DESCRIPTION OF THE EARTH IN THE WORKS OF
ARABIC GEOGRAPHERS FROM IX TO XII CENTURY

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Abstract. The works of Arabic writers provide data about shape, position and size of the
Earth, planets and zodiac signs. They include preserved maps of Ibn Haukal, Al-Masudi
and Al-Idrisi. Al-Masudi (871-956/7) made a map of the world and wrote that the Earth
is round, before the Christians in Europe were ready to accept that idea. The famous
geographer and cartographer Al-Idrisi (IX/X., died in 903/913.) has lived on the court of
Norman king Roger II of Sicily, and after his death on the court of his son William I on
Sicily, where he obtained the data from European and Arabic geographers. On the basis
of this data he wrote a work known entitled Roger’s book. Besides this important work he
made a celestial globe and a map of the world in the shape of a silver disk. The lines that
marked the borders of seven regions of the inhabited world were engraved on this disk. The
Arabs had excellent knowledge of Greek astronomy and accepted their division of the world
in seven climatic zones.

First Arabic maps were made according to the map of Ptolemy, a classical astro-
nomer, geographer and mathematