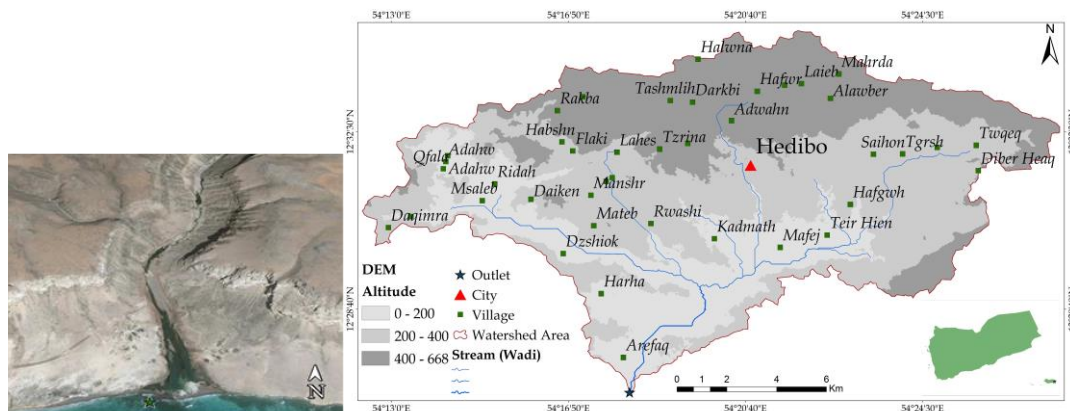


Figure 419. Oro-hydrographic Characteristics of Watershed: Matief, Socotra(right)& The satellite view of Arefaq Estuary (2016) (left).

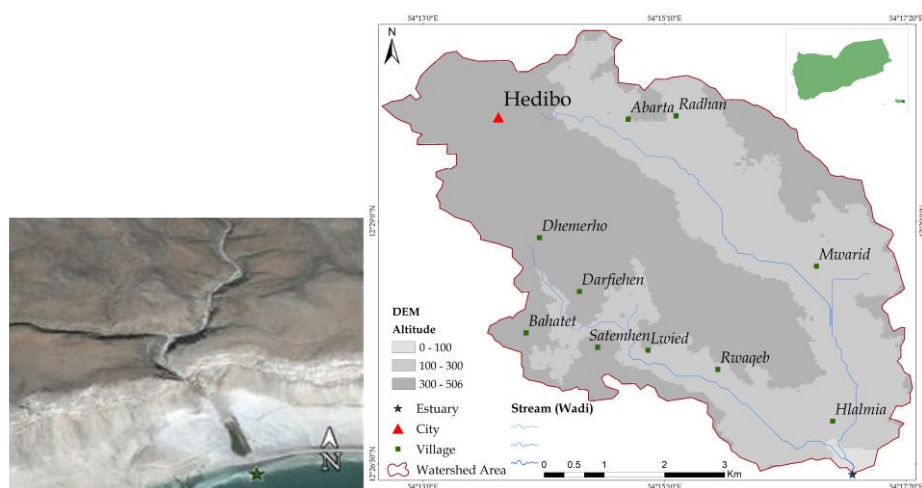


Figure 420. Oro-hydrographic Characteristics of Watershed: Hwreho, Socotra(right)& The satellite view of Halmia Estuary (2016) (left).

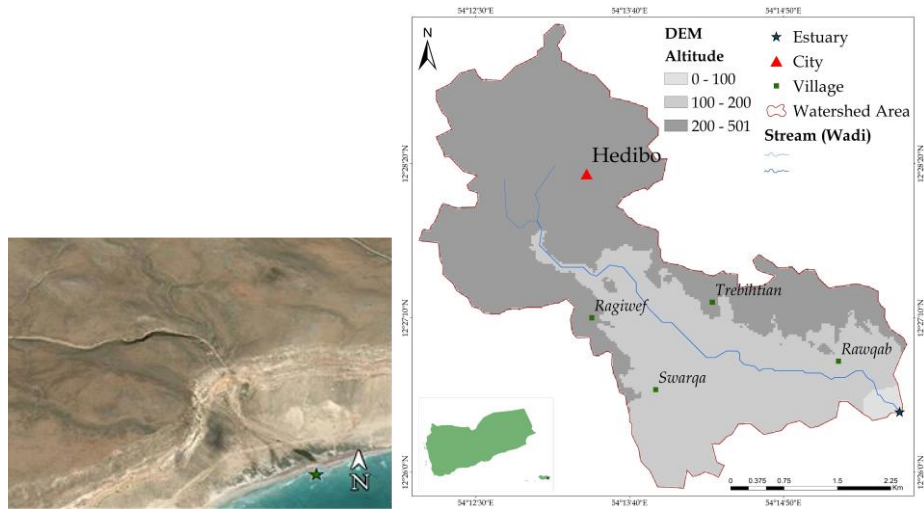


Figure 421. Oro-hydrographic Characteristics of Watershed: Shbhwen, Socotra(right)& The satellite view of Rawqab Estuary (2014) (left).

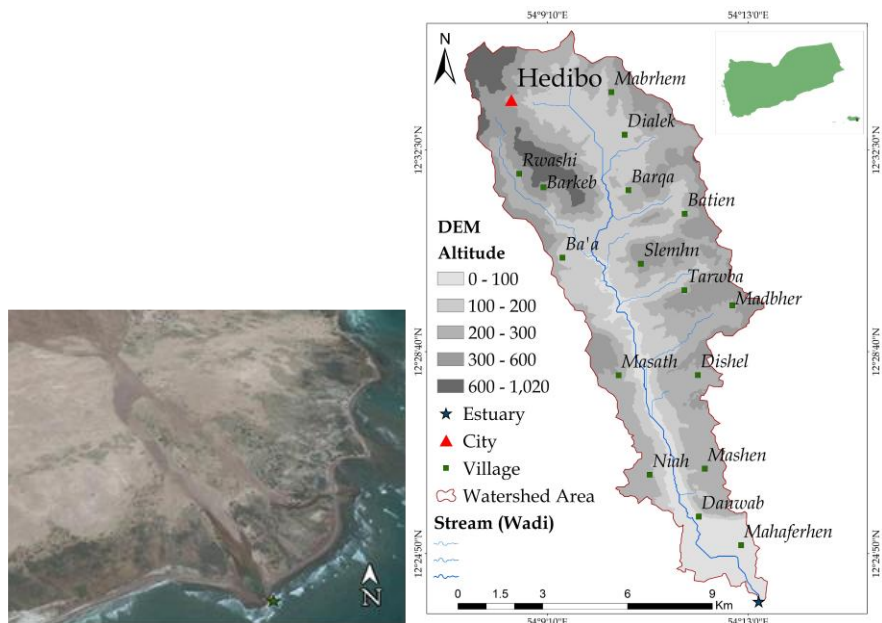


Figure 422. Oro-hydrographic Characteristics of Watershed: Farahw, Socotra(right)& The satellite view of Mahaferhen Estuary (2015) (left).

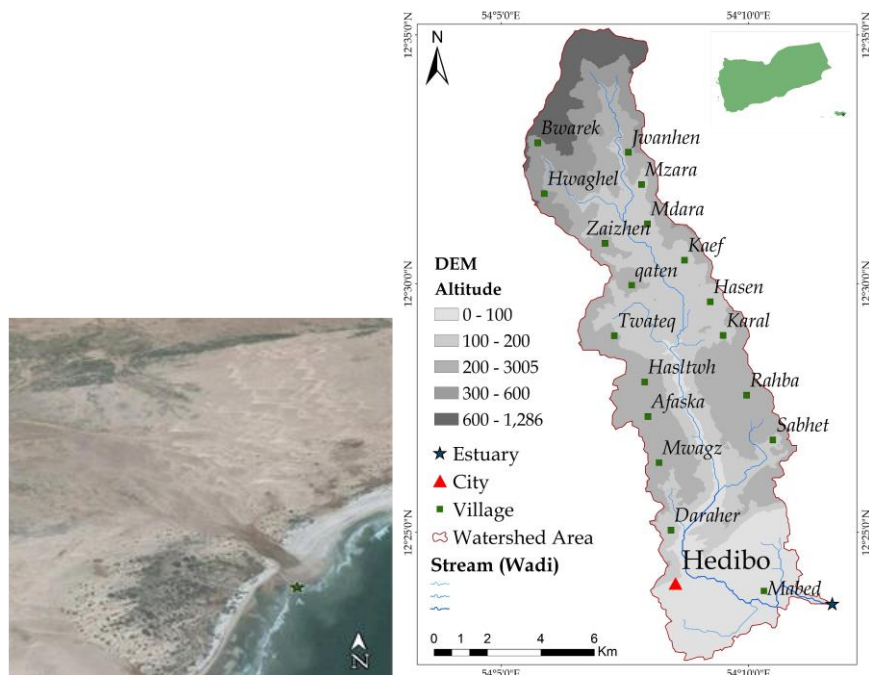


Figure 423. Oro-hydrographic Characteristics of Watershed: Yafarhw, Socotra(right)& The satellite view of Mabed Estuary (2015) (left).

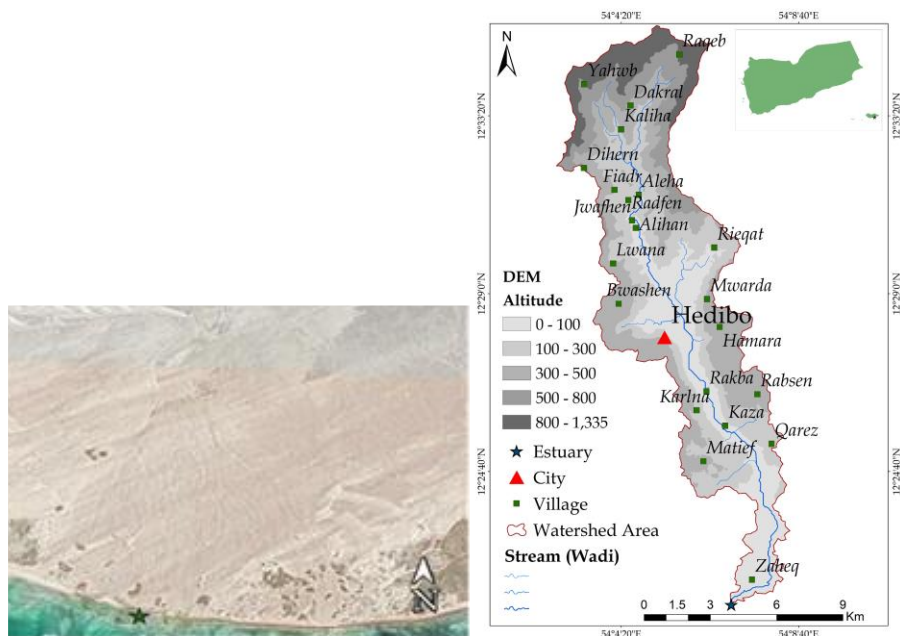


Figure 424. Oro-hydrographic Characteristics of Watershed: Yezazhw, Socotra(right)& The satellite view of Zaheq Estuary (2019) (left).

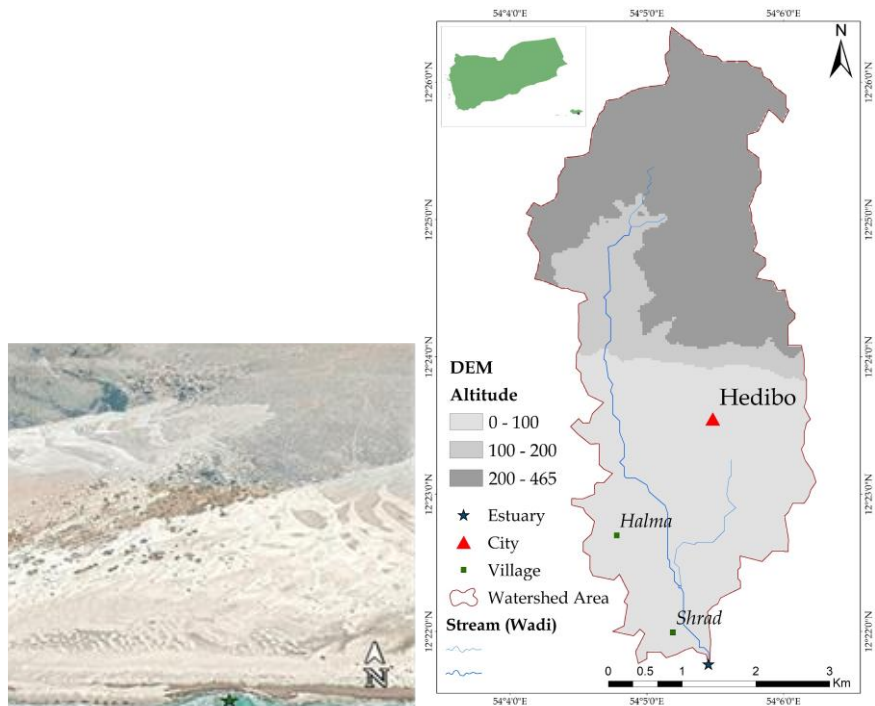


Figure 425. Oro-hydrographic Characteristics of Watershed: Hashra, Socotra(right)& The satellite view of Shrad Estuary (2019) (left).

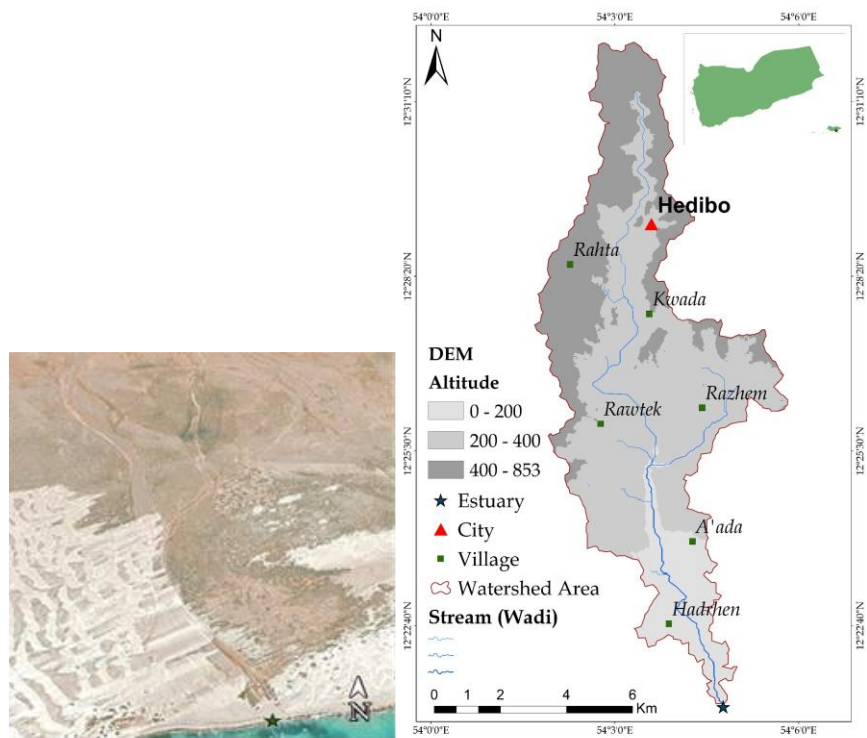


Figure 426. Oro-hydrographic Characteristics of Watershed: Zanzana, Socotra(right)& The satellite view of Hadrhen Estuary (2019) (left).

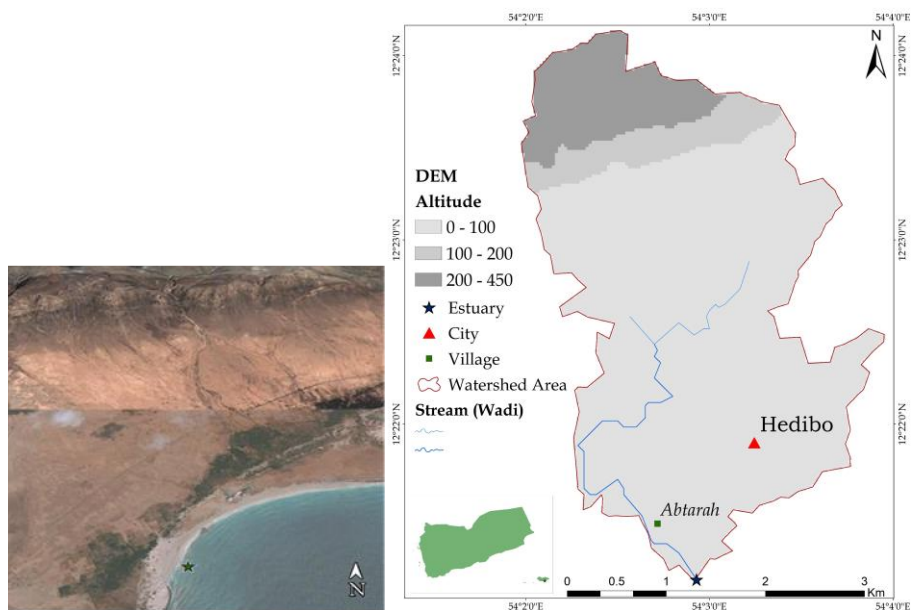


Figure 427. Oro-hydrographic Characteristics of Watershed: Kandeq, Socotra(right)& The satellite view of Abtarah Estuary (2013) (left).

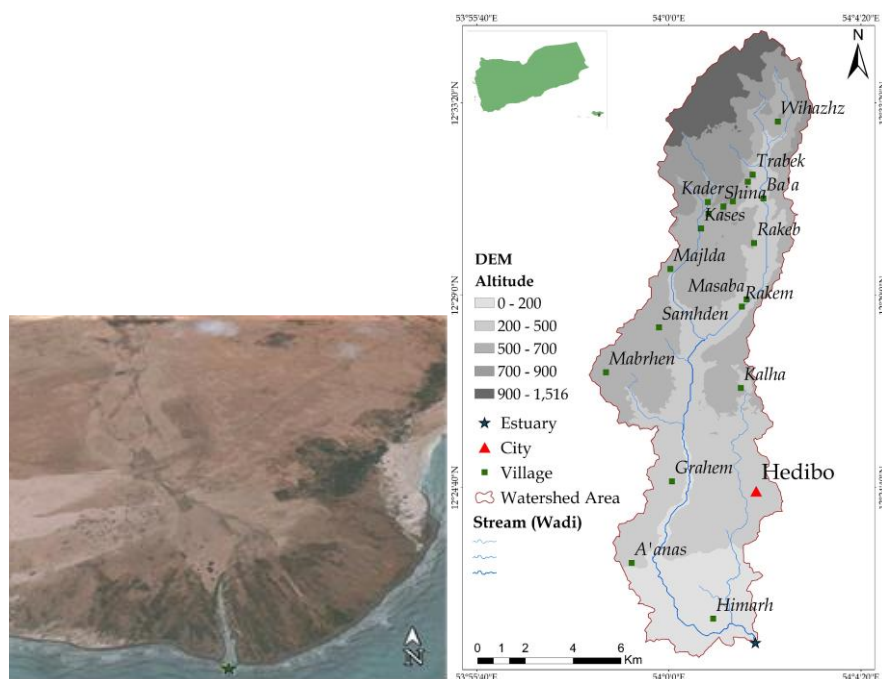


Figure 428. Oro-hydrographic Characteristics of Watershed: Darher, Socotra(right)& The satellite view of Himarh Estuary (2013) (left).

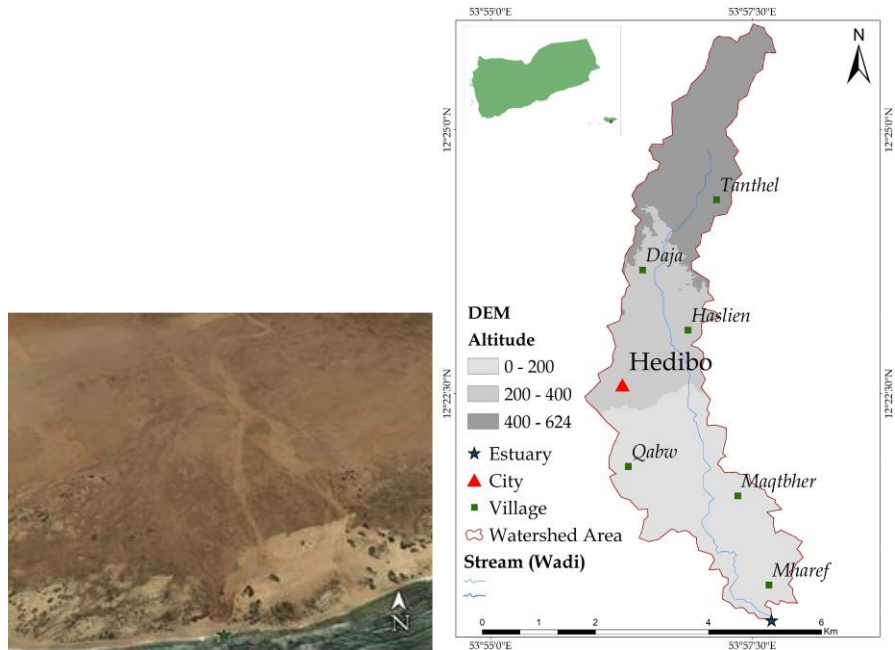


Figure 429. Oro-hydrographic Characteristics of Watershed: Maqnabher, Socotra(right)& The satellite view of Mharef Estuary (2017) (left).

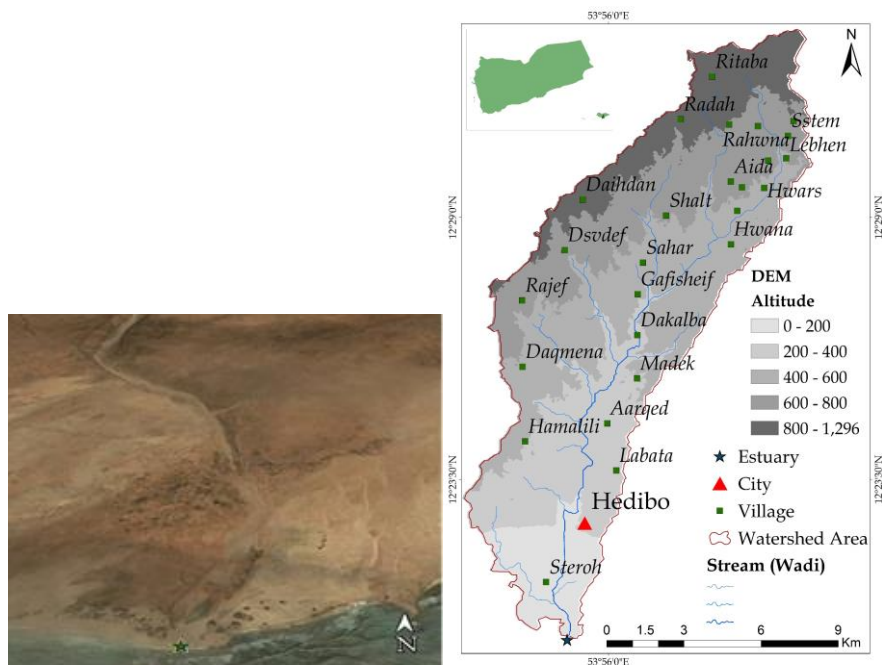


Figure 430. Oro-hydrographic Characteristics of Watershed: Faqeh, Socotra(right)& The satellite view of Steroh Estuary (2016) (left).

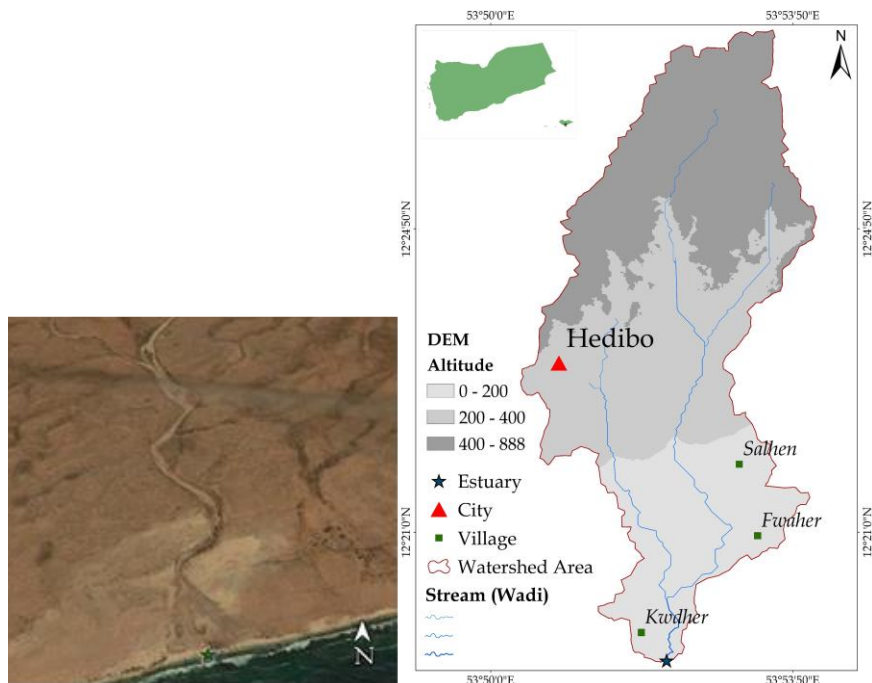


Figure 431. Oro-hydrographic Characteristics of Watershed: Fwahr, Socotra(right)& The satellite view of Kwdher Estuary (2015) (left).

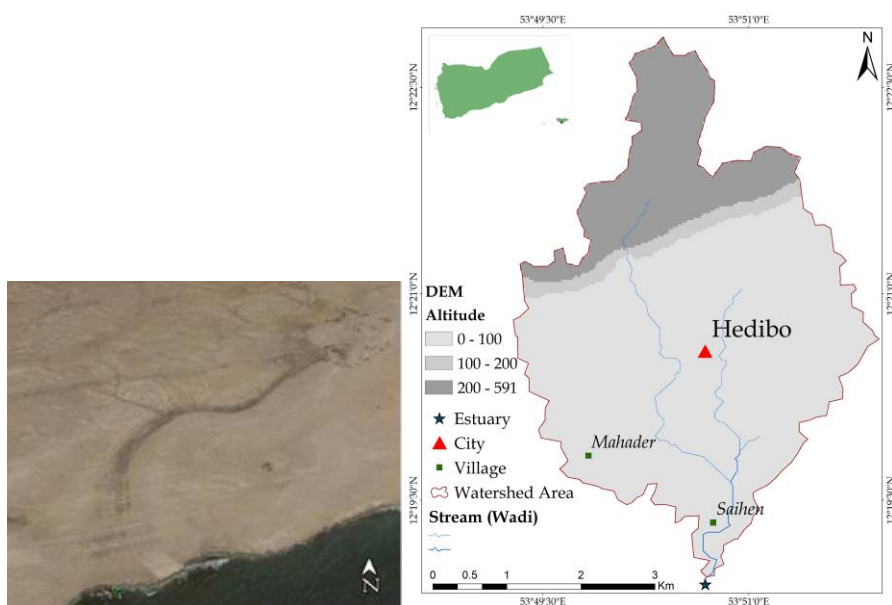


Figure 432. Oro-hydrographic Characteristics of Watershed: Saihen, Socotra(right)& The satellite view of Saihen Estuary (2004) (left).

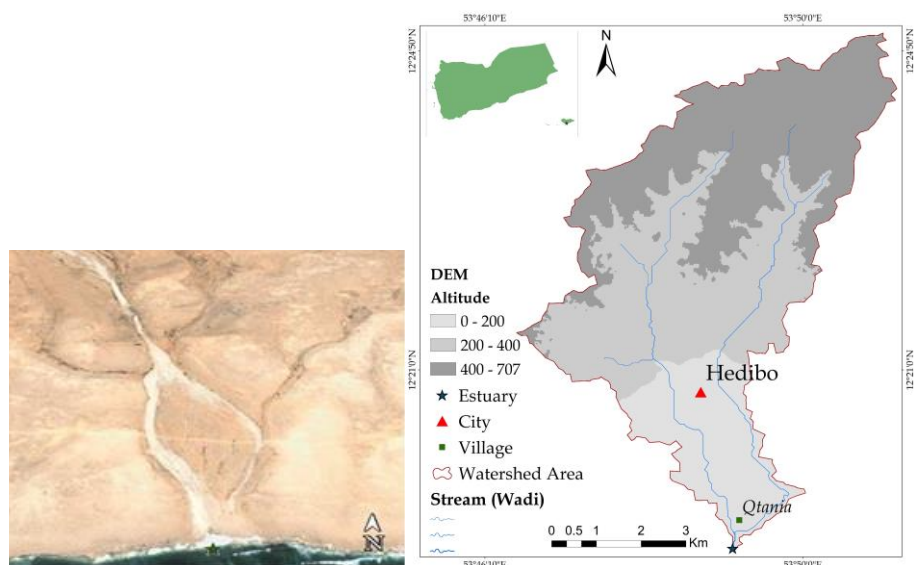


Figure 433. Oro-hydrographic Characteristics of Watershed: Gameh, Socotra(right)& The satellite view of Qtania Estuary (2006) (left).

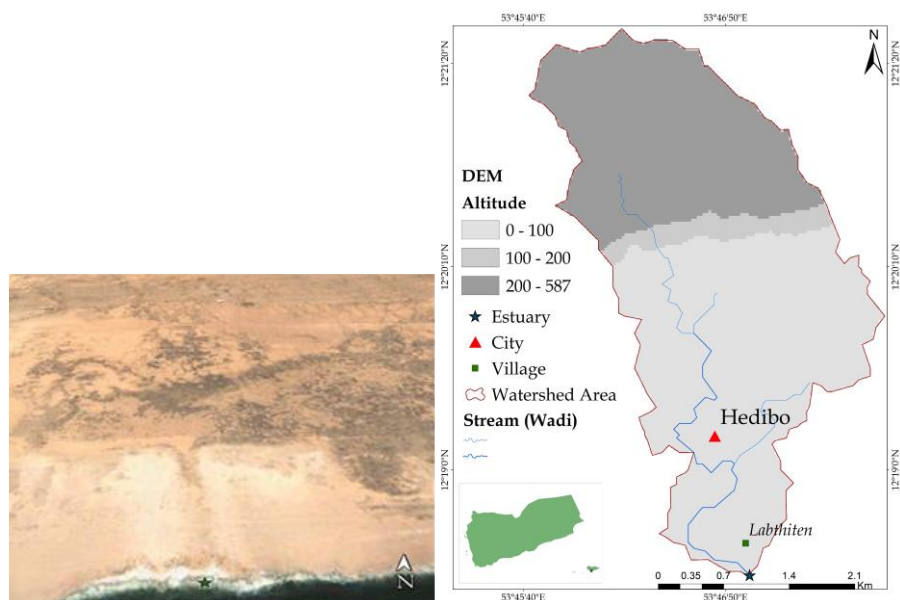


Figure 434. Oro-hydrographic Characteristics of Watershed: Mashanwa, Socotra(right)& The satellite view of Labthiten Estuary (2006) (left).

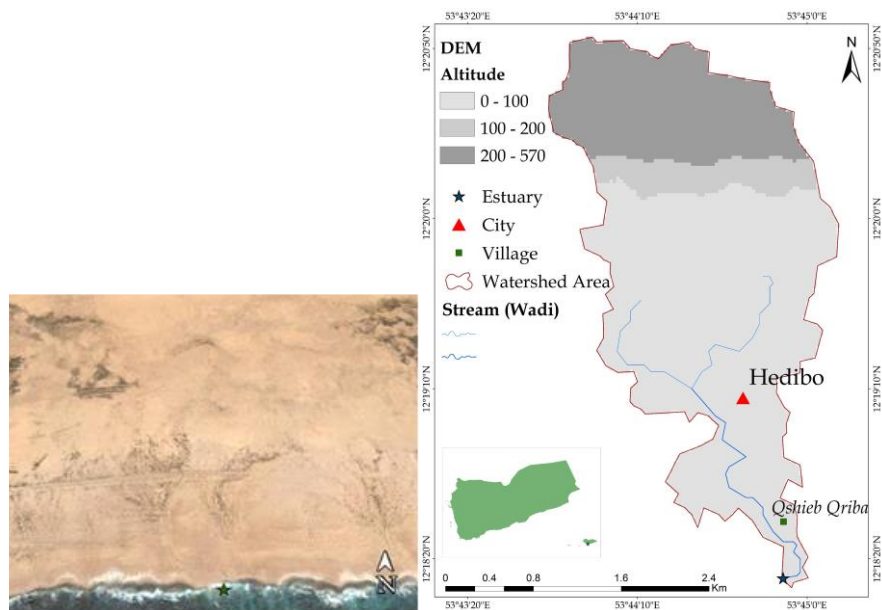


Figure 435. Oro-hydrographic Characteristics of Watershed: Aliehan, Socotra(right)& The satellite view of Qshieb Qriba Estuary (2004) (left).

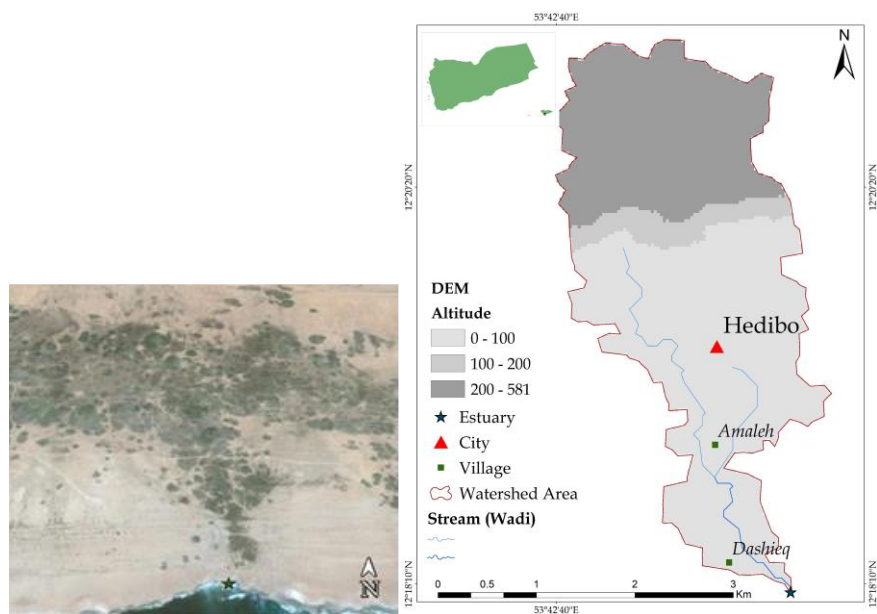


Figure 436. Oro-hydrographic Characteristics of Watershed: Amaleg, Socotra(right)& The satellite view of Dashieq Estuary (2014) (left).

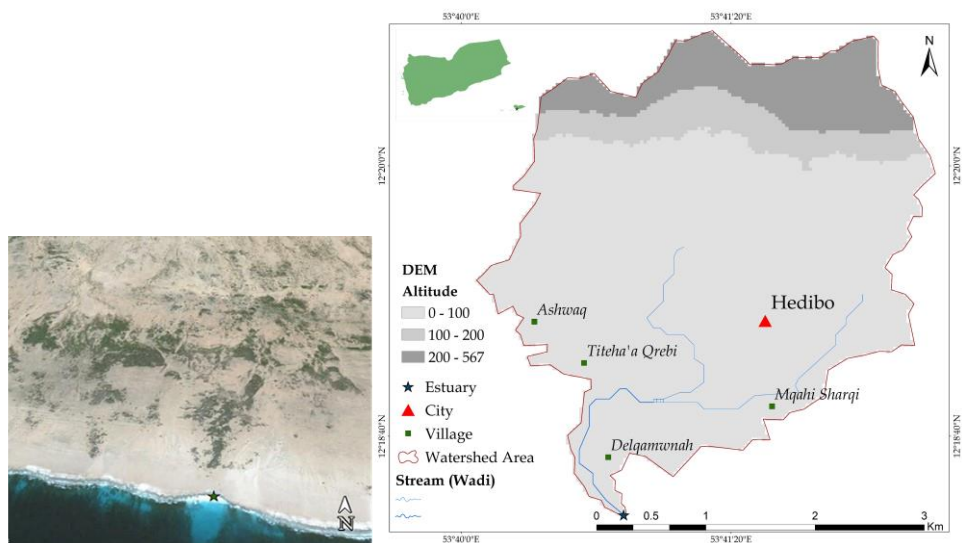


Figure 437. Oro-hydrographic Characteristics of Watershed: Sharhen, Socotra(right)& The satellite view of Delqamwnah Estuary (2016) (left).

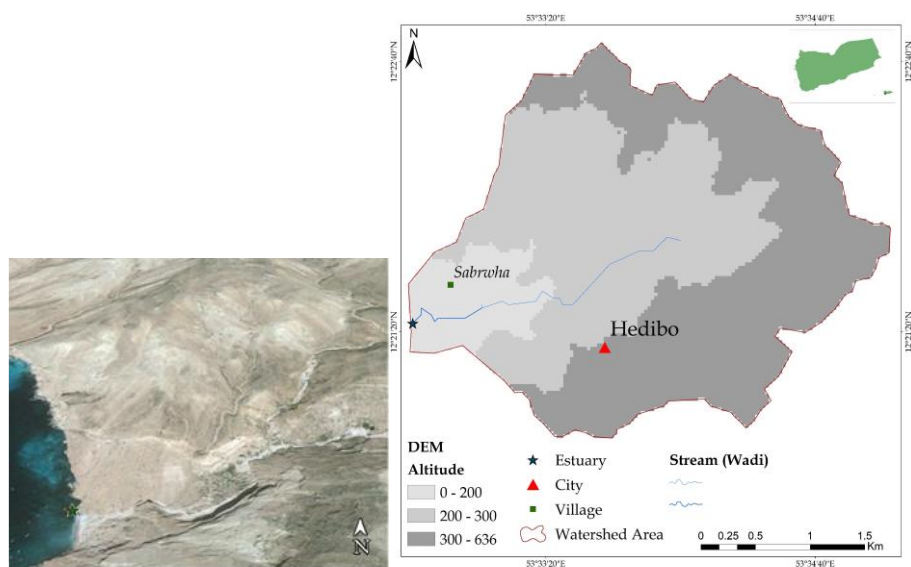


Figure 438. Oro-hydrographic Characteristics of Watershed: Siaqw, Socotra(right)& The satellite view of Sabrwha Estuary (2014) (left).

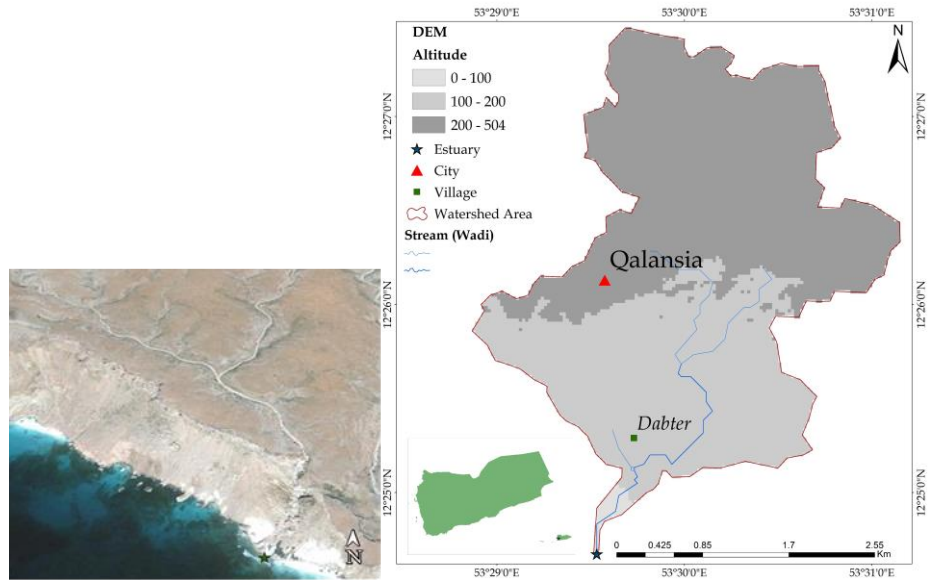


Figure 439. Oro-hydrographic Characteristics of Watershed: Dabter, Socotra(right)& The satellite view of Qarzen Estuary (2014) (left).

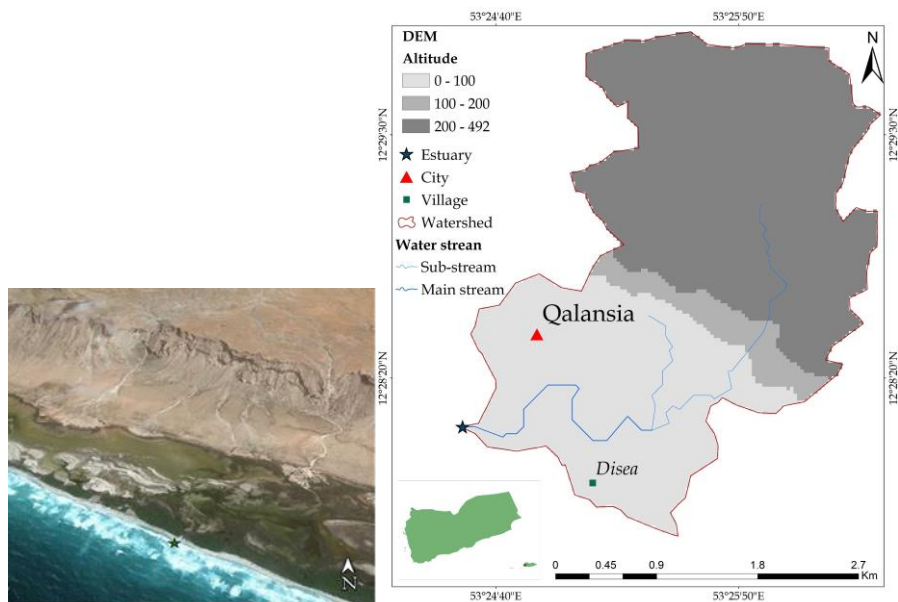


Figure 440. Oro-hydrographic Characteristics of Watershed: Laquer, Socotra(right)& The satellite view of Disea Estuary (2010) (left).

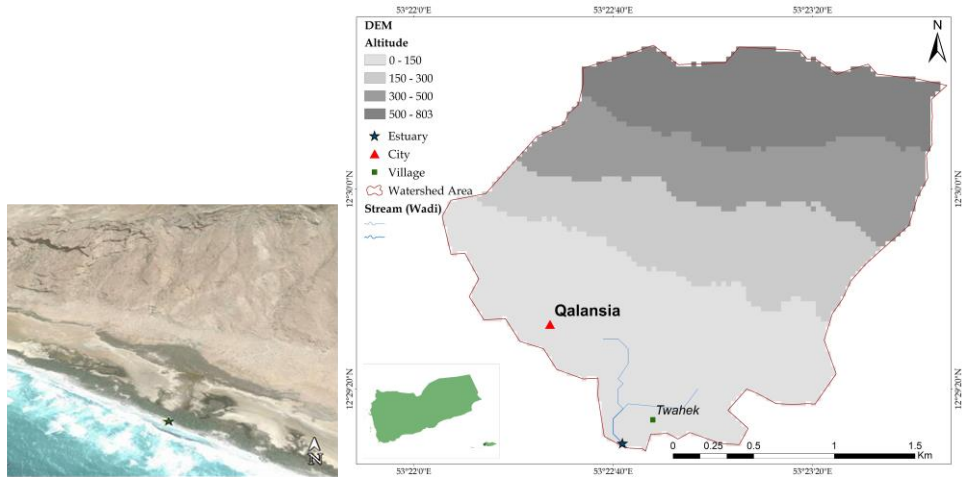


Figure 441. Oro-hydrographic Characteristics of Watershed: Kaleha, Socotra(right)& The satellite view of Twahek Estuary (2004) (left).

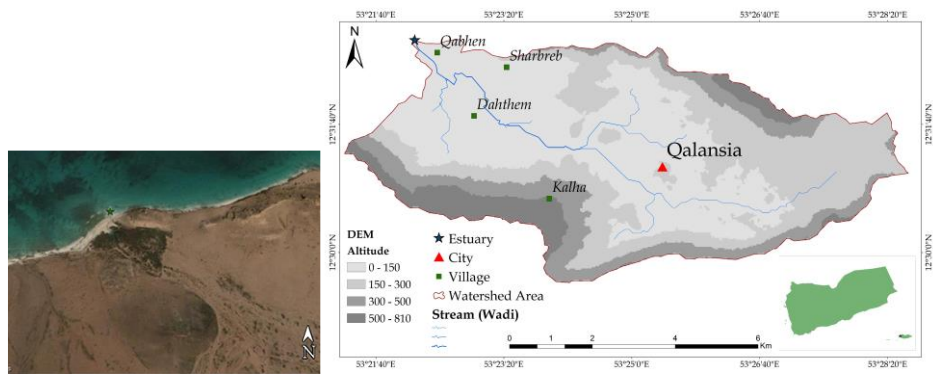


Figure 442. Oro-hydrographic Characteristics of Dahtem Watershed: Dahtem, Socotra(right)& The satellite view of Qabhen Estuary (2014) (left).

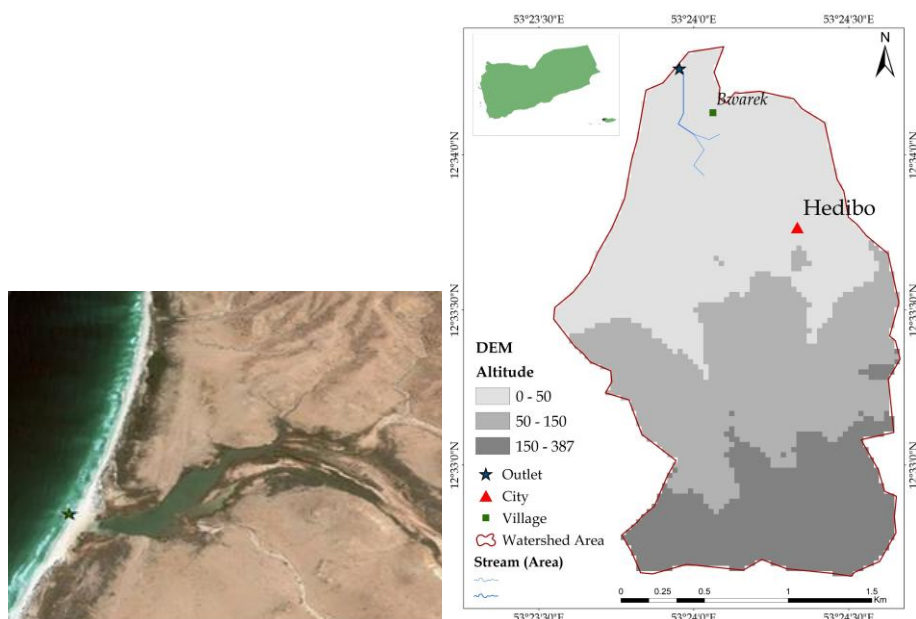


Figure 443. Oro-hydrographic Characteristics of Watershed: Mesak, Socotra(right)& The satellite view of Bwarek Estuary (2014) (left).

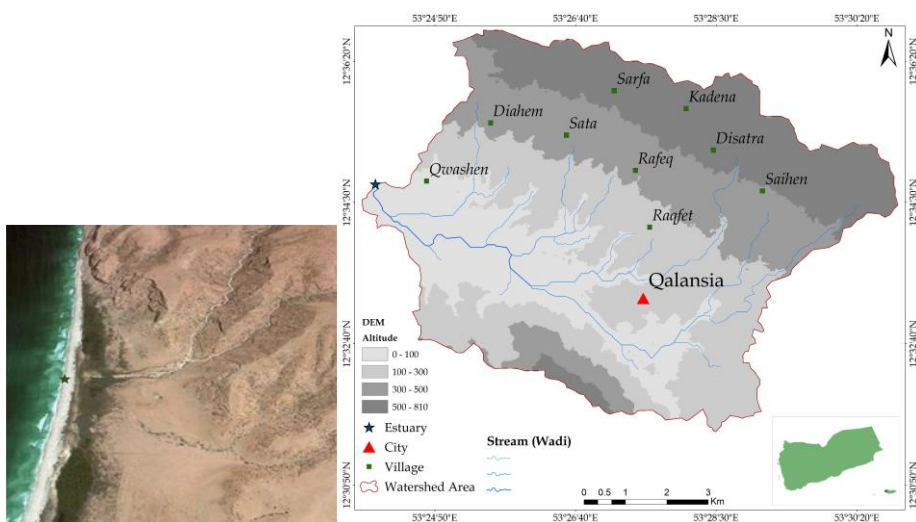


Figure 444. Oro-hydrographic Characteristics of Watershed: Qwashen, Socotra(right)& The satellite view of Qwashen Estuary (2014) (left).

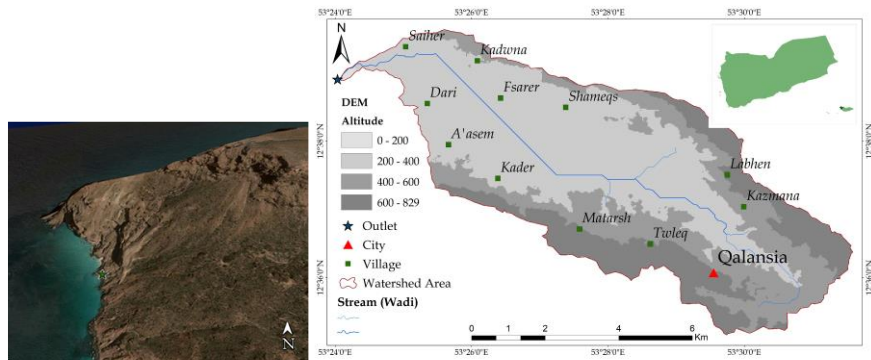


Figure 445. Oro-hydrographic Characteristics of Watershed: Qader, Socotra(right)& The satellite view of Saiher Estuary (2014) (left).

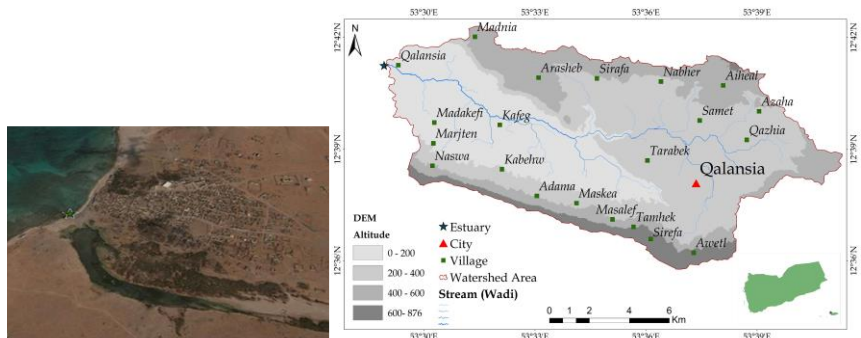


Figure 446. Oro-hydrographic Characteristics of Watershed: Haheh, Socotra(right)& The satellite view of Qalansia Estuary (2016) (left).

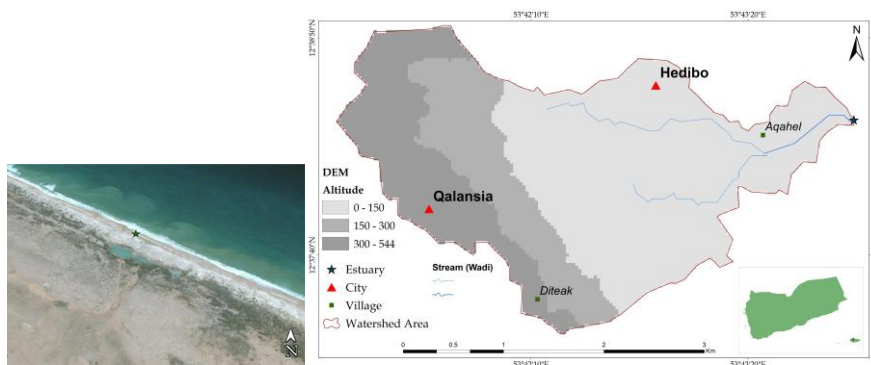


Figure 447. Oro-hydrographic Characteristics of Watershed: Mashreb, Socotra(right)& The satellite view of Aqahel Estuary (2014) (left).

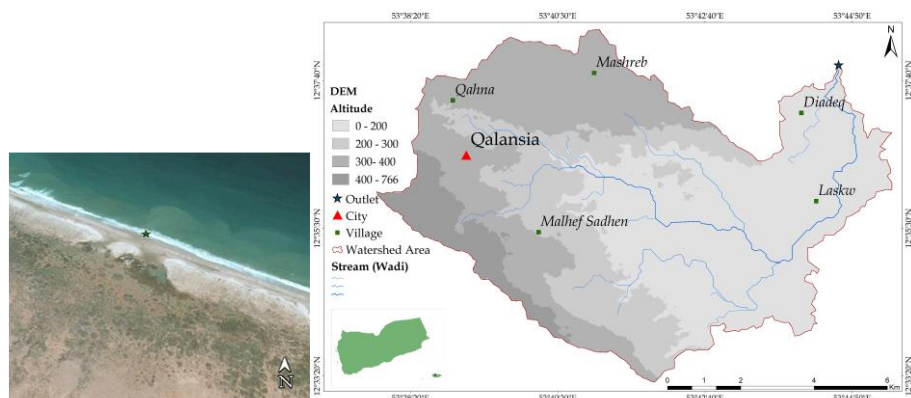


Figure 448. Oro-hydrographic Characteristics of Watershed: Atrwar, Socotra(right)& The satellite view of Diadeq Estuary (2014) (left).

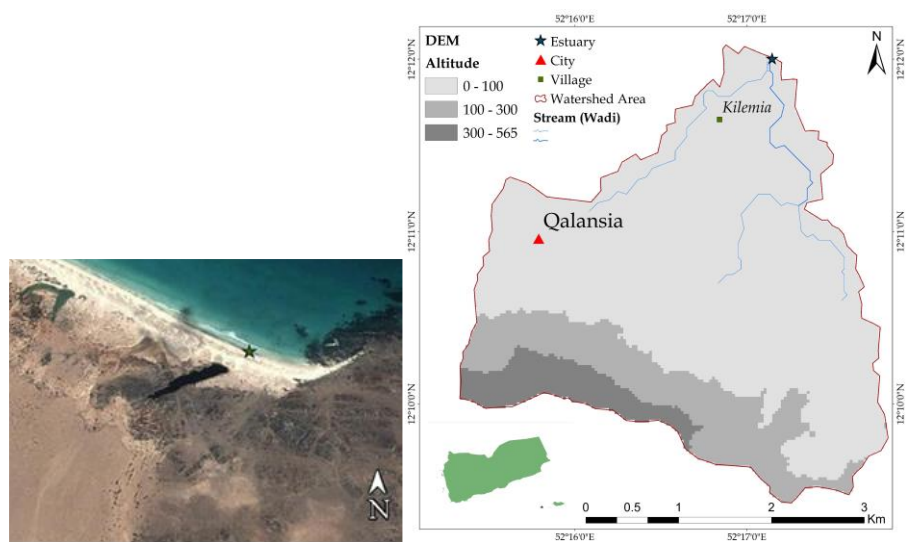


Figure 449. Oro-hydrographic Characteristics of Watershed: Saleh, Socotra(right)& The satellite view of Kilemia Estuary (2011) (left).

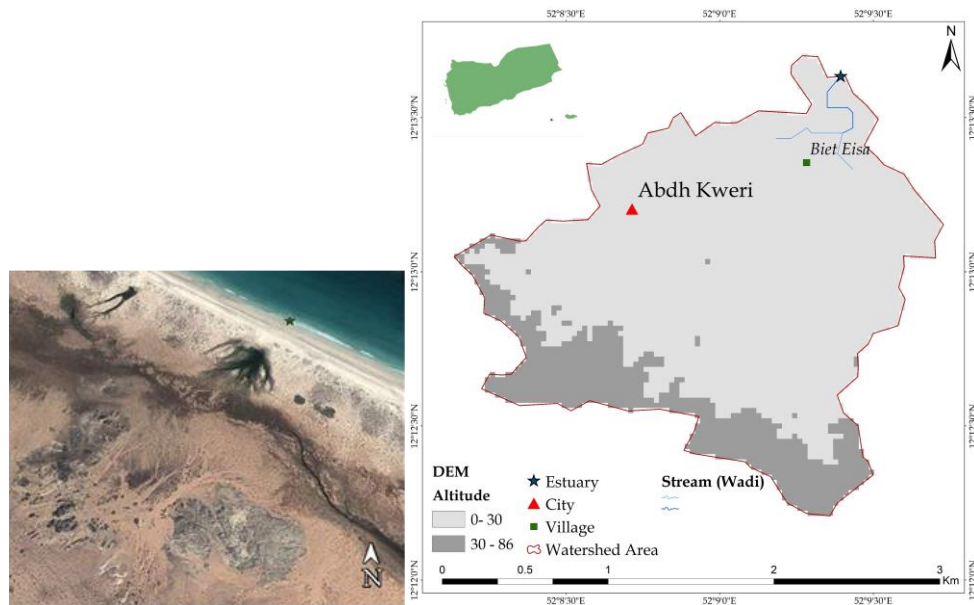


Figure 450. Oro-hydrographic Characteristics of Watershed: Alalia, Socotra(right)& The satellite view of Biet Eisa Estuary (2011) (left).

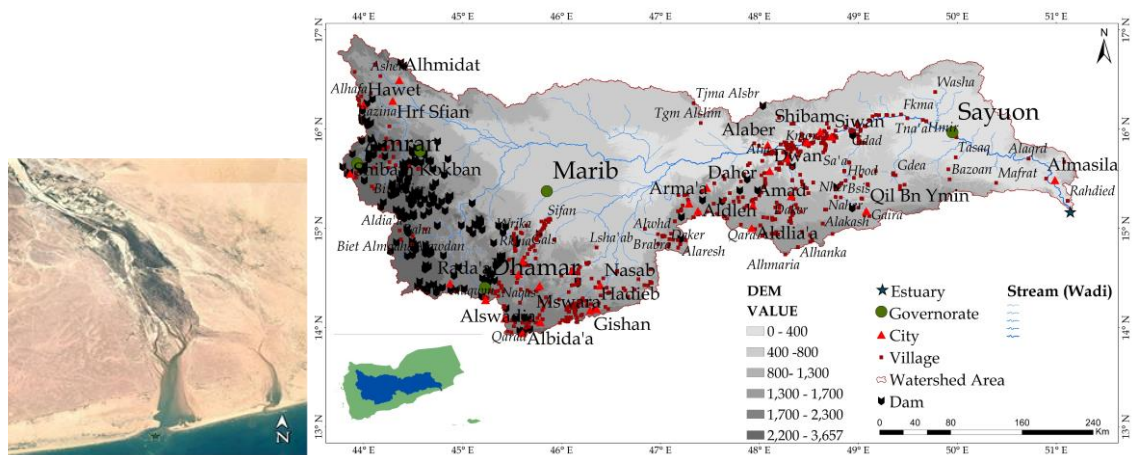


Figure 451. Oro-hydrographic Characteristics of Watershed: Hadramawt, Hadramawt(right)& The satellite view of Rahdied Estuary (2011) (left).

APPENDIX 2: FIGURES 2: ANNUAL AVERAGE PRECIPITATIONS (1981-2014)

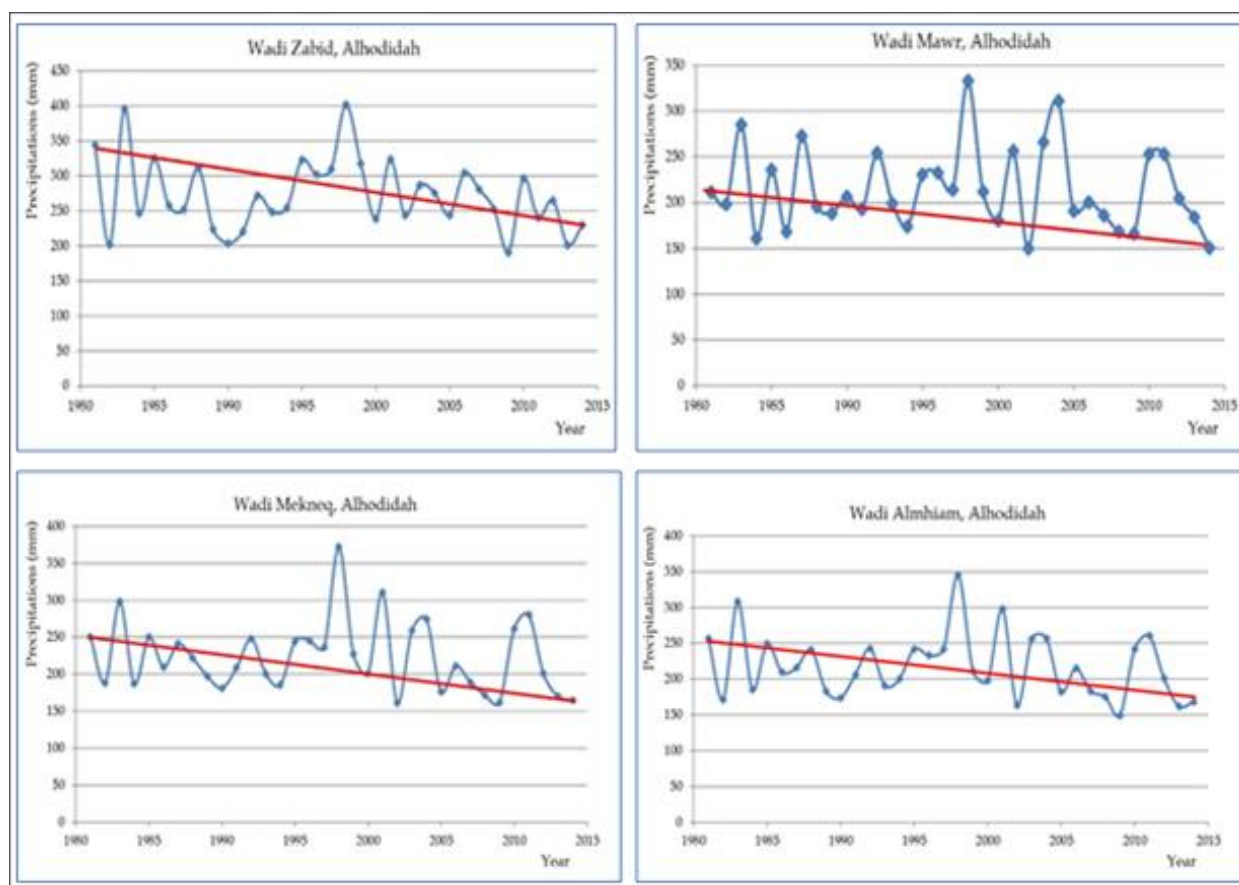


Figure1: Rainfall trend in Yemen: four examples of annual average precipitations (1981-2014) in Red Sea watersheds.

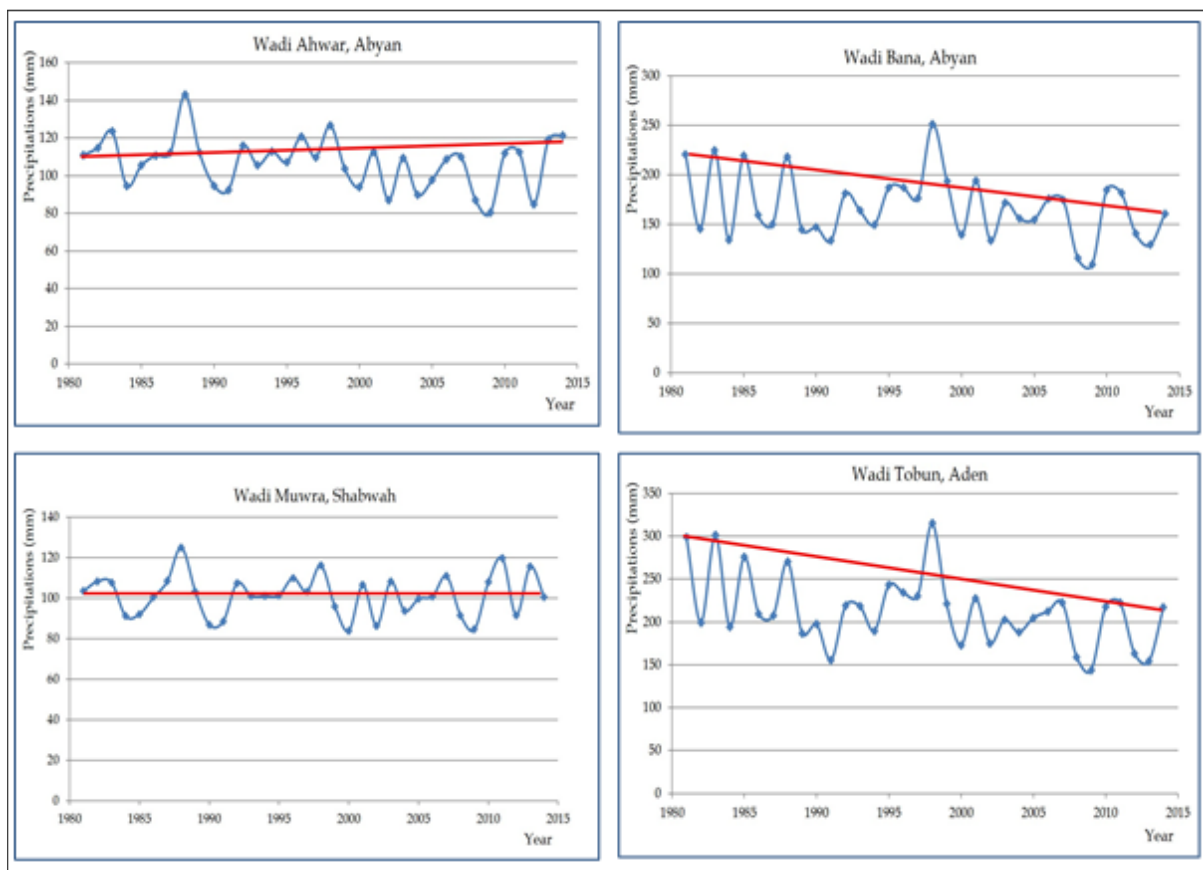


Figure 2 : Rainfall trend in Yemen: four examples of annual average precipitations (1981-2014) in Gulf of Aden watersheds.

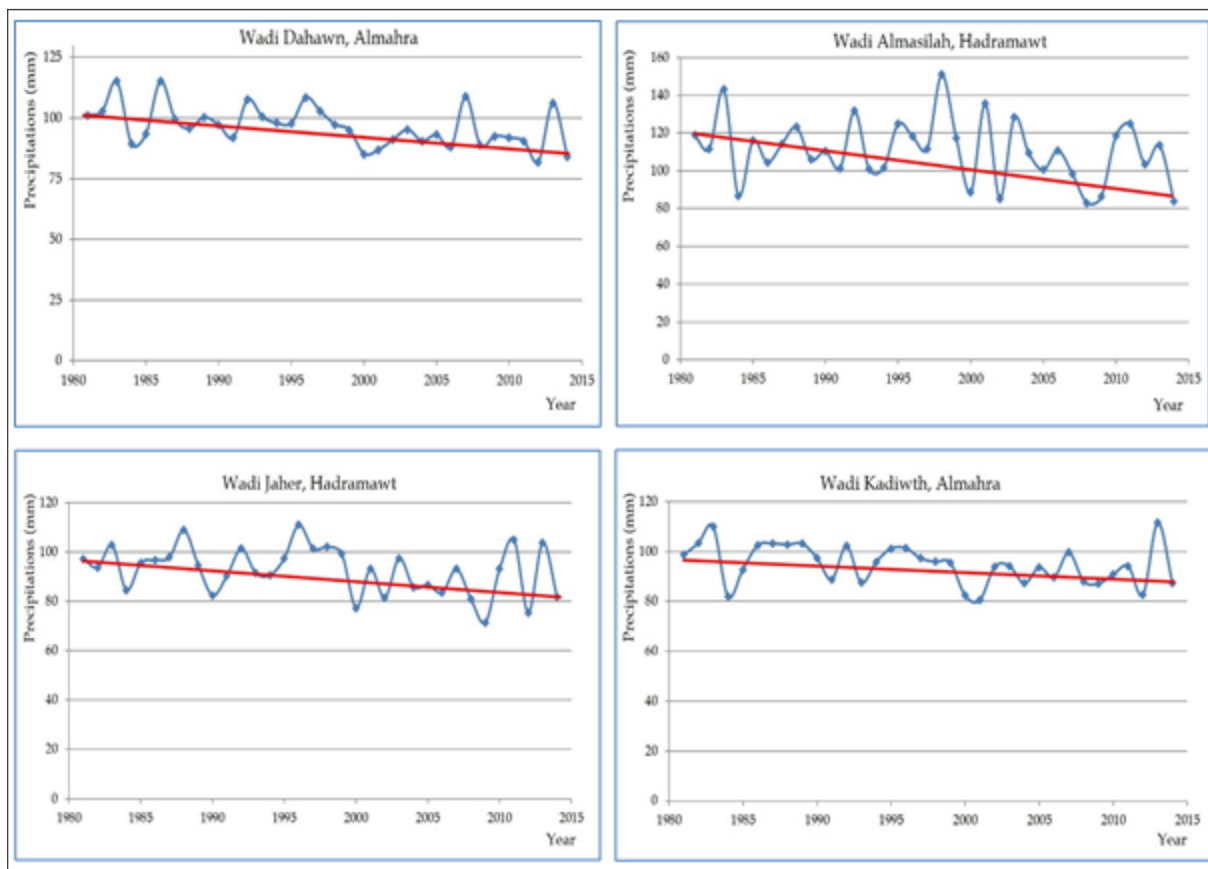


Figure 3 : Rainfall trend in Yemen: four examples of annual average precipitations (1981-2014) in Arabian Sea watersheds

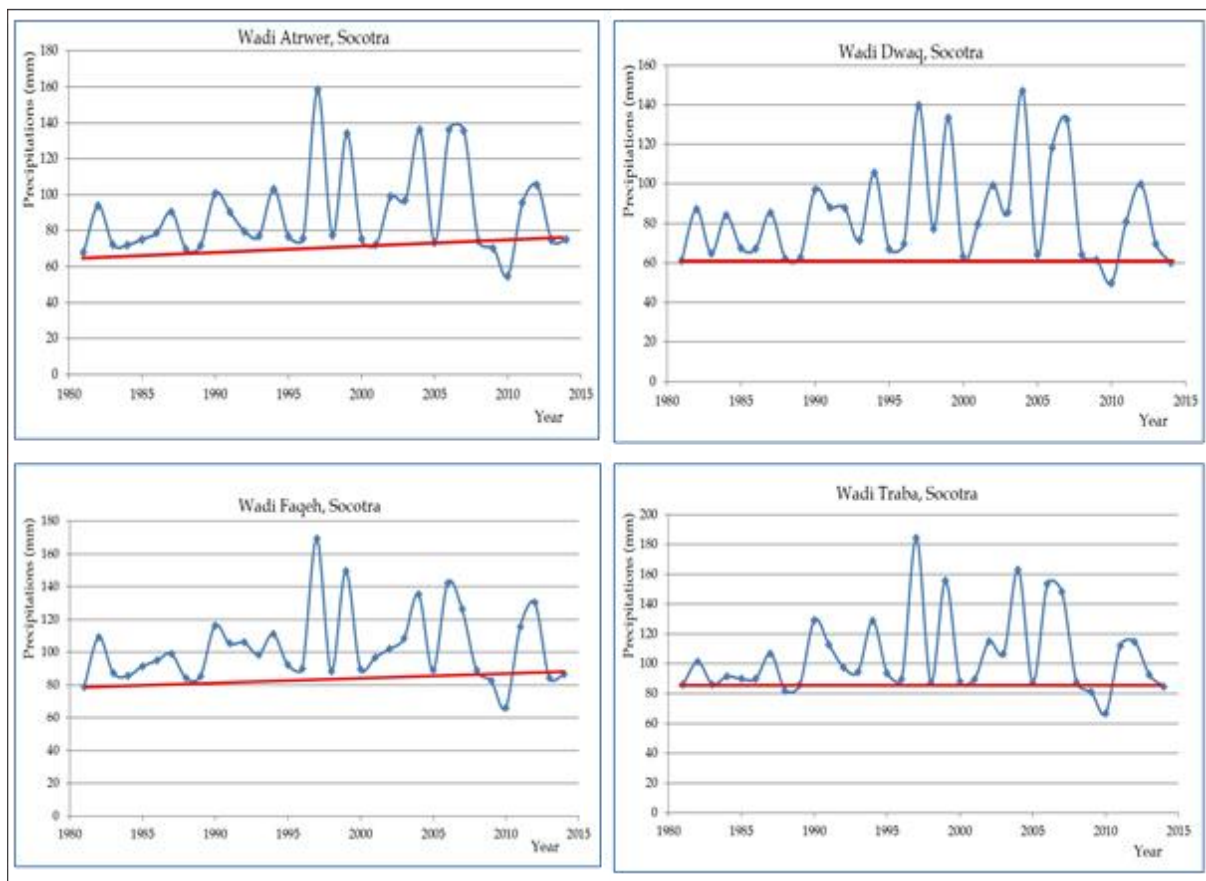


Figure 4 : Rainfall trend in Yemen: four examples of annual average precipitations (1981-2014) in Socotra watersheds.

APPENDIX 3: TABLES1: YEMEN ESTUARINE WETLANDS (NAME AND LOCATION)

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
1	Alkokbia, Bajel, Alhodidah	Almhiam	14.8522216	42.9419024
2	Alshma, Bit Alfquih, Alhodidah	Remaa	14.2472657	43.0603275
3	Almhdl, Zabid, Alhodidah	Zabid	14.0467596	43.1202468
4	Alkoka, Alkoka, Alhodidah	Nakla	13.8103219	43.2395172
5	His Salem, Almacha, Ta'iz	Albirek	13.6156442	43.2866922
6	Yaketl, Almacha, Ta'iz	Hadirma	13.4587096	43.2556993
7	Almocha, Almacha, Ta'iz	Almjesh	13.3067978	43.2400405
8	Aldwash, Dabab, Ta'iz	Kanaia	13.0965296	43.3331645
9	Almzikia, Almtarba, Lahej	Harim	12.7434110	43.6116958
10	Albdih Alasfel, Almtarba, Lahej	Hihan	12.6202778	44.0841427
11	Almrka, Almtarba, Lahej	Girein	12.6532649	44.2482722
12	Aljhar, Almtarba, Lahej	Om Haith	12.6782757	44.4228459
13	Alheswa, Almsora, Aden	Tuban	12.8306023	44.9627778
14	Kwad Hidra, Kanfer, Abyan	Bana	13.0687912	45.3942644
15	Sakn Algrieh, Kanfer, Abyan	Hassan	13.1512262	45.4682024
16	Alkdah, Ahwar, Abyan	Ahwar	13.4411875	46.7193680
17	Hsen Heil Hesien, Radwam, Shabwah	Kaier	13.6681819	47.4095202
18	Albdoa, Radwam, Shabwah	Muwra	13.9799007	47.8666667
19	Frejwh, Radwam, Shabwah	Alhawil	14.0252589	48.1307444
20	Alshefa, Barom, Hadramawt	Jaher	14.0472086	48.6644580
21	Hadira, Qil Bawazier, Hadramawt	Harirah	14.6672222	49.4160892
22	Malafa, Alshehier, Hadramawt	Aref	14.7619968	49.6308333
23	Ber Alraqed, Alshehier, Hadramawt	Kared	14.7854276	49.7045724
24	Aldiaq, Alraida Wa Qasia, Hadramawt	Maber	14.9424160	50.3399160
25	Alhsoh, Alraida Wa Qasia, Hadramawt	Sarf Haiwm	15.0305556	50.5042709
26	Almadei, Alraida Wa Qasia, Hadramawt	Almadei	15.0651741	50.6419444
27	Kashen, Qashen, Almahra	Aidnwet	15.4167993	51.6857007
28	Tjma Krkoet, Hswein, Almahra	Kwao	15.5062218	51.8926107
29	Hardnawt, Hswein, Almahra	Shahin	15.5931161	52.1312679
30	Yarwab, Alghaydah, Almahra	Raiwt	15.9207298	52.1657298
31	Tjma Fahwri, Alghaydah, Almahra	Radhayt	16.0485664	52.1775000
32	Qatar, Alghaydah, Almahra	Dahawn	16.2066853	52.2321079
33	Yarub, Alghaydah, Almahra	Kadiwth	16.3575036	52.3719409
34	Alfetk, Alghaydah, Almahra	Shafwet	16.5122849	52.6917653
35	Hawf, Alghaydah, Almahra	Shihan	16.5674838	52.8371238
36	Midi, Midi, Hajah	Hared	16.3559976	42.7900966
37	Wadi Jabel, Midi, Hajah	Hairan	16.2090008	42.8169914
38	Alkasar, Midi, Hajah	Alsheaba	16.1721139	42.8204500
39	Bni Hathan, Midi, Hajah	Habel	16.1213889	42.8242647
40	Alhrja, Midi, Hajah	Aljeser	16.0208333	42.8348071
41	Bhies, Midi, Hajah	Alqwer	15.9897081	42.8266808
42	Alharja, Abes, Hajah	Alhbab	15.9032658	42.8178453

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
43	Altnabika, Midi, Hajah	Rahban	16.3665844	42.7786111
44	Bni Hathan, Midi, Hajah	Aljalhwhf	16.0607718	42.8368829
45	Alharja, Abes, Hajah	Alqwar	15.9241171	42.8185120
46	Bni Keba, Alluhayah, Alhodidah	Aeian	15.8701128	42.8109983
47	Kadmt Dahdah, Alluhayah, Alhodidah	Abaas	15.7880348	42.7516095
48	Bni Alhareb, Alluhayah, Alhodidah	Jabel Almelh	15.6808333	42.7080556
49	Bni Alkal, Alluhayah, Alhodidah	Mawr	15.8112715	42.7687285
50	Alqarisha, Alluhayah, Alhodidah	Alflw	15.6538889	42.6978226
51	Almdawma, Alluhayah, Alhodidah	Alarma	15.5972777	42.7231112
52	Aldrsia, Alluhayah, Alhodidah	Rba Aldoes	15.5419444	42.7302778
53	Bni Jabia, Alluhayah, Alhodidah	Alslmani	15.5263367	42.7459378
54	Aljalial, Almnira, Alhodidah	Hawash	15.4108333	42.7704613
55	Ibn Abas, Almnira, Alhodidah	Hateb	15.3622222	42.7923747
56	Albhlol, Almnira, Alhodidah	Mekneq	15.2874969	42.8082367
57	Jabel Kima, Almnira, Alhodidah	Kasher	15.2752414	42.8084180
58	Ra's Eisa, Alsleif, Alhodidah	Alzhifi	15.2008333	42.7489098
59	Alsleif, Alsleif, Alhodidah	Alqaria	15.2780556	42.6856097
60	Alshala, Almnira, Alhodidah	Alqhim	15.2260587	42.7738103
61	Alaqil Alkir, Almnira, Alhodidah	Aljrab	15.1640208	42.8304826
62	Algtaher, Almnira, Alhodidah	Surdud	15.1612027	42.8373138
63	Aljreb, Almnira, Alhodidah	Shwail	15.1399605	42.8575663
64	Urj, Bajel, Alhodidah	Alawrth	15.1227779	42.8658458
65	Aliqien, Bajel, Alhodidah	Esam	15.1057899	42.8708182
66	Almshies, Bajel, Alhodidah	Dayan	15.0355556	42.8734301
67	Almhata Almr, Bajel, Alhodidah	Alterba	15.0016667	42.8915164
68	Alhmra, Bajel, Alhodidah	Nawia	14.9932019	42.9040352
69	Algnidia, Bajel, Alhodidah	Almhara	14.9594085	42.9308693
70	Jabanah, Bajel, Alhodidah	Almekter	14.9302719	42.9334809
71	Dir Isa'a, Bajel, Alhodidah	Aldnmia	14.9255556	42.9414836
72	Alhodidah City, Alhodidah	Almrawa	14.8210252	42.9379697
73	Alrbsa, Alhodidah City, Alhodidah	Bni Zawia	14.7580271	42.9534230
74	Alkimnia, Alhodidah, Alhodidah	Siham	14.7521242	42.9547222
75	Rihan, Aldrihmi, Alhodidah	Almnaji	14.6747222	42.9695879
76	Deknan, Aldrihmi, Alhodidah	Reman	14.6141667	42.9863049
77	Alhaed, Aldrihmi, Alhodidah	Naba	14.6097222	42.9895011
78	Altaef, Aldrihmi, Alhodidah	Alharabyah	14.5308333	43.0139738
79	Alkwitri, Aldrihmi, Alhodidah	Baqeira	14.4977778	43.0040265
80	Alkoitri, BitAlfqi, Alhodidah	Almzahr	14.4405556	43.0178785
81	Alhbali, BitAlfqi, Alhodidah	Alrwas	14.3383333	43.0316667
82	Alkwaem, BitAlfqi, Alhodidah	Kwaia	14.3140884	43.0375783
83	Alahneb, BitAlfqi, Alhodidah	Alzliae	14.2586632	43.0549681
84	Alshama, BitAlfqi, Alhodidah	Alaqem	14.2039894	43.0762884
85	Almjilas, Zabid, Alhodidah	Albliha	14.1697545	43.0829134
86	Mho Alklief, Zabid, Alhodidah	Altehita	14.1606280	43.0864613
87	Almadmen, Zabid, Alhodidah	Alkwli	14.1366207	43.0899540
88	Alknazea, Zabid, Alhodidah	Almshwer	14.0607011	43.1100000
89	Almjahda, Zabid, Alhodidah	Almtina	14.0198884	43.1360138

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
90	Alroan, Zabid, Alhodidah	Alfwakeh	13.9561111	43.1614135
91	Alawireq, Zabid, Alhodidah	Albarwadi	13.9508311	43.1658311
92	Alhima, Zabid, Alhodidah	Albajeri	13.9172164	43.2016725
93	Alalili, Alkoka, Alhodidah	Frtwet	13.8923976	43.2254532
94	Tour Alnhari, Alkoka, Alhodidah	Almasla	13.8824446	43.2343333
95	Qtaba, Alkoka, Alhodidah	Jahber	13.8696257	43.2368354
96	Abo Zaher, Alkoka, Alhodidah	Alkraba	13.8417254	43.2345032
97	Almahrek, Alkoka, Alhodidah	Alkokah	13.8023307	43.2437399
98	Alkaliba, Alkoka, Alhodidah	Alamesi	13.7503692	43.2628227
99	Almoshj, Alkoka, Alhodidah	Erfan	13.7150000	43.2777523
100	Alroias, Almoca, Ta'iz	Rasyan	13.5204602	43.2645398
101	Yaktek, Almoca, Ta'iz	Albleli	13.4230456	43.2523281
102	Almoca, Almoca, Ta'iz	Almjash	13.3280163	43.2433333
103	Alkdha, Dhabab, Ta'iz	Alrwa'a	13.1181601	43.3132178
104	Alsimal, Dhabab, Ta'iz	Alsnma	13.0047854	43.3842299
105	Jabel Alameri, Dhabab, Ta'iz	Hnishia	12.9753651	43.4031429
106	Dhabab, Dhabab, Ta'iz	Almbdel	12.9382979	43.4188534
107	Alaqa'a, Dhabab, Ta'iz	Alhjaria	12.8889068	43.4418620
108	Am Sahela, Dhabab, Ta'iz	Threk	12.8690964	43.4560777
109	Karia, Dhabab, Ta'iz	Alkdamia	12.7925876	43.4847519
110	Alsoidi, Dhabab, Ta'iz	Almtrh	12.7493176	43.4740109
111	Bni Alhkem, Dhabab, Ta'iz	Triha	12.7169617	43.5502605
112	Alsokia, Almtarba, Lahej	Alhgigia	12.7368258	43.5703964
113	Alkroab, Almtarba, Lahej	Alnaiba	12.7254380	43.6771047
114	Alwadia, Almtarba, Lahej	Alhrim	12.7149642	43.7028988
115	His Eisa, Almtarba, Lahej	Algrika	12.7129435	43.7191667
116	Alhjaf, Almtarba, Lahej	Almdhma	12.7078121	43.7365069
117	Almdahma, Almtarba, Lahej	Alarah	12.7014650	43.7506568
118	Alatara, Almtarba, Lahej	Amqsem	12.6957113	43.7686111
119	Alkwha, Almtarba, Lahej	Alatarm	12.6924545	43.7828151
120	Dhari, Almtarba, Lahej	Alkwha	12.6906254	43.7994444
121	Aladidya, Almtarba, Lahej	Amkwha	12.6739568	43.8309213
122	Alhjiema, Almtarba, Lahej	Aladdia	12.6570729	43.8642951
123	Aljebat, Almtarba, Lahej	Alhdif	12.6558333	43.8740763
124	Alara, Almtarba, Lahej	Am Alras	12.6466667	43.8994402
125	Aldar, Almtarba, Lahej	Altaif	12.6445214	43.9105819
126	Jdima, Almtarba, Lahej	Trbeha	12.6363889	43.9219711
127	Alsbeel, Almtarba, Lahej	Shahbo	12.6005002	43.9809441
128	Bear Hamra, Almtarba, Lahej	Arafh	12.6040716	44.0036111
129	Hesin Nores, Almtarba, Lahej	Thmnan	12.6077901	44.0524877
130	Tjma Bdo-Almhaniq, Almtarba, Lahej	Heigan	12.6310935	44.1027344
131	Kor Alhmira, Almtarba, Lahej	Om Sagna	12.6564624	44.1486111
132	Almarka, Almtarba, Lahej	Hajfa	12.6500498	44.1720762
133	Almbdoh, Almtarba, Lahej	Almahd	13.0163770	45.2032486
134	Alhmra, Almtarba, Lahej	Alrehab	12.6472062	44.1837460
135	Shaqra, Almtarba, Lahej	Nkiba	12.6301351	44.2087538
136	Alhjar, Almtarba, Lahej	Shahr	12.6531452	44.3249103

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
137	Adaqa, , Almtarba, Lahej	Adiem	12.6686099	44.3577790
138	Alkoifi, Tor Albaha, Lahej	Alqria	12.7900425	44.5231198
139	Albstan, Tor Albaha, Lahej	Maden	12.8038990	44.5419343
140	Almrida, Tor Albaha, Lahej	Om Alsier	12.8122085	44.5660300
141	Tjma Badwan, Tor Albaha, Lahej	Altien	12.8124205	44.6496164
142	Almaswdia, Tor Albaha, Lahej	Alrja'a	12.8076179	44.6662205
143	Alzyadi, Albwryqa, Aden	Kazen	12.8058333	44.6749316
144	Algradwf, Albwryqa, Aden	Almsewdia	12.7863905	44.7066667
145	Ra's Amran, Albwryqa, Aden	Om Rjam	12.7664862	44.7406529
146	Alzyadi, Albwryqa, Aden	Albaha	12.7758333	44.8004714
147	Daies, Albwryqa, Aden	Alsheibi	12.7678491	44.8157522
148	Alsqaq, Albwryqa, Aden	Almsan	12.7995891	44.8541667
149	Mdint Alsheb, Albwryqa, Aden	Alhwa	12.7970324	44.8831435
150	Bir Ahmed, Albwryqa, Aden	Abrein	12.8203895	44.9122967
151	Jawla, Albwryqa, Aden	Jawla	12.8289157	44.9322222
152	Almnsora, Almnsora, Aden	Shreia	12.8498073	45.0146291
153	Mhtat Alshata, Kanfer, Abyan	Almjhla	12.8825885	45.0646337
154	Mahdet Alelm, Kanfer, Abyan	Almnaser	12.9572888	45.1041001
155	Almabdw, Kanfer, Abyan	Almlah	13.0041667	45.1686881
156	Jajla, Kanfer, Abyan	Om Shybia	13.0302955	45.2357171
157	Amsalib, Kanfer, Abyan	Amsalib	13.0374379	45.2650000
158	Afeini, Kanfer, Abyan	Alkoi	13.0466991	45.3252778
159	Sakn Alwadi, Kanfer, Abyan	Alnshea	13.0586615	45.3797475
160	Almrafd, Kanfer, Abyan	Alhwani	13.1387735	45.4601154
161	Alshiq Salem, Kanfer, Abyan	Alasla	13.1752778	45.4810165
162	Aldrba, Kanfer, Abyan	Zanjbar	13.2397589	45.5316300
163	Alqria, Kanfer, Abyan	Timea	13.2539268	45.5455176
164	Salem, Kanfer, Abyan	Dahi	13.2738562	45.5639433
165	Thamhen, Kanfer, Abyan	Batha	13.2879025	45.5809637
166	Mrieb, Kanfer, Abyan	Thaelan	13.3039573	45.5999658
167	Alfara'a, Kanfer, Abyan	Karef	13.3452003	45.6491246
168	Alkraq, Kanfer, Abyan	Mathwan	13.3512419	45.6641667
169	Athbia, Kanfer, Abyan	Alkraq	13.3553283	45.6927778
170	Shoqra, Kanfer, Abyan	Gwada	13.3594222	45.7180778
171	Saqam, Kanfer, Abyan	Ahmed	13.3680067	45.7397222
172	Mraran, Kanfer, Abyan	Alarqwb	13.3703810	45.7505556
173	Alqarsh, Kanfer, Abyan	Alkersh	13.3734738	45.7722222
174	Alqarib, Kanfer, Abyan	Saqnid	13.3779989	45.7828786
175	Jaear, Kanfer, Abyan	Almshreq	13.3802155	45.7893523
176	Saqied, Kanfer, Abyan	Alkbaia	13.3854468	45.8098168
177	Alfth, Kanfer, Abyan	Ghein	13.3871153	45.8214744
178	Alfriqa, Kanfer, Abyan	Alhjaj	13.3932810	45.8514412
179	Aiad Alaries, Kanfer, Abyan	Amaeda	13.4011933	45.9147222
180	Alsria, Kanfer, Abyan	Alhmsha	13.4065019	45.9286111
181	Jaiba, Kanfer, Abyan	Zarha	13.4094711	45.9541911
182	Metab, Kanfer, Abyan	Metab	13.4118586	45.9753350
183	Masel, Kanfer, Abyan	Meska'a	13.4175000	45.9929033

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
184	Msaga, Kanfer, Abyan	Aran	13.4198842	46.0001158
185	Msaehla, Kanfer, Abyan	Saeida	13.4206305	46.0386111
186	Alaber, Kanfer, Abyan	Jaear	13.4169639	46.0621426
187	Almqibra, Kanfer, Abyan	Alsnief	13.4186158	46.0947222
188	Bqisha, Kanfer, Abyan	Alnsil	13.4185553	46.1069444
189	Kor Kader, Kanfer, Abyan	Hawel	13.4235376	46.1648856
190	Alkber, Kanfer, Abyan	Qanfel	13.4260910	46.1779605
191	Amesa, Kanfer, Abyan	Tager	13.4299916	46.2143574
192	Hatieb, Kanfer, Abyan	Hatieb	13.4315006	46.2192218
193	Atef Almra'a, Kanfer, Abyan	Sabia	13.4332320	46.2588889
194	Hiwad, Kanfer, Abyan	latef	13.4323121	46.2638889
195	Tahoka, Kanfer, Abyan	Alhaqil	13.4326823	46.2752778
196	Alataf, Kanfer, Abyan	Almehd	13.4247076	46.3155556
197	Almrwan, Kanfer, Abyan	Mileh	13.4228076	46.3287236
198	Qawia, Ahwar, Abyan	Seari	13.4181732	46.3877718
199	Lawel, Ahwar, Abyan	Qawia	13.4199994	46.4258327
200	Algwfa, Ahwar, Abyan	Kwera	13.4125000	46.4333333
201	Yreia, Ahwar, Abyan	Sabia	13.4113333	46.4520000
202	Kert Alrosa, Ahwar, Abyan	Teaba	13.4171787	46.4841667
203	Tjma Alrahia, Ahwar, Abyan	Maseb	13.4217169	46.5347222
204	Tjma Maseb, Ahwar, Abyan	Alrmah	13.4296820	46.5577778
205	Dhr Almkila, Ahwar, Abyan	Alrasas	13.4430095	46.5936634
206	Sakn Alrbie, Ahwar, Abyan	Alrmah	13.4469097	46.6311459
207	Alshrwa, Ahwar, Abyan	Alkreib	13.4645784	46.7596920
208	Said Ahmed, Ahwar, Abyan	Almqfsh	13.4899743	46.8128035
209	Ber Fadhl, Ahwar, Abyan	Aara	13.5219444	46.8846976
210	Qrit Almlha, Ahwar, Abyan	Baier	13.5436517	46.9152778
211	Ahel Eisha, Ahwar, Abyan	Alshaqa	13.5535589	46.9673092
212	Yabar, Ahwar, Abyan	Manea	13.5525804	46.9750334
213	Hsen Baleid, Ahwar, Abyan	Moasea	13.5624876	47.0216667
214	Tjma Rabdh, Ahwar, Abyan	Alsedra	13.5662110	47.0374945
215	Alsedra, Ahwar, Abyan	Mzareb	13.5703289	47.0598483
216	Yrieh, Ahwar, Abyan	Mreid	13.5742987	47.0862568
217	Almashier, Ahwar, Abyan	Zabta	13.5837704	47.1027002
218	Tjma Rabta, Ahwar, Abyan	Almashier	13.5949326	47.1336111
219	Tjma Asfel, Ahwar, Abyan	Reda'a	13.5953701	47.1545989
220	Tjma Dahwam, Ahwar, Abyan	Radh	13.5994068	47.1713889
221	Tjma Rada, Ahwar, Abyan	Dahwma	13.6073142	47.2132413
222	Radwam, Radwam, Shabwah	Alhier	13.6096585	47.2331830
223	Sabseb, Radwam, Shabwah	Atar	13.6201059	47.2611331
224	Altnwam, Radwam, Shabwah	Rahab	13.6228224	47.2688443
225	Dmwara, Radwam, Shabwah	Algdami	13.6384452	47.3163330
226	Aljara, Radwam, Shabwah	Sheieb	13.6422164	47.3264206
227	Arafa, Radwam, Shabwah	Areqa	13.6449339	47.3411111
228	Jawla, Radwam, Shabwah	Lodia	13.6478059	47.3488889
229	Almhsier, Radwam, Shabwah	Keir	13.6523136	47.3816667
230	Hswen Hel Heseen, Radwam, Shabwah	Alaef	13.6825801	47.4286111

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
231	Alklila, Radwam, Shabwah	Alhnjra	13.6953125	47.4467163
232	Alhanjra, Radwam, Shabwah	Sana	13.7060871	47.4625240
233	Wadi Sana, Radwam, Shabwah	Alsheb	13.7366453	47.4951709
234	Mries, Radwam, Shabwah	Alrdaka	13.7625548	47.5250567
235	Hasned, Radwam, Shabwah	Mreis	13.7727778	47.5322260
236	Almazel Hora, Radwam, Shabwah	Hasned	13.7957625	47.5598755
237	Alswda, Radwam, Shabwah	Rahbah	13.8225506	47.5968939
238	Alkeb Alshreq, Radwam, Shabwah	Mdwar	13.8325742	47.6027035
239	Shaqeb Alnakla, Radwam, Shabwah	Almlila	13.8689986	47.6379459
240	Alkazan, Radwam, Shabwah	Alkazan	13.8705897	47.6401656
241	Alnaer, Radwam, Shabwah	Hada'a	13.8796129	47.6534426
242	Aljwal, Radwam, Shabwah	Algwal	13.8948658	47.6728430
243	Aljbilia, Radwam, Shabwah	Alhdiat	13.9275000	47.7756881
244	Almahrqa, Radwam, Shabwah	Hawra	13.9355062	47.8072222
245	Almajza, Radwam, Shabwah	Mora	13.9454905	47.8202603
246	Alswma, Radwam, Shabwah	Almjza	13.9567661	47.8322145
247	Alnshima, Radwam, Shabwah	Almkita	13.9899482	47.8693926
248	Almaftha, Radwam, Shabwah	Alsrha	14.0063889	47.8927778
249	Altaniq, Radwam, Shabwah	Awali	14.0430410	47.9504726
250	Aljwbri Alkmiri, Radwam, Shabwah	Algwiri	14.0583175	47.9941508
251	Rafad, Radwam, Shabwah	Alhwil	14.0468358	48.0763527
252	Aleatfa, Radwam, Shabwah	Almkamr	14.0103325	48.1537660
253	Barasi, Radwam, Shabwah	Alshjen	14.0032452	48.1658333
254	Jalah, Radwam, Shabwah	Glaea	13.9895334	48.2256445
255	Alhseini, Radwam, Shabwah	Alatf	13.9894444	48.2603990
256	Alshatr, Radwam, Shabwah	Qpara	13.9890039	48.2632995
257	Alkabt, Radwam, Shabwah	Alqepeth	14.0150764	48.3213472
258	Bi'r Ali, Radwam, Shabwah	Alawred	14.0264293	48.3419226
259	Bahjer, Radwam, Shabwah	Sheb Badrib	14.0247937	48.4152778
260	Alfarsh, Radwam, Shabwah	Alsefli	14.0248055	48.4347944
261	260 Alkiba, Radwam, Shabwah	Bin Alshikin	14.0174730	48.4479625
262	Aljawl, Radwam, Shabwah	Alfersh	14.0335645	48.5224803
263	Lahemad, Barwam, Hadramawt	Sahmda	14.0399983	48.5368036
264	Sharma, Barwam, Hadramawt	Sharma	14.0498695	48.6208956
265	Alshafa, Barwam, Hadramawt	Radfan	14.0511111	48.6954442
266	Jawl Alhna, Barwam, Hadramawt	Alhila	14.0666677	48.7146293
267	Radfan, Barwam, Hadramawt	Yebar	14.0852778	48.7328314
268	Tjma Alsila, Barwam, Hadramawt	Habad	14.1049484	48.7433333
269	Aljwal, Barwam, Hadramawt	Almabur	14.1505556	48.8045146
270	Qidet Albhish, Barwam, Hadramawt	Albardh	14.1602890	48.8119332
271	Alkber, Barwam, Hadramawt	Aldabr	14.1944517	48.8487392
272	Hashisa, Barwam, Hadramawt	Padwi	14.2468342	48.8733333
273	Rabab, Barwam, Hadramawt	Almahmdian	14.2519879	48.8844444
274	Haro, Barwam, Hadramawt	Haro	14.2717136	48.9241667
275	Mutera, Barwam, Hadramawt	Tjema	14.2966667	48.9320152
276	Thalwma, Barwam, Hadramawt	Naqeb	14.3012852	48.9397222
277	Aledhes, Barwam, Hadramawt	Alhjla	14.3539162	48.9812942

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
278	Shamwsa, Barwam, Hadramawt	Bahjeri	14.3981768	48.9983763
279	Hella, Barwam, Hadramawt	Jwal Alriad	14.4219444	49.0125622
280	Aeded, Barwam, Hadramawt	Aeaud	14.4330556	49.0150679
281	Alkerba, Barwam, Hadramawt	Bahjeri	14.4410121	49.0195891
282	Bwar, Barwam, Hadramawt	Kalbwet	14.4468053	49.0238336
283	Alkaria, Barwam, Hadramawt	Fawh	14.4737641	49.0437359
284	Ambika, Barwam, Hadramawt	Shehwra	14.5042356	49.0729866
285	Almukla, Almukla, Hadramawt	Almasna	14.5320988	49.1254321
286	Almuaws, Almukla, Hadramawt	Heirh	14.5594187	49.1985887
287	Rawkeb, Almukla, Hadramawt	Almhnihi	14.5676362	49.2104194
288	Bawish, Almukla, Hadramawt	Alhawi	14.5827268	49.2277567
289	Tjma Badwi, Almukla, Hadramawt	Falek	14.5992732	49.2643379
290	Jolt Alrian, Almukla, Hadramawt	Alrida	14.6296588	49.3114775
291	Qiel Bawzier, Qiel Bawzier, Hadramawt	Karieb	14.6362710	49.3361995
292	Mzari Alata, Qiel Bawzier, Hadramawt	Ashah	14.6428776	49.3503689
293	Aldaba, Alshahr, Hadramawt	Maina	14.7080237	49.5112067
294	Zakfa, Alshahr, Hadramawt	Bawazier	14.7236459	49.5316319
295	Alhabs, Alshahr, Hadramawt	Alhabs	14.7343174	49.5598256
296	Swiber, Alshahr, Hadramawt	Tamneh	14.7886533	49.7611111
297	Marbwh, Alshahr, Hadramawt	Hazhz	14.8027819	49.8051825
298	Aldis Alsarqi, Alshahr, Hadramawt	Rathad	14.8244183	49.8681826
299	Alsair, Aldies, Hadramawt	Faried	14.8350678	49.8926400
300	Alima, Aldies, Hadramawt	Wad Alymah	14.8375437	49.8976142
301	Tawban, Aldies, Hadramawt	Maqra	14.8416239	49.9066667
302	Alrjida, Aldies, Hadramawt	Kamwada	14.8497048	49.9241667
303	Alkrifa, Aldies, Hadramawt	Dayes	14.8489741	49.9473185
304	Jawl Algrifa, Aldies, Hadramawt	Habwark	14.8473836	50.0133191
305	Alqarn, Aldies, Hadramawt	Halfwen	14.8429209	50.0864184
306	Yadfed, Aldies, Hadramawt	Sabah	14.8441467	50.0914564
307	Raes Bakshwa, Aldies, Hadramawt	Shazwera	14.8675299	50.1893319
308	Dnbat, Aldies, Hadramawt	Alqwadrin	14.9012028	50.2419444
309	Athieta, Aldies, Hadramawt	Thenabat	14.9120330	50.2688004
310	Ased Alfaia, Alrida, Hadramawt	Ased Alfaia	14.9197030	50.2891020
311	Qasear, Alrida, Hadramawt	Maber	14.9444628	50.3459780
312	Aldebeq, Alrida, Hadramawt	Alhwda	14.9682332	50.3738466
313	Srar, Alrida, Hadramawt	Alshefa	14.9921743	50.4150766
314	Alhafa, Alrida, Hadramawt	Nashwa	15.0022222	50.4357573
315	Alaieq, Alrida, Hadramawt	Haid	15.0402778	50.5365958
316	Rakmit, Alrida, Hadramawt	Kalyweb	15.0518904	50.5837826
317	Tjma Qwiber, Alrida, Hadramawt	Alkiel	15.0572222	50.6183972
318	Tjma Bdhiet, Alrida, Hadramawt	Bdhiet	15.0583333	50.6278139
319	Msinah, Alrida, Hadramawt	Alatam	15.0736355	50.7100000
320	Alsaheb, Alrida, Hadramawt	Mawak	15.0807379	50.7490948
321	Hdatehm, Alrida, Hadramawt	Hasay	15.0815647	50.7578836
322	Aldamk, Almasila, Almahra	Radhin	15.1042880	50.8541667
323	Alshbaek, Almasila, Almahra	Aljahda	15.1056042	50.8624623
324	Yafqwur, Almasila, Almahra	Masheb	15.1119927	50.8825000

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
325	Tamnon, Almasila, Almahra	Haizez	15.1194137	50.9190509
326	Alshaqef, Almasila, Almahra	Bdo Fesh	15.1204909	50.9241021
327	Tjma Alkalel, Almasila, Almahra	Qalana	15.1432729	50.9902778
328	Arbwet, Almasila, Almahra	Dmidan	15.1495681	51.0264660
329	Yaswet, Almasila, Almahra	Arbwet	15.1523286	51.0396926
330	Raqwat, Almasila, Almahra	Alqiad	15.1579820	51.0675736
331	Sharkat, Almasila, Almahra	Alhwmra	15.1636123	51.0908321
332	Qant Alniel, Almasila, Almahra	Rhdied	15.1666842	51.1125000
333	Alais Altahni, Almasila, Almahra	Alais	15.1672839	51.1220061
334	Qarit Darfat, Sihwat, Almahra	Darfiet	15.1919444	51.2015544
335	Sihwat, Sihwat, Almahra	Salfahwet	15.2077063	51.2519444
336	Qalaw, Sihwat, Almahra	Alqiteh	15.2153139	51.2738889
337	Kater, Sihwat, Almahra	Yalkwni	15.2266261	51.3006795
338	Tjma Sharkem, Sihwat, Almahra	Abdwet	15.2360102	51.3328533
339	Radwt Alshrqi, Sihwat, Almahra	Atab	15.2477778	51.3736327
340	Tjma Felkum, Sihwat, Almahra	Arqwat	15.2596500	51.4024759
341	Etab, Sihwat, Almahra	Dahshar	15.3002603	51.4808178
342	Tjma Qaid, Sihwat, Almahra	Qrwami	15.3205467	51.5347222
343	Tjma Alhwma, Qashen, Almahra	Alhwma	15.3206763	51.5371226
344	Tjma Twani, Qashen, Almahra	Qaid	15.3283208	51.5661174
345	Salwel, Qashen, Almahra	Qashen	15.4000315	51.6544444
346	Tjma Gaiwan, Qashen, Almahra	Hamriet	15.4149756	51.6788889
347	Mkieb, Qashen, Almahra	Qalet	15.4358166	51.7170100
348	Tjma Sleif, Qashen, Almahra	Hwitem	15.4388801	51.7415770
349	Tjma Raes, Qashen, Almahra	Tjma Raes	15.4598382	51.8146063
350	Saqeir, Heswin, Almahra	Qleit	15.4953231	51.8674547
351	Dahlil, Heswin, Almahra	Delbtwt	15.5225187	51.9343300
352	Tjma Rakeit, Heswin, Almahra	Rakeit	15.5505406	52.0031581
353	Gadwa, Heswin, Almahra	Alshieni	15.5610713	52.0355160
354	Tjma Alshini, Heswin, Almahra	Alhaji	15.5734289	52.0694763
355	Haegy, Heswin, Almahra	Heswien	15.5857551	52.1081980
356	Keisiet, Heswin, Almahra	Qadifwet	15.6100371	52.1772594
357	Qalief, Alqidah, Almahra	Qlbief	15.7472432	52.1867793
358	Mahwhi, Alqidah, Almahra	Kliev	15.8120950	52.1903965
359	Nashtwan, Alqidah, Almahra	Fashae	15.8226826	52.1907458
360	Tjma Anshal, Alqidah, Almahra	Kaeh	15.8433908	52.1717242
361	Tjma Saqiet, Alqidah, Almahra	Saqiet	15.8539998	52.1610969
362	Tjma Kashe, Alqidah, Almahra	Radhait	15.8747222	52.1580530
363	Tjma Shamat, Alqidah, Almahra	Ashbwn	15.9480207	52.1489384
364	Tjma Kmithm, Alqidah, Almahra	Waihek	15.9527778	52.1488284
365	Harwet, Alqidah, Almahra	Qmithem	15.9808398	52.1493669
366	Matwun, Alqidah, Almahra	Sicalet	16.0005521	52.1570526
367	Fahwari, Alqidah, Almahra	Manear	16.0339547	52.1715149
368	Mahfief, Alqidah, Almahra	Mrayet	16.1620865	52.2107605
369	Qater, Alqidah, Almahra	Tabdi	16.2321855	52.2622406
370	Mwenea, Alqidah, Almahra	Tefalen	16.2633450	52.2822105
371	Tabdi, Alqidah, Almahra	Hawlen	16.3118285	52.3216987

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
372	Alhsen, Alqidah, Almahra	Matwoet	16.3845928	52.3976295
373	Saimer Hanwb, Alqidah, Almahra	Hanwab	16.3986686	52.4158524
374	Alsheik Aljwda, Alqidah, Almahra	Nawdi	16.4220808	52.4518081
375	Tenfalen, Alqidah, Almahra	Kamwmi	16.4292597	52.4638892
376	Haet, Alqidah, Almahra	Haet	16.4361363	52.4815531
377	Tjma Haikea, Alqidah, Almahra	Shahen	16.4486135	52.5123860
378	Tjma Lwesik, Alqidah, Almahra	Anaeh	16.4616349	52.5455494
379	Habrwet, Alqidah, Almahra	Raquiet	16.4658709	52.5594699
380	Qwed Dha Kwam, Hawef, Almahra	Frediet	16.5349424	52.7418151
381	Bal Rafdat, Hawef, Almahra	Alwaqf	16.5429505	52.7658621
382	Daheq, Hawef, Almahra	Daheq	16.5887666	52.8824667
383	Faleq, Hawef, Almahra	Qaeb	16.6030185	52.9236358
384	Rahen, Hawef, Almahra	Jatheb	16.6175409	52.9538480
385	Harad, Hawef, Almahra	Qadwet	16.6240024	52.9844444
386	Hzahiez, Hawef, Almahra	Arswas	16.6349218	53.0344444
387	Gilab, Hawef, Almahra	Hzahiz	16.6402778	53.0662773
388	Almndar, Alhodidah, Alhodidah	Almnajei	14.7074279	42.9545293
389	Alazaf, Almtarba, Lahej	Alnabya	12.7390257	43.6237479
390	Albrwda, Almtarba, Lahej	Almahja	12.5978678	43.9377061
391	Algher, Almtarba, Lahej	Areish	12.7131328	44.4488116
392	Maktieb, Almtarba, Lahej	Alkweifi	12.7285979	44.4616137
393	Saber, Almnsora, Aden	Rabad	12.8511111	44.9921898
394	Kwer Maqser, Kwer Maqser, Aden	Almaela	12.8254392	45.0199023
395	Kreiter, Sirahh, Aden	Twbathan	12.7786614	45.0439140
396	Mesqa, Kanfer, Abyan	Alwdiea	13.4186861	46.0110611
397	Sheab, Kanfer, Abyan	Baqisha	13.4219399	46.1407500
398	Almanwar, Kanfer, Abyan	Alqwefa	13.4204793	46.3360348
399	Tseqa, Almasila, Almahra	Alqyad	15.1130422	50.8888889
400	East-mount, Zugar Island, Alhodidah	East Zugar Island	13.9892316	42.7854906
401	West-mount, Zugar Island, Alhodidah	West Zugar Island	14.0256530	42.6983333
402	North-mount, Zugar Island, Alhodidah	North Zugar Island	14.0584913	42.7380556
403	West-mount, Kamaran Island, Alhodidah	West Kamran Island	15.3925297	42.5791964
404	Mokarem, Kamaran Island, Alhodidah	Mokarem	15.3843082	42.5922222
405	Alymim, Kamaran Island, Alhodidah	Alymim	15.3391547	42.6114009
406	Awtaf, Hedibo, Socotra	Atrwer	12.6033333	53.8020498
407	Alamah, Hedibo, Socotra	Sharhen	12.5968965	53.8393965
408	Daihtmaw, Hedibo, Socotra	Traba	12.6075421	53.8567312
409	Msaqbhen, Hedibo, Socotra	Mawri	12.6081418	53.8568200
410	Nwajher, Hedibo, Socotra	Sharena	12.6396497	53.9358333
411	Sqaseq, Hedibo, Socotra	Danhgen	12.6553765	54.0226790
412	Srhien, Hedibo, Socotra	Qshayhen	12.6599453	54.0339436
413	Sweq, Hedibo, Socotra	Hashera	12.6675324	54.0593809
414	Dylishia, Hedibo, Socotra	Saryhen	12.6840668	54.1308090
415	Shwadher, Hedibo, Socotra	Baneh	12.6712444	54.1491667
416	Garidarhein, Hedibo, Socotra	Dwaq	12.6376246	54.2156994
417	Hamahrten, Hedibo, Socotra	Tmirwh	12.6063965	54.3221398
418	Mshfaqa, Hedibo, Socotra	Bansha	12.4590371	54.3667639

N.	(Village, District, Governorate) location	M-Wadi of Estuary location	Latitude	Longitude
419	Arefaq, Hedibo, Socotra	Matief	12.4477300	54.3026089
420	Halmia, Hedibo, Socotra	Hwreho	12.4457066	54.2808333
421	Rawqab, Hedibo, Socotra	Shbhwen	12.4409585	54.2618999
422	Mahaferhen, Hedibo, Socotra	Farahw	12.3987164	54.2200000
423	Mabed, Hedibo, Socotra	Yafarhw	12.3928207	54.1948685
424	Zaheq, Hedibo, Socotra	Yezazhw	12.3569668	54.1170222
425	Shrad, Hedibo, Socotra	Hashra	12.3627015	54.0908333
426	Hadrhen, Hedibo, Socotra	Zanqana	12.3558182	54.0794444
427	Abtarah, Hedibo, Socotra	Kandeq	12.3525918	54.0488277
428	Himarh, Hedibo, Socotra	Darher	12.3529318	54.0325000
429	Mharef, Hedibo, Socotra	Maqnabher	12.3391667	53.9613889
430	Satwra, Hedibo, Socotra	Faqeh	12.3355938	53.9188889
431	Kwdher, Hedibo, Socotra	Fwaher	12.3230001	53.8705556
432	Saihen, Hedibo, Socotra	Salhen	12.3148045	53.8447222
433	Qtania, Hedibo, Socotra	Gameh	12.3142672	53.8192604
434	Labthiten, Hedibo, Socotra	Mashanwa	12.3065914	53.7828531
435	Qshieb Qriba, Hedibo, Socotra	Aliehan	12.3039806	53.7480504
436	Dashieq, Hedibo, Socotra	Amaleg	12.3020468	53.7325000
437	Delqamwnah, Hedibo, Socotra	Sharhen	12.3046373	53.6800464
438	Sabrwha, Hedibo, Socotra	Siaqw	12.3562452	53.5445785
439	Dabter, Qalansia, Socotra	Qarzen	12.4112183	53.4922222
440	Disea, Qalansia, Socotra	Laquer	12.4683333	53.4084571
441	Twahek, Qalansia, Socotra	Kaleha	12.4858690	53.3782976
442	Qabhen, Qalansia, Socotra	Dahtem	12.5461508	53.3695503
443	Bwarek, Hedibo, Socotra	Mesak	12.5713209	53.3992346
444	Qwashen, Qalansia, Socotra	Qwashen	12.5789980	53.4009901
445	Saiher, Qalansia, Socotra	Qader	12.6484506	53.4005862
446	Qalansia, Qalansia, Socotra	Haheh	12.6875000	53.4821152
447	Aqahel, Qalansia, Socotra	Mashreb	12.6398841	53.7317127
448	Diadeq, Qalansia, Socotra	Atrwar	12.6315828	53.7438889
449	Kilemia, Abdh Kweri, Socotra	Saleh	12.2000716	52.2857885
450	Biet Eisa, Abdh Kweri, Socotra	Alalia	12.2272717	52.1565690
451	Rahdied, Almasila, Hadramawt	Hadramawt	15°07'10.35"	50°05'31.53"

APPENDIX 4: TABLES2: CHARACTERISTICS OF YEMEN WATERSHEDS AND ESTUARINE WETLANDS

Code: **WA:** Watershed Area (Km²), **WP** : Watershed Perimeter (Km), **WS:** Watershed shape (KG), **WM:** Watershed main stream length (m), **WO:** Watershed Slope (%), **WP:** Average annual precipitation (mm), **WH:** Watershed Maximum altitude (m), **EA:** Estuarine Area (ha), **EL:** Estuarine length (m), **EH:** Estuarine height (m), **EW:** Estuarine width (m), **SC:** Sea Connection, **HT:** High Tide level (m), **FT:** Flow Type/ Water regime, **SE:** Sea exposition, **MO:** Modification/Channel, **DG:** Dominant geological outcrops, **Y:** Yes, **N:** No, **Per:** Permanent, **Tem:** Temporary, **Seo:** Seasonal, **RS:** Red Sea, **RSMB:** Red Sea and Bab Almandeb, **GA:** Gulf of Aden, **AS:** Arabian Sea, **ARIO:** Arabian Sea and Indian Ocean, **Nat:** Natural, **Cha:** Channel, **QA:** Quaternary alluvial deposits (Quaternary rocks), **TV:** Tertiary volcanicrocks (Tertiary rocks), **SG:** Sandstones, gypsum and limestone (Shihr Group) (Miocene sediments), **QV:** Quaternary volcanics (basalts) (Quaternary rocks), **SU:** Sandstone (Umm-Er-Radhuma Formation) (Lower TertiaryHadarmawt Group), **LH:** Limestone (Habshiat Formation) (Lower Tertiary Hadarmawt Group), **BL:** Bedded limestone (Jeza Formation) (Lower Tertiary Hadarmawt Group), **GA:** Gypsum/anhydrites and dolomitic limestone (Rus formation) (Lower Tertiary Hadarmawt Group), **ST:** Sandstone (Tawilah Gr., Cretaceous) (Mesozoic Sedimentary Rocks), **LA:** Limestone (Amran Gr. And Jurassic) (Mesozoic Sedimentary Rocks).

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
1	4379.68	636.83	2.69	251225.39	1.45	218.3	3658	TV	74.35	2588,36	4	287,23	Y	2	Per	RS	Nat	QA
2	2897.69	560.47	2.92	215110.93	1.37	241.3	2951	TV	34.26	2918,48	4	117,4	N	2	Seo	RS	Nat	QA
3	4713.36	567.72	2.32	230687.88	1.40	275.9	3227	TV	12.58	1190,86	6	105,67	N	2	Seo	RS	Nat	TV
4	1186.71	300.2	2.44	137362.40	1.92	275.3	2642	TV	4.98	639,94	3	77,88	N	1	Tem	RS	Nat	QA
5	878.51	162.42	1.53	38380.40	3.36	206.6	1296	QA	11.72	696,28	3	168,31	N	1	Seo	RS	Nat	QA
6	2103.71	362.97	2.22	179404.26	1.66	283.9	2989	TV	94.04	2376,75	3	395,68	Y	1	Per	RSMB	Nat	TV
7	1719.36	347.59	2.35	137033.08	2.18	240	2998	TV	302.66	5411.03	2	559,33	Y	1	Per	RSMB	Nat	TV
8	624.24	163.07	1.83	71115.00	1.46	172.7	1045	QA	19.70	1272,66	1	154,79	N	1	Seo	RSMB	Nat	TV
9	226.58	141.95	2.64	55654.77	1.51	157.1	843	TV	2.67	433,12	2	61,57	N	3	Seo	RSMB	Nat	QA
10	1222.05	252.31	2.02	108437.82	1.91	146	2066	TV	2.27	521,85	8	43,54	N	3	Seo	RSMB	Nat	TV
11	804.5	207.26	2.05	84970.05	2.60	129.9	2230	TV	1.08	307,85	2	35,04	N	4	Seo	GA	Nat	SG
12	1141.81	269.77	2.24	122420.72	1.93	139.3	2375	SS	3.02	494,05	1	61,12	N	4	Seo	GA	Nat	SG
13	6844.96	633.15	2.14	234124.74	1.37	213.2	3207	TV	21.84	1549,63	3	140,95	Y	4	Per	GA	Nat	TV
14	9327.61	791.64	2.30	314284.28	1.03	167.8	3233	SS	172.31	5651,09	1	304,92	Y	4	Per	GA	Nat	SG
15	3304.11	443.84	2.16	191593.71	1.31	121.5	2507	SS	75.08	3995,29	7	187,93	Y	4	Per	GA	Nat	SG
16	7102.4	654.1	2.17	207387.99	1.18	107.1	2454	SS	25.11	2145,65	9	117,04	Y	4	Tem	GA	Nat	SG
17	579.32	206.07	2.40	71519.72	2.29	86.19	1646	SS	12.65	989,81	2	127,82	N	4	Seo	GA	Nat	SG
18	5255.27	574.02	2.22	196160.16	1.06	101.5	2090	ST	3.10	498,01	5	62,17	N	4	Seo	GA	Nat	SU
19	1153.76	222.71	1.84	81187.31	2.09	66.59	1706	BJ	46.55	2218,04	9	209,85	N	4	Tem	AS	Nat	QA
20	9451	761.65	2.19	279848.45	0.77	92.64	2164	SU	162.23	8855,24	3	183,20	Y	2	Per	AS	Nat	SU
21	1813.45	287.06	1.89	138069.51	1.50	53.17	2085	SU	148.97	2686,71	4	554,47	Y	2	Per	AS	Nat	SU
22	1132.76	241.48	2.01	98084.89	1.97	54.32	1941	SU	47.05	1442,80	3	326,12	Y	2	Per	AS	Nat	SU
23	1071.92	195.15	1.67	87596.50	2.24	61.63	1972	SU	136.82	3442,02	4	397,49	Y	2	Per	AS	Nat	SU
24	1451.52	249.76	1.84	102995.42	1.94	65.46	2010	BJ	10.95	1640,40	3	66,78	N	2	Per	AS	Nat	QA
25	588.66	141.75	1.64	54120.85	2.89	79.13	1565	SU	98.54	5271,45	3	186,94	N	2	Per	AS	Nat	QA
26	761.77	221.42	2.25	92623.07	1.69	81.78	1579	SU	32.94	2232,31	2	147,58	Y	2	Per	AS	Nat	SU
27	3109.75	446.47	2.24	173323.91	0.87	83.96	1508	GR	8.82	1222,50	4	72,18	N	2	Tem	AS	Nat	SG
28	722.66	194.02	2.02	70438.89	1.81	87.48	1283	LH	71.02	1324,51	6	536,17	N	2	Tem	AS	Nat	LH
29	865.53	178.52	1.70	69353.53	1.54	100.1	1071	QA	35.94	2008,96	3	178,91	N	2	Tem	AS	Nat	QA
30	583.69	194.78	2.26	82865.81	1.62	82.53	1350	BJ	64.53	2809,02	5	229,74	Y	2	Per	AS	Nat	BL
31	1223.79	283.68	2.27	115248.00	1.16	66.58	1349	LH	7.05	640,87	1	109,95	N	2	Per	AS	Nat	LH
32	18485.08	1180.75	2.43	323502.05	0.38	96.56	1233	LH	275.84	4032,50	1	684,05	Y	2	Per	AS	Nat	GA
33	3399.52	416.36	2.00	171647.12	0.62	94.84	1078	LH	110.50	2471,86	2	447,03	N	2	Per	AS	Nat	LH
34	995.22	201.66	1.79	91604.95	1.54	94.56	1421	LH	12.55	830,06	3	151,20	N	2	Per	AS	Nat	LH
35	518.17	129.03	1.59	60743.90	2.26	102.7	1376	SU	9.43	703,30	5	134,13	N	2	Per	AS	Nat	SU
36	988.07	305.72	2.72	120290.82	1.45	192.7	1752	SS	424.85	5439,80	11	781,01	Y	2	Per	RS	Cha	SG
37	228.3	148.52	2.75	49100.07	0.32	150.7	164	QA	242.44	5609,39	7	432,20	Y	2	Per	RS	Nat	QA
38	256.02	158.25	2.77	55640.41	0.15	165	90	QA	347.60	4563,90	4	761,62	Y	2	Per	RS	Nat	QA
39	835.92	237.55	2.30	86339.91	1.81	191.2	1574	QA	48.52	2482,49	9	195,45	Y	2	Seo	RS	Nat	SG
40	143.29	104.92	2.45	38380.40	0.35	150	144	QA	158.54	2297,32	3	690,13	Y	2	Seo	RS	Nat	QA
41	444.5	244.16	3.24	89902.18	2.36	204.4	2134	QA	61.21	1880,75	5	325,45	Y	2	Seo	RS	Nat	SG
42	137.61	100.82	2.41	38408.18	0.33	144.7	133	QA	164.45	4935,80	5	333,17	Y	2	Tem	RS	Nat	QA
43	62.37	67.98	2.41	22174.54	0.34	135.7	83	QA	353.56	5648,88	7	625,89	Y	2	Per	RS	Nat	QA
44	86.79	87.52	2.63	32422.30	0.39	148.5	135	QA	127.25	2544,18	9	500,15	Y	2	Per	RS	Nat	QA
45	35.1	47.78	2.26	16813.83	0.45	117.2	83	QA	40.67	2956,96	2	137,53	Y	2	Tem	RS	Nat	QA
46	608.79	169.24	1.92	65040.19	0.98	169.1	649	QA	60.94	3965,41	4	153,67	Y	2	Tem	RS	Nat	QA
47	157.45	109.32	2.44	35118.43	0.21	127.3	81	QA	308.74	5113,24	3	603,80	Y	2	Seo	RS	Nat	QA
48	237.68	121.36	2.20	39574.28	0.21	132.2	90	QA	371.02	4308,51	5	861,14	Y	2	Tem	RS	Cha	QA
49	8728.27	818.41	2.45	332958.93	1.01	214.3	3376	TV	292.49	12954,36	9	869,58	N	2	Seo	RS	Nat	QA
50	11.05	21.89	1.84	4183.15	0.53	51	30	QA	66.03	2205,31	6	299,41	N	2	Tem	RS	Nat	QA
51	53.02	42.82	1.65	10684.61	1.10	104.1	127	QA	66.37	2093,61	5	317,01	N	2	Seo	RS	Nat	QA
52	59.16	76.56	2.79	30674.42	0.37	119.4	120	QA	92.87	2462,17	6	377,19	N	2	Seo	RS	Nat	QA
53	317.54	131.04	2.06	53075.63	0.21	141.4	116	QA	30.44	2059,70	5	147,78	Y	2	Tem	RS	Cha	QA
54	435.28	177.25	2.38	75074.96	0.25	142.4	197	QA	218.87	3304,61	6	662,31	Y	2	Per	RS	Nat	QA
55	766.31	269.05	2.72	122372.79	1.93	92.64	2360	QA	11.32	1281,19	8	88,32	Y	2	Tem	RS	Nat	QA
56	3522.77	516.83	2.44	206393.63	1.74	223.2	3588	TV	60.08	2751,81	5	218,34	Y	2	Tem	RS	Nat	QA
57	346.14	140.67	2.12	50748.60	0.22	149.8	122	QA	1.79	517,50	5	34,61	Y	2	Per	RS	Nat	QA
58	27.65	34.96	1.86	9760.43	0.25	80.52	30	QA	250.96	3854,29	2	651,12	N	2	Tem	RS	Nat	QA
59	7.9	20.99	2.09	3049.40	0.92	50	28	QA	131.57	3204,41	5	410,60	Y	2	Per	RS	Nat	QA
60	9.32	18.42	1.69	2155.56	0.60	48	18	QA	231.19	4732,21	3	488,55	Y	2	Per	RS	Nat	QA
61	50.83	58.67	2.30	17583.18	0.26	131.5	51	QA	3.23	789,11	9	40,93	N	2	Seo	RS	Nat	QA

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
62	263.12	163.13	2.82	55886.15	0.37	167.9	211	QA	4.16	563.21	7	73.91	N	2	Seo	RS	Nat	QA
63	17.72	25.92	1.72	7714.21	0.51	116.1	47	QA	1.30	246.78	10	52.55	N	2	Seo	RS	Nat	QA
64	350.01	197.91	2.96	76745.37	1.21	174.1	935	QA	2.38	603.18	11	39.53	N	2	Seo	RS	Nat	QA
65	25.97	47.55	2.61	14053.56	0.71	119	107	QA	5.71	1245.94	11	45.86	Y	2	Per	RS	Nat	QA
66	41.9	56.46	2.44	19717.27	0.50	111.3	107	QA	277.72	4046.46	5	686.32	N	2	Seo	RS	Nat	QA
67	17.88	37.69	2.50	10770.92	0.50	118.8	54	QA	4.72	616.32	6	76.52	N	2	Seo	RS	Nat	QA
68	34.02	38.4	1.84	11121.14	0.56	118.8	67	QA	1.39	406.37	4	34.17	N	2	Seo	RS	Nat	QA
69	731.26	262.14	2.71	102750.32	1.27	184	1314	QA	6.05	1458.68	7	41.49	N	2	Seo	RS	Nat	QA
70	7.81	17.57	1.76	4378.24	0.94	51	41	QA	0.67	384.95	6	17.43	N	2	Seo	RS	Nat	QA
71	125.65	113.99	2.85	43862.12	0.39	149.1	175	QA	0.86	265.67	6	32.24	N	2	Seo	RS	Nat	QA
72	19.85	28.72	1.80	7663.29	0.51	50	46	QA	16.10	993.87	3	161.98	Y	2	Tem	RS	Nat	QA
73	18.9	31.93	2.06	9346.96	0.41	125.4	44	QA	4.81	510.16	9	94.26	Y	2	Seo	RS	Nat	QA
74	1026.26	257.9	2.25	93053.29	2.61	185.4	2436	QA	40.22	1726.80	11	232.91	Y	2	Tem	RS	Nat	QA
75	118.99	73.49	1.89	25840.33	0.60	116.2	155	QA	9.13	1418.10	5	64.37	Y	2	Per	RS	Nat	QA
76	10.29	22.88	2.00	5385.41	0.84	52	45	QA	23.88	2715.35	7	87.94	Y	2	Per	RS	Nat	QA
77	1405.2	275.05	2.05	107868.36	2.65	208.1	2855	QA	81.64	6648.95	6	122.78	Y	2	Per	RS	Nat	QA
78	254.92	127.58	2.24	41632.20	0.43	139.4	178	QA	3.60	1027.05	13	35.06	Y	2	Seo	RS	Cha	QA
79	253.13	161.23	2.84	53946.24	0.41	161.6	219	QA	17.83	1062.25	8	167.81	N	2	Seo	RS	Nat	QA
80	92.68	83.39	2.43	28358.96	0.60	132.7	177	QA	46.98	2926.60	17	160.53	Y	1	Per	RS	Nat	QA
81	21.47	33.43	2.02	11150.65	0.92	51	115	QA	8.76	2758.01	13	31.77	N	1	Seo	RS	Nat	QA
82	465.54	187.11	2.43	79764.20	0.43	176.5	358	QA	5.95	1031.08	11	57.71	N	1	Seo	RS	Nat	QA
83	9.39	20.96	1.92	5643.24	1.67	51	105	QA	1.46	423.95	5	34.51	N	1	Seo	RS	Nat	QA
84	18.91	34.18	2.20	7694.29	1.17	53	100	QA	1.23	614.77	7	20	N	1	Tem	RS	Nat	QA
85	87.2	68.63	2.06	24567.65	0.69	156.6	181	QA	24.69	4,529,223	7	54.51	N	1	Seo	RS	Nat	QA
86	502.86	197.88	2.47	85861.42	1.85	203.7	1602	QA	16.07	1483.69	9	108.30	N	1	Seo	RS	Nat	QA
87	38.25	55.36	2.51	19683.62	0.35	143.4	77	QA	13.62	1894.50	5	71.88	N	1	Seo	RS	Nat	QA
88	69.8	69.54	2.33	27746.30	0.30	151.4	93	QA	8.06	2034.98	5	39.62	N	1	Seo	RS	Nat	QA
89	144.14	110.35	2.57	48718.29	0.48	187	236	QA	5.58	1363.31	7	40.96	N	1	Seo	RS	Nat	QA
90	740.09	203.48	2.09	86162.19	1.61	212.8	1391	QA	1.30	554.34	4	23.51	N	1	Seo	RS	Nat	QA
91	13.06	22.45	1.74	5458.01	1.70	54	97	QA	1.06	462.81	5	22.93	N	1	Seo	RS	Nat	QA
92	43.61	43.62	1.85	11654.72	1.05	157	131	QA	5.63	992.51	8	56.68	N	1	Tem	RS	Nat	QA
93	10.29	18.75	1.64	5390.19	1.67	55	98	QA	7.04	882.70	10	79.78	N	1	Seo	RS	Nat	QA
94	98.34	84.46	2.38	32787.37	0.57	193.3	201	QA	5.25	856.25	14	61.31	N	1	Tem	RS	Nat	QA
95	37.69	51.34	2.34	19290.75	0.63	187.1	133	QA	4.37	802.24	10	54.46	N	1	Seo	RS	Nat	QA
96	14.88	28.59	2.08	9911.57	0.70	52	78	QA	17.45	1259.85	9	138.51	Y	1	Per	RS	Nat	QA
97	49.18	59	2.36	22949.00	0.51	179.8	126	QA	2.80	379.14	6	73.82	N	1	Seo	RS	Nat	QA
98	23.52	32.01	1.85	10268.10	0.93	53	104	QA	0.82	426.34	6	19.34	N	1	Seo	RS	Nat	QA
99	354.27	125.88	1.87	45713.68	2.83	215.4	1302	QA	8.57	955.10	5	89.70	N	1	Tem	RS	Nat	QA
100	147.4	107.34	2.48	44600.15	0.64	171.9	294	QA	18.42	2046.42	4	90	N	3	Per	RSMB	Nat	QA
101	220.62	125.42	2.36	50020.01	0.87	174.1	442	QA	27.68	3038.30	1	91.12	N	3	Tem	RSMB	Nat	QA
102	203.73	112.5	2.21	44900.92	0.76	166.3	348	QA	39.62	3678.56	2	107.70	N	3	Seo	RSMB	Nat	QA
103	459.52	172.69	2.26	1552.61	55.33	157.7	866	QA	216.87	5659.57	1	383.19	N	3	Seo	RSMB	Nat	QA
104	10.33	20.48	1.78	5761.15	0.89	53	58	QA	1.74	480.39	2	36.29	N	3	Seo	RSMB	Nat	QA
105	141.45	86.09	2.03	33382.55	1.27	153.8	431	QA	4.57	1420.54	1	32.15	Y	3	Per	RSMB	Nat	QA
106	205.7	103.2	2.01	43652.26	2.11	146.1	929	QA	4.67	1039.50	3	44.92	Y	3	Tem	RSMB	Nat	QA
107	25.52	31.52	1.75	10988.55	0.65	115.7	80	QA	6.04	1003.90	1	60.15	N	3	Seo	RSMB	Nat	QA
108	248.22	99.25	1.76	42894.03	1.84	141.6	797	QA	14.10	1521.31	3	92.71	N	3	Seo	RSMB	Nat	QA
109	145.96	100.26	2.32	40419.97	1.87	119.3	765	QA	10.70	1085.47	1	98.57	Y	3	Per	RSMB	Nat	QA
110	19.33	29.84	1.90	5579.75	1.43	0	89	QA	92.35	2976.08	1	310.32	Y	3	Per	RSMB	Nat	QA
111	32.13	37.3	1.84	7944.93	16.29	90.12	1304	QA	59.18	2893.84	1	204.51	N	3	Seo	RSMB	Nat	QA
112	126.68	88.96	2.21	39030.77	0.98	108.5	392	QA	49.09	2926.26	3	167.75	N	3	Seo	RSMB	Nat	QA
113	33.14	59.79	2.91	23899.96	1.09	136.7	270	QA	9.02	2209.44	6	40.81	N	3	Tem	RSMB	Nat	QA
114	58.98	75.83	2.76	32934.15	2.09	106.7	691	TV	0.45	221.90	3	20.16	N	3	Seo	RSMB	Nat	QA
115	90.36	79.38	2.34	30588.23	2.31	108.8	714	TV	25.08	2579.92	2	97.21	N	3	Seo	RSMB	Nat	QA
116	15.89	27.69	1.94	8574.78	1.36	90.91	123	TV	82.77	3467.67	5	238.70	N	3	Seo	RSMB	Nat	QA
117	42.85	60.75	2.60	26036.52	1.33	90.91	354	TV	20.83	3294.35	4	63.22	N	3	Tem	RSMB	Nat	QA
118	19.43	34.85	2.21	11516.31	1.16	119.4	145	QA	40.13	3032.22	3	132.34	N	3	Tem	RSMB	Nat	QA
119	47.51	71.52	2.91	30042.04	2.12	107.7	644	TV	31.02	1416.12	5	219.02	N	3	Tem	RSMB	Nat	QA
120	11.76	28.57	2.33	9256.52	1.29	53	127	QA	34.23	2912.15	5	117.55	N	3	Seo	RSMB	Nat	QA
121	141.62	81.22	1.91	34288.45	1.81	95.77	627	TV	9.38	1607.88	4	58.34	N	3	Seo	RSMB	Nat	QA
122	13.5	32.45	2.47	11274.95	1.09	53	128	QA	10.08	951.76	3	105.89	N	4	Seo	RSMB	Nat	QA
123	7.9	22	2.19	5904.62	1.58	53	93	QA	6.92	1151.41	4	60.08	N	4	Seo	RSMB	Nat	QA
124	8.45	21.48	2.07	5222.31	1.74	51	91	QA	4.63	1224.80	2	37.77	N	4	Seo	RSMB	Nat	QA
125	38.55	62.77	2.83	26856.23	2.12	134.4	576	QA	1.96	744.39	2	26.32	N	4	Tem	RSMB	Nat	QA
126	411.85	179.75	2.48	78755.13	1.57	120	1248	TV	6.02	1464.03	2	41.15	N	4	Seo	RSMB	Nat	QA
127	27.63	38.82	2.07	12147.12	0.62	79.64	81	QA	19.43	1667.63	2	116.52	N	4	Seo	RSMB	Nat	QA
128	20.47	30.96	1.92	9182.65	0.78	76.86	78	QA	3.53	925.01	1	38.11	N	4	Seo	RSMB	Nat	QA
129	162.62	147.8	3.25	65045.49	1.28	119.1	838	TV	8.74	1169.49	4	74.76	N	4	Seo	RSMB	Nat	QA
130	33.76	35.65	1.72	12992.71	4.79	81.37	629	QA	8.36	1375.32	5	60.79	N	4	Seo	GA	Nat	QA
131	8.65	14.56	1.39	3119.41	19.36	51	610	QA	25.25	1287.96	2	196.07	Y	4	Per	GA	Nat	QA
132	28.51	31.49	1.65	12075.22	6.72	81.77	822	TV	7.02	1174.56	5	59.78	N	4	Seo	GA	Nat	QA
133	13.39	20.56	1.57	4740.55	1.08	50	56	QA	28.85	4383.85	0	65.81	N	4	Seo	GA	Nat	QA
134	32.28	31.7	1.56	10715.50	3.24	74.74	357	TV	38.85	1717.98	3	226.14	N	4	Seo	GA	Nat	QA
135	31.96	52.71	2.61	20132.15	2.71	52	553	TV	1.58	587.31	0	26.98	N	4	Seo	GA	Nat	QA
136	28.69	52.07	2.72	17876.59	0.70	80.04	133	QA	3.73	766.72	11	48.69	N	4	Seo	GA	Nat	QA
137	132.09	92.05	2															

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
145	608.25	222.32	2.52	88570.80	1.52	80.44	1357	QA	9.37	1810.88	2	51.77	N	4	Seo	GA	Nat	QA
146	30.19	35.29	1.80	8989.39	1.03	53	98	QA	15.01	1351.05	2	111.11	N	4	Seo	GA	Nat	QA
147	14.16	25.21	1.88	4757.97	4.79	51	235	QA	6.45	332.11	1	194.28	N	4	Seo	GA	Nat	QA
148	17.1	32.63	2.21	11601.13	0.87	50	109	QA	74.78	2568.36	5	291.16	N	4	Seo	GA	Nat	QA
149	11.46	20.38	1.69	3314.95	0.75	50	33	QA	151.91	4169.93	7	364.30	Y	4	Per	GA	Nat	QA
150	108.69	69.15	1.86	26362.94	0.37	47.73	106	QA	19.05	1741.45	6	109.39	Y	4	Per	GA	Cha	QA
151	45.46	56.11	2.33	19907.94	0.48	58.72	103	QA	16.80	1967.87	8	85.39	Y	4	Per	GA	Cha	QA
152	52.66	47.16	1.82	11939.01	0.44	43.62	61	QA	235.49	6842.19	1	344.18	Y	4	Per	GA	Cha	QA
153	114.47	116.73	3.05	46865.92	0.42	53.9	206	QA	21.91	2328.22	0	94.10	N	4	Seo	GA	Nat	QA
154	704.47	163.85	1.73	68301.77	0.89	72.39	618	QA	12.04	1671.13	2	72.05	N	4	Seo	GA	Nat	QA
155	238.39	120.57	2.19	42150.31	1.41	65.57	603	QA	3.13	671.27	4	46.63	N	4	Seo	GA	Nat	QA
156	195.52	104.14	2.09	44001.64	0.73	68.23	330	QA	6.88	927.99	0	74.10	N	4	Seo	GA	Nat	QA
157	18.42	40.26	2.63	12070.05	0.62	51	84	QA	2.31	552.98	2	41.71	N	4	Seo	GA	Nat	QA
158	115.63	81.68	2.13	28947.45	0.35	57.56	107	QA	49.02	1664.79	6	294.44	N	4	Tem	GA	Nat	QA
159	9.73	22.97	2.06	5307.44	0.58	52	36	QA	28.46	1776.78	2	160.17	N	4	Tem	GA	Nat	QA
160	39.12	47.56	2.13	16336.97	0.34	53.65	61	QA	7.75	791	5	97.93	N	4	Tem	GA	Nat	QA
161	13.21	27.56	2.12	8080.25	0.41	54.74	44	QA	15.36	1308.52	3	117.39	N	4	Seo	GA	Nat	QA
162	139.7	65.11	1.54	24043.29	1.60	65.74	390	QA	11.87	993.34	5	119.52	N	4	Tem	GA	Nat	SG
163	77.25	55.01	1.75	21196.73	3.39	70.39	726	QA	12.33	1166.82	7	105.63	N	4	Seo	GA	Nat	SG
164	27.15	41.23	2.22	16263.66	4.25	78.14	699	QA	1.87	426.52	11	43.80	N	4	Seo	GA	Nat	SG
165	69.89	56.27	1.88	21544.27	3.38	80.71	735	QA	2.26	373.28	9	60.51	N	4	Seo	GA	Nat	SG
166	93.03	58.37	1.69	22933.65	4.02	76.62	929	SS	2.00	278.85	9	71.72	N	4	Seo	GA	Nat	SG
167	32.21	32.01	1.58	11132.84	4.63	52	521	SS	1.26	331.02	7	38.11	N	4	Seo	GA	Nat	SG
168	197.92	101.98	2.03	42059.01	3.03	89.65	1276	QV	0.69	224.71	8	30.64	N	4	Tem	GA	Nat	SG
169	6.52	18.88	2.07	4497.01	1.91	51	86	QV	1.62	293.30	8	55.15	N	4	Tem	GA	Nat	QA
170	158.77	108.49	2.41	53318.74	3.18	83.82	1700	QV	0.92	273.32	8	33.54	N	4	Seo	GA	Nat	QV
171	40.52	38.51	1.69	13612.13	6.60	77.64	903	QV	10.89	1185.94	8	91.80	N	4	Seo	GA	Nat	QV
172	10.19	20.85	1.83	6595.28	4.64	50	311	QV	1.17	221.94	7	52.84	N	4	Seo	GA	Nat	QV
173	14.51	29.29	2.15	10211.98	8.81	50	900	QV	1.35	380.08	8	35.52	N	4	Seo	GA	Nat	QV
174	14.63	33.02	2.42	12670.20	8.00	55	1020	QV	13.40	892.28	9	150.22	N	4	Seo	GA	Nat	QV
175	22.1	33.31	1.98	12661.59	8.81	94.2	1120	QV	5.26	708.36	6	74.20	N	4	Seo	GA	Nat	QV
176	12.18	23	1.85	7421.35	13.62	95.37	1017	QV	11.10	977.46	10	113.60	N	4	Seo	GA	Nat	QV
177	12.49	32.41	2.57	10522.24	10.56	55	1117	QV	0.77	221.95	7	34.54	N	4	Seo	GA	Nat	QV
178	15.31	24.12	1.73	6794.76	18.60	77.12	1268	QV	8.90	637.72	12	139.60	N	4	Seo	GA	Nat	QV
179	14.9	24.66	1.79	6273.29	24.31	74.83	1529	QV	1.44	358.08	10	40.20	N	4	Seo	GA	Nat	QV
180	30.24	33.07	1.68	11853.42	14.37	83.64	1710	QV	28.44	1107.36	11	256.81	N	4	Seo	GA	Nat	QV
181	20.02	30.54	1.91	10976.61	15.72	83.64	1732	QV	21.94	648.60	11	338.34	N	4	Seo	GA	Nat	QV
182	13.97	21.99	1.65	8083.30	14.21	51	1155	QV	38.64	1296.38	13	298.07	N	4	Seo	GA	Nat	QV
183	19.06	32.38	2.08	11570.86	14.46	83.35	1679	QV	1.68	395.57	9	42.59	N	4	Seo	GA	Nat	QV
184	10.51	18.42	1.59	4959.72	15.26	43	764	QV	79.89	1743.64	16	458.19	N	4	Seo	GA	Nat	QV
185	48.4	42.45	1.71	15080.58	10.67	81.47	1613	QV	7.88	754.41	11	104.43	N	4	Seo	GA	Nat	QV
186	52.73	55.45	2.14	25076.56	6.01	78.03	1514	QV	2.16	267.28	6	80.66	N	4	Seo	GA	Nat	QV
187	118.44	90.78	2.34	33481.38	4.36	83.37	1466	QV	2.45	445.04	8	55.10	N	4	Seo	GA	Nat	QV
188	91.74	62.28	1.82	25398.02	5.19	79.76	1323	QV	7.73	794.31	9	97.38	N	4	Seo	GA	Nat	QV
189	25.3	38	2.12	14188.03	3.88	74.05	557	QV	7.96	840.22	11	94.75	N	4	Seo	GA	Nat	QV
190	52.35	56.32	2.18	25725.29	5.23	86.33	1351	QV	5.71	777.83	12	73.38	N	4	Seo	GA	Nat	QV
191	67.3	54.97	1.88	26036.92	5.22	79.29	1366	QV	4.33	642.29	14	67.49	N	4	Seo	GA	Nat	QV
192	37.1	48.62	2.24	18719.42	6.51	77.99	1226	QV	12.96	736.76	14	175.95	N	4	Seo	GA	Nat	QV
193	16.24	25.43	1.77	8183.90	3.84	74.18	321	QA	0.83	301.46	9	27.57	N	4	Seo	GA	Nat	QA
194	7.98	18.82	1.87	4900.18	2.71	42	138	QA	0.21	133.91	8	15.62	N	4	Seo	GA	Nat	QA
195	102.21	83.95	2.33	31789.81	4.29	79.77	1369	QV	0.81	162.23	7	49.70	N	4	Seo	GA	Nat	QV
196	7.83	13.51	1.35	2468.57	1.98	45	53	QV	4.48	523.01	8	85.58	N	4	Tem	GA	Nat	QA
197	216.33	93.83	1.79	40073.18	3.11	72.84	1252	QV	1.91	329.96	7	58.01	N	4	Seo	GA	Nat	QA
198	28.19	34.91	1.84	10588.89	1.31	66.59	146	QV	1.34	460.30	6	29.17	N	4	Seo	GA	Nat	QA
199	57.17	50.41	1.87	20928.37	1.76	71.33	375	QV	0.56	278.85	6	20.22	N	4	Seo	GA	Nat	QA
200	17.51	27.35	1.83	8679.91	0.92	60.14	86	QV	2.09	344.59	6	60.76	N	4	Seo	GA	Nat	QA
201	156.96	121.56	2.72	54579.77	1.68	73.51	920	QV	1.61	589.88	4	27.25	N	4	Seo	GA	Nat	QA
202	57.42	70.91	2.62	25748.81	1.84	71.13	481	ST	3.82	381.65	10	100.20	N	4	Seo	GA	Nat	ST
203	49.79	53.71	2.13	22650.15	0.98	60.69	228	QV	3.16	412.41	6	76.52	N	4	Seo	GA	Nat	QV
204	11.21	16.62	1.39	3738.52	2.76	42	110	QV	4.90	504.29	9	97.10	N	4	Seo	GA	Nat	QA
205	273.12	128.56	2.18	54966.24	1.58	75.48	877	QV	5.29	863.30	7	61.30	N	4	Seo	GA	Nat	QA
206	127.73	70.37	1.74	28372.00	0.88	65.3	259	SS	2.21	786.42	6	28.13	N	4	Seo	GA	Nat	QA
207	252.35	108.86	1.92	47346.78	0.98	70.16	474	QA	2.73	739.12	7	36.99	N	4	Seo	GA	Nat	QA
208	232.17	135.29	2.49	56417.52	0.91	73.78	525	SS	5.20	1169.22	5	44.48	N	4	Seo	GA	Nat	QA
209	183.79	148.88	3.07	59711.54	1.29	76.12	781	SS	3.97	641.61	5	61.81	N	4	Seo	GA	Nat	QA
210	89.18	71.56	2.12	27000.43	1.33	72.31	370	QA	8.03	1148.68	5	69.94	N	4	Seo	GA	Nat	QA
211	248.67	163.78	2.91	61352.72	2.11	80.45	1304	SS	8.90	792.12	13	112.40	N	4	Seo	GA	Nat	QA
212	27.91	34.51	1.83	10705.88	2.50	66.44	274	QA	0.65	235.16	7	27.64	N	4	Seo	GA	Nat	QA
213	173.75	127.1	2.70	47849.38	1.98	75.55	956	SS	0.31	151.51	12	20.70	N	4	Seo	GA	Nat	QA
214	56.54	50.23	1.87	18358.64	1.51	66	285	SS	0.74	263.05	6	28.18	N	4	Seo	GA	Nat	QA
215	6.48	13.63	1.50	3112.03	3.79	0	125	QA	0.91	446.22	9	20.34	N	4	Seo	GA	Nat	QA
216	119.78	87.21	2.23	32625.40	1.39	67.91	461	SS	3.02	437.37	12	69.16	N	4	Seo	GA	Nat	SG
217	22.89	30.69	1.80	10159.34	1.81	67.59	193	QA	0.75	320	7	23.43	N	4	Seo	GA	Nat	QA
218	50.71	64.5	2.54	22972.15	1.48	70.65	354	SS	3.28	613.60	7	53.43	N	4	Seo	GA	Nat	SG
219	14.67	33.93	2.48	12202.16	1.72	61.95	218	QA	0.32	156.42	5	20.24	N					

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
228	22.77	39.48	2.32	15489.60	1.12	46	179	QA	1.42	477,16	7	29,70	N	4	Seo	GA	Nat	QA
229	88.85	104.41	3.10	40564.24	1.15	70.32	473	SS	0.84	237,76	7	35,22	N	4	Seo	GA	Nat	QA
230	27.73	49.14	2.61	16856.41	1.46	66.3	254	QA	0.85	342,24	4	24,87	N	4	Seo	GA	Nat	QA
231	22.72	33.67	1.98	9530.49	2.83	47	276	QA	0.55	320,60	4	17,19	N	4	Seo	GA	Nat	QA
232	8.1	17.96	1.77	4617.53	1.58	48	78	QA	3.28	618,50	4	53,06	N	4	Seo	GA	Nat	QA
233	263.84	118.44	2.04	50635.65	2.00	71.89	1020	SS	0.62	197,29	5	31,33	N	4	Seo	GA	Nat	ST
234	25.97	34.6	1.90	11663.66	2.24	48	268	QA	2.62	294,31	6	88,89	N	4	Seo	GA	Nat	QA
235	145.97	83.2	1.93	36571.06	1.81	64.32	669	LA	0.86	149,22	7	57,58	N	4	Seo	GA	Nat	ST
236	18.41	21	1.37	6232.81	4.22	50	272	ST	0.35	336,56	5	10,48	N	4	Seo	GA	Nat	ST
237	540.44	161.64	1.95	69219.01	2.51	78.86	1743	ST	2.06	382,72	7	53,70	N	4	Seo	GA	Nat	ST
238	26.07	32.7	1.79	10694.08	1.55	51	172	QA	1.26	326,66	6	38,49	N	4	Seo	GA	Nat	QA
239	16.44	26.85	1.85	8213.96	1.68	52	145	ST	0.51	293,33	5	17,36	N	4	Seo	GA	Nat	QA
240	12.89	24.54	1.91	7643.48	1.54	53	123	QA	0.38	225,97	4	16,69	N	4	Seo	GA	Nat	QA
241	229.8	109.62	2.02	48485.49	4.05	76.29	1968	LA	2.48	626,02	6	39,55	N	4	Tem	GA	Nat	LA
242	230.86	112	2.06	42172.77	3.58	73	1516	LA	2.81	779,04	5	36,05	N	4	Seo	GA	Nat	LA
243	210.14	101.94	1.97	36236.70	3.71	68.26	1355	ST	4.65	589,05	5	78,95	N	4	Tem	GA	Nat	ST
244	204.46	140.24	2.75	63886.19	3.07	76.39	1965	SU	6.72	847,77	5	79,27	N	4	Seo	GA	Nat	QA
245	53.26	59.02	2.26	23786.51	0.76	64.58	186	QA	11.84	1362	6	86,94	N	4	Tem	GA	Nat	QA
246	9.37	25.98	2.38	8131.11	0.93	45	86	QA	0.68	382,80	6	17,86	N	4	Seo	GA	Nat	QA
247	13.44	33.25	2.54	10340.22	1.04	51	120	QA	0.05	60,37	7	9,11	N	4	Tem	GA	Nat	QA
248	448.43	146.42	1.94	61322.76	1.45	71.83	899	QA	0.19	118,48	6	16,40	N	4	Seo	GA	Nat	QA
249	448.48	158.22	2.09	61185.72	2.54	71.02	1563	QA	2.87	958,89	7	29,96	N	4	Seo	GA	Nat	QA
250	179.32	87.54	1.83	20663.41	2.43	63.89	512	QA	1.32	501,72	5	26,34	N	4	Seo	GA	Nat	QA
251	7.2	14.84	1.55	3899.35	0.56	50	32	QA	2.18	694,62	4	31,38	N	4	Seo	GA	Nat	QA
252	19.86	29.49	1.85	8977.29	1.82	51	172	QA	8.38	1010	5	82,98	Y	4	Tem	AS	Nat	QA
253	19.84	25.69	1.61	7008.12	2.95	51	216	QV	5.25	778,58	3	67,45	Y	4	Per	GA	Nat	QV
254	19.74	25.97	1.64	7295.97	4.93	50	369	QV	5.20	585,85	8	88,73	N	4	Seo	GA	Nat	QV
255	8.66	14.73	1.40	3686.49	10.01	47	369	QV	2.85	505,25	16	56,49	N	4	Seo	GA	Nat	QV
256	9.43	19.01	1.73	4530.72	6.29	46	285	QV	0.93	342,38	11	27,17	N	4	Seo	GA	Nat	QV
257	24.45	38.89	2.20	10020.66	6.34	37	641	QV	3.47	490,75	3	70,66	N	4	Seo	GA	Nat	QV
258	259.87	95.62	1.66	38635.23	2.73	63.81	1064	BJ	1.68	394,48	5	42,61	N	4	Seo	GA	Nat	QV
259	33.13	33.87	1.65	9705.38	3.91	58.02	392	QV	72.93	1820,35	1	400,66	N	4	Seo	GA	Nat	QV
260	6.75	13.97	1.51	2489.18	9.12	36	234	QV	0.18	158,28	5	11,29	N	4	Seo	GA	Nat	QV
261	193.07	105.92	2.13	40800.42	2.85	58.88	1173	SU	0.37	368,24	1	10,06	N	4	Seo	GA	Nat	QV
262	16.84	28.15	1.92	8189.43	1.58	38	135	SU	0.36	186,12	7	19,30	N	4	Seo	GA	Nat	SU
263	106.21	62.1	1.69	22894.73	4.82	57.87	1110	SU	1.64	521,15	1	31,38	N	4	Seo	GA	Nat	SU
264	71.01	53.25	1.77	20016.05	5.05	53.94	1018	SU	2.90	976,78	3	29,72	N	4	Seo	GA	Nat	SU
265	6.43	13.5	1.49	1842.24	1.25	38	23	SU	3.31	694,18	2	47,74	N	4	Tem	GA	Nat	SU
266	33.33	36.01	1.75	12717.46	4.56	54.01	585	SU	0.55	234,14	1	23,62	N	4	Seo	GA	Nat	SU
267	39.68	49.54	2.20	20151.30	3.63	51.86	735	BJ	2.58	435,08	2	59,32	N	4	Tem	GA	Nat	SU
268	11.96	16.69	1.35	5536.82	5.51	36	311	BJ	6.87	1330,16	0	51,65	N	4	Seo	GA	Nat	SG
269	18.15	33.86	2.23	10850.93	3.73	36	405	BJ	32.17	1720,35	2	186,97	N	4	Seo	GA	Nat	SG
270	31.19	27.07	1.36	10175.25	6.78	44.83	697	BJ	8.90	547,20	3	162,66	N	4	Seo	GA	Nat	SG
271	304.62	96.09	1.54	40939.10	3.86	58.12	1588	BJ	49.57	1204,96	10	411,40	N	4	Seo	GA	Nat	SG
272	11.74	15.91	1.30	4609.84	10.48	39	483	BJ	47.97	2114,60	2	226,87	N	4	Seo	GA	Nat	QA
273	26.62	27.4	1.49	8812.41	9.62	104.1	848	QA	71.49	2480,39	7	288,21	N	4	Seo	GA	Nat	QA
274	229.96	110.57	2.04	48080.18	3.85	67.73	1849	BJ	103.82	3856,87	6	269,19	N	4	Seo	GA	Nat	QA
275	66.77	43.63	1.50	18000.08	5.92	56.45	1075	BJ	15.02	1047,33	2	143,38	N	4	Tem	GA	Nat	QA
276	163.69	94.99	2.08	40496.50	3.65	62.23	1485	BJ	56.73	2554,79	5	222,05	N	4	Tem	GA	Nat	SG
277	19.79	25.05	1.58	6402.06	9.17	37	594	BJ	2.82	448,38	5	62,97	N	4	Tem	GA	Nat	SG
278	16.79	24.52	1.68	6367.49	9.28	36	599	SS	5.56	637,32	9	87,19	N	4	Tem	GA	Nat	SG
279	101.52	71.72	1.99	28762.65	4.72	60.42	1363	SS	12.70	798,31	5	159,11	Y	4	Per	GA	Nat	SG
280	13.56	22.26	1.69	6840.07	2.32	39	165	SS	10.61	1529,02	8	69,37	N	4	Per	GA	Nat	SG
281	65.01	48.93	1.70	21089.07	3.05	59.11	649	SS	176.91	4772,88	6	370,65	N	4	Per	GA	Nat	SG
282	16.2	25.27	1.76	7909.42	4.10	37	330	SS	8.13	946,12	10	85,98	N	4	Per	GA	Nat	SG
283	521.86	161.03	1.97	60904.22	3.54	70.38	2164	ST	17.32	822,51	6	210,57	N	4	Per	GA	Nat	SG
284	157.85	66.54	1.48	24398.00	6.47	55.59	1589	SU	28.85	1584,32	3	182,08	Y	4	Per	GA	Nat	SU
285	68.29	49.5	1.68	16354.71	7.72	56.1	1271	SU	15.57	1805,46	8	86,25	Y	4	Per	GA	Cha	SU
286	14.41	23.64	1.74	7792.81	7.94	36	628	SS	7.59	747,27	5	101,60	N	4	Per	AS	Nat	SG
287	32.26	33.49	1.65	12400.01	5.30	58.85	666	SS	18.76	1227,32	4	152,87	N	4	Per	AS	Nat	SG
288	793.31	175.85	1.75	83019.70	2.55	60.87	2126	SU	142.34	4550,82	4	312,78	Y	4	Per	AS	Nat	SG
289	127.74	63.7	1.58	22960.35	3.33	51.2	772	SU	42.03	1845,48	5	227,76	Y	4	Per	AS	Nat	QA
290	98.31	54.14	1.53	18734.66	3.39	51.24	645	SS	7.11	456,58	11	155,75	N	4	Per	AS	Nat	QA
291	9.27	17.02	1.57	4368.58	1.24	35	62	QA	8.55	916,17	7	93,32	N	2	Per	AS	Nat	QA
292	8.13	15.1	1.48	3938.47	1.57	36	70	QA	12.61	837,14	6	150,63	N	2	Tem	AS	Nat	QA
293	274.39	134.08	2.27	53433.44	2.54	52.51	1367	QA	22.36	1138,42	4	196,39	Y	2	Per	AS	Nat	QA
294	166.81	92.13	2.00	35165.92	2.21	58.19	785	QA	9.62	1047,96	4	91,76	N	2	Per	AS	Nat	QA
295	33.53	37.66	1.82	11910.41	1.08	62.08	137	QA	8.38	794,38	9	105,45	N	2	Seo	AS	Nat	QA
296	30.97	44.18	2.22	17002.85	1.95	62.57	336	QA	5.23	932,89	10	56,11	N	2	Seo	AS	Nat	QA
297	33.46	31.98	1.55	11097.70	1.67	63.52	191	QA	3.83	916,25	8	41,78	N	2	Tem	AS	Nat	QA
298	46.16	58.26	2.40	21272.71	0.48	63.44	107	QA	7.61	1050,50	9	72,44	N	2	Tem	AS	Nat	QA
299	9.37	17.5	1.60	4073.80	2.53	36	107	QA	3.96	551,71	3	71,69	N	2	Tem	AS	Nat	QA
300	10.56	20.28	1.75	5200.57	1.83	38	101	QA	0.56	116,54	4	47,89	N	2	Seo	AS	Nat	QA
301	136.59	66.4	1.59	30169.64	2.53	65.04	767	QA	20.96	1097,94	2	190,87	N	2	Tem	AS	Nat	QA
302	82.32	47.58	1.47	17240.25	4.05	70.08	705	QA	2.37	586,13	3	40,47	N	2	Tem	AS	Nat	QA
303	292.36	113.73	1.86	54053.41	3.57	70.52	1935	QA	5.20	833								

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
311	9.55	19.31	1.75	6377.08	1.62	56	110	QA	2.94	908.81	6	32,33	N	2	Seo	AS	Nat	QA
312	20.16	28.88	1.80	9082.89	1.93	43	182	QA	5.19	951.65	4	54,52	N	2	Seo	AS	Nat	QA
313	11.66	19.18	1.57	4256.33	2.68	46	120	QA	9.35	1466,37	5	63,75	N	2	Seo	AS	Nat	QA
314	148.76	87.62	2.01	37091.48	4.00	77.15	1482	SU	18.83	1551,60	3	121,35	N	2	Tem	AS	Nat	QA
315	19.13	26.35	1.69	5940.51	1.95	54	116	QA	4.16	1033,74	4	40,26	N	2	Seo	AS	Nat	QA
316	189.48	89.89	1.83	35416.42	3.86	85.34	1374	QA	20.75	1430,64	4	145,03	N	2	Per	AS	Nat	QA
317	7.01	16.77	1.77	3433.00	2.30	52	79	QA	0.32	286,56	5	11,29	N	2	Seo	AS	Nat	QA
318	36.59	34.77	1.61	13540.27	3.94	91.47	534	SU	10.60	1609,20	3	65,90	N	2	Per	AS	Nat	QA
319	19.99	31.11	1.95	8920.11	1.40	41	131	QV	5.68	993,63	3	57,16	N	2	Per	AS	Nat	QV
320	16.14	26.83	1.87	8269.61	1.11	43	98	QV	89.69	3163,28	4	283,53	N	2	Seo	AS	Nat	QA
321	181.9	80.84	1.68	32967.04	4.25	87.43	1407	SU	18.85	1555,27	1	121,22	Y	2	Per	AS	Nat	QA
322	47.73	50.22	2.04	17363.58	3.55	94.35	624	QV	37.06	1806,84	1	205,10	N	2	Seo	AS	Nat	QV
323	19.33	29.65	1.89	10392.65	3.44	84.81	364	QA	28.30	1839,39	1	153,86	N	2	Seo	AS	Nat	QA
324	58.85	49.78	1.82	19491.65	3.32	94.26	653	QA	37.84	984,44	1	384,39	N	2	Tem	AS	Nat	QA
325	239.39	104.06	1.88	38653.41	3.58	92.02	1391	SU	9.38	1404,27	7	66,78	N	2	Per	AS	Nat	QA
326	36.4	31.18	1.45	8210.48	1.61	45	137	QV	1.22	416,67	3	29,23	N	2	Tem	AS	Nat	QA
327	16.57	26.89	1.85	8247.85	3.37	55	286	QV	4.15	663,14	2	62,61	N	2	Per	AS	Nat	QV
328	18.3	28.93	1.89	8330.91	3.08	56	263	QV	3.96	599,56	1	66,13	N	2	Per	AS	Nat	QV
329	69.82	57.37	1.92	20548.99	3.78	95.04	783	SU	5.30	661,23	2	80,13	N	2	Tem	AS	Nat	QA
330	124.88	103.49	2.59	47771.92	2.49	88.39	1194	SU	1.31	350,23	0	37,47	N	2	Tem	AS	Nat	QA
331	42.5	40.93	1.76	15097.36	3.67	101.6	560	QA	9.26	988,48	0	93,70	N	2	Tem	AS	Nat	QA
332	11.15	22.98	1.93	7131.85	2.72	50	200	QA	1.54	461,65	1	33,33	N	2	Tem	AS	Nat	QA
333	6.58	14.29	1.56	3363.08	0.86	52	36	QA	1.75	501,59	1	34,97	N	2	Tem	AS	Nat	QA
334	60.86	65.37	2.35	24986.34	4.46	95.49	1122	SU	15.88	1281,07	2	123,97	N	2	Per	AS	Nat	QA
335	252.26	105.66	1.86	39521.44	3.52	89.42	1401	SU	1.56	287,09	2	54,34	N	2	Per	AS	Nat	QA
336	12.55	22.1	1.75	6349.45	7.98	51	514	QA	10.48	806,42	1	129,97	N	2	Seo	AS	Nat	QA
337	27.22	25.74	1.38	8711.58	9.01	98.74	793	SU	3.95	652,20	4	60,57	N	2	Seo	AS	Nat	QA
338	17.67	22.88	1.52	6479.10	11.70	52	764	SU	4.16	775,85	12	53,64	N	2	Seo	AS	Nat	QA
339	7.26	12.76	1.33	3186.29	15.06	53	489	SU	3.75	999,68	9	37,51	N	2	Seo	AS	Nat	SU
340	314.81	109.19	1.72	46889.27	3.18	90.52	1496	BJ	5.07	739,34	10	68,55	N	2	Tem	AS	Nat	SU
341	552.5	133.77	1.59	60201.54	2.46	90.04	1487	BJ	9.94	1645,87	2	60,42	N	2	Tem	AS	Nat	QA
342	17.56	25.88	1.73	6850.49	3.42	53	250	QA	1.79	513,78	7	34,83	N	2	Seo	AS	Nat	QA
343	12.72	30.64	2.41	9780.10	6.26	44	619	QA	1.06	502,30	8	21,14	N	2	Seo	AS	Nat	QA
344	5.71	14.03	1.64	2009.68	14.23	43	300	QA	1.34	645,21	15	20,83	N	2	Seo	AS	Nat	QA
345	17.67	21.81	1.45	6400.96	4.09	42	268	SU	0.65	533,45	2	12,24	N	2	Seo	AS	Nat	SU
346	558.64	160.05	1.90	63190.12	2.05	88.09	1303	SU	6.07	1096	3	55,36	N	2	Tem	AS	Nat	QA
347	38.12	55.81	2.53	17306.86	2.47	101.3	437	QA	3.80	896,78	1	42,32	N	2	Seo	AS	Nat	QA
348	30.07	37.27	1.90	10558.55	2.72	104.9	294	QA	1.10	547,47	2	20,12	N	2	Seo	AS	Nat	QA
349	13.64	21	1.59	5767.28	8.60	35	505	BJ	1.24	347,03	10	35,66	N	2	Seo	AS	Nat	SG
350	34.92	36.47	1.73	11174.14	4.43	103.2	504	LH	0.93	382,11	2	24,24	N	2	Seo	AS	Nat	LH
351	35.78	48.2	2.26	17972.44	1.46	114.8	273	QA	1.08	455,52	4	23,78	N	2	Seo	AS	Nat	QA
352	14.54	22.69	1.67	7254.03	2.12	0	161	QA	0.92	375,44	6	24,55	N	2	Seo	AS	Nat	QA
353	6.52	13.46	1.48	3425.19	2.98	0	107	QA	0.84	429,77	5	19,48	N	2	Seo	AS	Nat	QA
354	54.48	47.08	1.79	15355.02	1.51	111	247	QA	0.45	201,20	6	22,29	N	2	Seo	AS	Nat	QA
355	13.65	21.85	1.66	5824.65	1.39	36	90	QA	0.98	368,53	5	26,49	N	2	Seo	AS	Nat	QA
356	23.79	26.94	1.55	9013.13	9.96	34	905	QA	34.59	1785,58	3	193,73	N	2	Per	AS	Nat	QA
357	15	21	1.53	6847.55	11.57	38	805	QA	3.59	493,23	16	72,81	N	2	Tem	AS	Nat	SU
358	12	20	1.62	6454.57	11.12	36	737	LH	2.27	403,71	16	56,19	N	2	Tem	AS	Nat	SU
359	13	17	1.31	4139.81	11.40	35	482	LH	6.36	910,98	8	69,86	N	2	Tem	AS	Nat	SU
360	13	20	1.60	5264.55	11.47	38	615	LH	3.21	775,06	12	41,39	N	2	Tem	AS	Nat	SU
361	21	32	1.96	11530.35	8.44	39	983	LH	3.80	618,17	17	61,42	N	2	Tem	AS	Nat	SU
362	48	43	1.71	12800.36	7.17	108.1	926	QA	4.94	648,13	2	76,16	N	2	Tem	AS	Nat	QA
363	15	22	1.62	5527.75	2.95	38	175	QA	1.29	567,80	3	22,79	N	2	Seo	AS	Nat	QA
364	35	33	1.59	10565.69	2.19	111.3	242	LH	1.55	385,21	3	40,20	N	2	Seo	AS	Nat	LH
365	40.97	57.59	2.52	17025.49	1.42	108.2	251	LH	8.15	911,72	6	89,42	N	2	Seo	AS	Nat	QA
366	306.99	142.28	2.27	29665.56	1.95	78.61	589	LH	25.32	949,40	3	266,70	N	2	Per	AS	Nat	QA
367	16.61	30.64	2.11	8648.02	0.57	98.99	61	QA	1.56	371,35	2	41,91	N	2	Tem	AS	Nat	QA
368	220.49	94.08	1.77	31184.92	0.46	86.45	157	QA	16.52	1409,31	2	117,22	N	2	Seo	AS	Nat	QA
369	21.56	34.56	2.08	11527.97	0.62	36	82	QA	9.63	1235,29	3	77,99	N	2	Per	AS	Nat	QA
370	65.17	51.12	1.77	15391.61	0.86	97.46	143	QA	3.74	746,05	2	50,16	N	2	Seo	AS	Nat	QA
371	54.29	57.86	2.20	16894.56	0.94	102	169	QA	13.62	1222,51	1	111,39	N	2	Per	AS	Nat	QA
372	115.14	93.2	2.43	37055.75	1.99	102.1	747	QA	20.75	1078,18	3	192,48	N	2	Per	AS	Nat	QA
373	101.83	62.91	1.75	23977.19	2.70	105.2	655	QA	1.94	438,72	1	44,29	N	2	Tem	AS	Nat	QA
374	25.67	39.77	2.20	18169.59	3.46	102.2	637	QA	1.24	267,12	3	46,44	N	2	Seo	AS	Nat	QA
375	34.44	38.81	1.85	14559.32	3.99	104.5	589	QA	1.86	434,15	3	42,89	N	2	Per	AS	Nat	QA
376	23.23	32.77	1.90	12177.56	4.26	102.9	528	QA	4.16	631,87	5	65,80	N	2	Seo	AS	Nat	QA
377	24.62	30.25	1.71	10674.42	5.71	102.9	617	QA	3.38	725,23	3	46,61	N	2	Seo	AS	Nat	QA
378	17.29	23.02	1.55	7377.01	9.81	55	730	QA	2.32	264,80	1	87,57	N	2	Tem	AS	Nat	QA
379	10.69	18.01	1.54	4468.25	18.40	56	829	QA	2.56	527,77	3	48,52	N	2	Seo	AS	Nat	QA
380	14.93	17.89	1.30	5627.54	15.90	54	906	SU	0.72	385,96	9	18,53	N	2	Seo	AS	Nat	SU
381	9.04	13.25	1.23	2939.23	29.02	37	864	SU	2.15	568,70	6	37,76	N	2	Seo	AS	Nat	SU
382	38.32	32.57	1.47	12286.11	11.00	99.87	1362	SU	2.47	367,14	16	67,31	N	2	Seo	AS	Nat	SU
383	24.01	26.78	1.53	7556.68	17.96	93.65	1367	SU	12.83	862,14	13	148,86	N	2	Seo	AS	Nat	SU
384	16.35	17.95	1.24	4743.26	28.55	38	1369	SU	4.47	448,95	12	99,52	N	2	Seo	AS	Nat	SU
385	14.12	20.24	1.51	6160.70	22.21	39	1377	SU	1.73	509,15	15	33,91	N	2	Seo	AS	Nat	SU
386	13.58	17.09	1.30	4626.76	28.18	39	1316	SU	1.48	444,45	16	33,26	N	2	Seo	AS	Nat	SU
387	8.31	14.08	1.37															

Characteristics of Watersheds									Characteristics of Wetlands									
N.	WA	WP	WS	WM	WO	WP	WH	WG	EA	EL	EH	EW	SC	HT	FT	SE	MO	DG
394	8.4	15.87	1.53	2351.57	1.02	46	31	QA	36.65	1073.48	3	341.43	Y	4	Per	GA	Cha	QA
395	7.29	11.22	1.16	2084.36	24.18	46	520	QA	5.88	1021.62	7	57.56	N	4	Seo	GA	Nat	QA
396	5.38	11.24	1.36	1864.20	7.67	37	147	QA	2.41	570.43	10	42.17	N	4	Seo	GA	Nat	QA
397	8.88	17.99	1.69	4578.15	2.34	38	113	QA	7.60	946.84	9	80.22	N	4	Seo	GA	Nat	QA
398	10.5	18.88	1.63	3262.47	1.10	39	42	SU	0.83	207.26	6	40.26	N	4	Seo	GA	Nat	QV
399	7.68	16.17	1.63	3065.99	2.12	38	42	QA	9.95	1117.56	1	89.07	N	2	Per	AS	Nat	QA
400	6.35	14.14	1.57	2375.07	25.85	36	620	TV	2.71	651.69	7	41.54	N	2	Seo	RS	Nat	QA
401	6.62	12.42	1.35	1770.32	21.01	36	372	TV	10.22	1270.49	3	80.46	N	2	Seo	RS	Nat	QA
402	7.37	12.58	1.30	1232.24	35.14	35	437	TV	5.47	905.18	4	60.40	N	2	Seo	RS	Nat	QA
403	9.04	15.56	1.45	5676.37	0.33	37	26	QA	2.27	712.22	3	31.92	Y	2	Per	RS	Nat	QA
404	9.37	17.91	1.64	3783.44	0.50	34	26	QA	14.50	2183.07	3	66.44	Y	2	Per	RS	Nat	QA
405	5.42	12.44	1.50	1456.01	1.58	32	27	QA	12.82	1372.88	5	93.38	Y	2	Per	RS	Nat	QA
406	1068.49	214.49	1.84	73764.05	1.48	89.12	1100	SU	34.26	1596.97	3	214.54	N	2	Per	ASIO	Nat	QA
407	25.99	25.11	1.38	7419.49	6.02	34	455	QA	1.53	640.65	5	23.88	N	2	Seo	ASIO	Nat	QA
408	137.41	65.45	1.56	20966.80	7.10	102.1	1495	SU	12.65	571.59	3	221.29	N	2	Tem	ASIO	Nat	QA
409	15.38	23.15	1.65	7384.09	2.83	43	216	SU	1.08	332.91	2	32.59	N	2	Tem	ASIO	Nat	QA
410	46.65	42.31	1.73	12581.12	12.03	96.65	1520	SU	14.20	875.37	4	162.22	N	2	Per	ASIO	Nat	BL
411	16.96	22.72	1.54	5646.86	20.37	45	1157	SU	1.98	559.63	6	35.46	N	2	Per	ASIO	Nat	BL
412	19.34	29.05	1.85	9115.20	16.53	68.51	1512	SU	8.08	786.80	6	102.66	Y	2	Per	ASIO	Nat	BL
413	43.43	38.56	1.64	11573.85	12.49	104.1	1453	BJ	2.21	624.60	9	35.42	Y	2	Per	ASIO	Nat	BL
414	19.55	20.3	1.29	6233.96	8.21	45	521	BJ	6.35	778.49	6	81.59	N	2	Per	ASIO	Nat	BL
415	54.33	39.02	1.48	12865.27	10.24	77.41	1323	BJ	9.80	950.61	8	103.10	N	2	Per	ASIO	Nat	BL
416	137.67	67.57	1.61	14781.07	7.52	81.12	1122	BJ	81.57	2041.12	3	399.61	Y	2	Per	ASIO	Nat	SG
417	16.81	21.64	1.48	5682.21	11.32	45	652	SU	3.20	504.15	3	63.40	N	2	Per	ASIO	Nat	BL
418	14.27	21.15	1.57	4061.23	11.55	45	496	SU	1.87	260.56	17	71.65	Y	2	Tem	ASIO	Nat	BL
419	91.84	214.62	6.27	24287.44	2.72	86.71	668	SU	26.21	1216.25	6	215.52	Y	2	Per	ASIO	Nat	BL
420	39.13	33.53	1.50	9660.40	5.17	77.79	508	SU	9.17	799.30	10	114.69	N	2	Tem	ASIO	Nat	BL
421	18.98	29.15	1.87	7834.98	6.33	56	501	SU	0.80	195.09	4	40.94	N	2	Tem	ASIO	Nat	BL
422	97.89	67.36	1.91	23413.54	4.34	76.98	1020	SU	12.22	1272.62	4	96.03	Y	2	Tem	ASIO	Nat	BL
423	111.03	74.03	1.97	30025.36	4.26	48.47	1286	SU	5.18	642.51	6	80.67	Y	2	Seo	ASIO	Nat	BL
424	109.99	87.62	2.34	31141.66	4.27	83.04	1335	SU	3.20	465.93	5	68.67	N	2	Seo	ASIO	Nat	BL
425	20.9	27.6	1.69	7938.29	5.77	20.11	465	SU	5.78	579.57	3	99.81	N	2	Seo	ASIO	Nat	BL
426	65.84	65.31	2.25	23166.47	3.67	71.26	856	SU	8.43	1070.03	7	78.74	N	2	Seo	ASIO	Nat	BL
427	12.27	20.02	1.60	5728.73	7.82	54	450	SU	12.68	967.37	6	131.05	N	2	Seo	ASIO	Nat	BL
428	135.14	81.19	1.96	31797.82	4.75	96.9	1516	SU	25.55	1446.64	4	176.65	N	2	Tem	ASIO	Nat	BL
429	16.54	32.58	2.24	10465.71	5.89	96.9	624	SU	6.72	856.78	7	78.44	N	2	Seo	ASIO	Nat	BL
430	142.36	76.58	1.80	29390.36	4.38	99.77	1296	SU	9.57	1188.17	9	80.54	N	2	Tem	ASIO	Nat	BL
431	58.53	48.07	1.76	16226.67	5.45	58.04	891	SU	6.73	678.78	16	99.19	N	2	Seo	ASIO	Nat	BL
432	19.4	25.44	1.62	7058.29	8.37	56	591	SU	17.23	1523.12	17	113.11	N	2	Seo	ASIO	Nat	BL
433	45.24	43.7	1.82	12125.14	5.76	74.86	707	SU	12.30	814.19	16	151.07	N	2	Seo	ASIO	Nat	BL
434	11.71	18.3	1.50	6773.44	8.55	34	587	SU	2.61	683.62	15	38.25	N	2	Seo	ASIO	Nat	BL
435	7.54	16.76	1.71	4130.30	13.58	35	570	SU	1.06	308.19	13	34.38	N	2	Seo	ASIO	Nat	BL
436	9.12	19.82	1.84	4859.26	11.79	36	581	SU	4.02	698.53	14	57.60	Y	2	Per	ASIO	Nat	BL
437	11.92	17.66	1.43	4405.40	12.76	37	567	SU	7.17	1070.72	13	66.99	N	2	Seo	ASIO	Nat	BL
438	10.29	14.54	1.27	2990.44	21.27	38	636	SU	5.44	623.80	16	87.22	N	2	Seo	ASIO	Nat	BL
439	10.93	19.72	1.67	4579.72	11.01	35	504	SU	2.74	396.81	16	69.05	N	2	Seo	ASIO	Nat	BL
440	10.02	17.47	1.55	5499.48	8.87	34	492	SU	19.86	1594.35	16	124.57	Y	2	Per	ASIO	Nat	SG
441	5.17	10.2	1.26	901.73	88.72	33	806	BJ	12.43	754.99	7	164.59	Y	2	Per	ASIO	Nat	SG
442	50.5	36.85	1.45	13265.59	6.05	55.12	810	BJ	0.85	272.99	8	31.21	Y	2	Tem	ASIO	Nat	SG
443	4.48	9.92	1.31	783.68	48.62	32	387	SU	24.21	1511.85	7	160.16	N	2	Per	ASIO	Nat	SG
444	76.1	44.43	1.43	16499.45	4.87	72.76	810	SU	6.97	505.58	10	137.82	N	2	Per	ASIO	Nat	SG
445	52.54	40.15	1.55	17409.55	4.35	93.61	829	QA	1.95	522.62	15	37.31	N	2	Seo	ASIO	Nat	QA
446	165.66	69.7	1.52	25408.11	3.43	76.13	879	SU	16.40	1310.37	8	125.17	N	2	Per	ASIO	Nat	QA
447	8.53	15.9	1.52	3500.51	15.37	35	544	QA	1.57	463.86	4	33.86	N	2	Seo	ASIO	Nat	QA
448	79.73	51.32	1.61	19309.50	3.94	87.2	766	QA	1.12	202.71	7	55.23	N	2	Seo	ASIO	Nat	QA
449	13.7	18.04	1.36	3774.41	14.84	37	565	SU	0.45	154.93	5	28.73	N	2	Per	ASIO	Nat	QA
450	4.38	11.08	1.48	966.92	8.27	32	86	SU	0.44	212.78	3	20.79	N	2	Seo	ASIO	Nat	QA
451	140738.84	3668.28	2.7	882432.94	0.41	110.7	3657	QA	555	7659.32	4	724.60	Y	2	Per	AS	Nat	SG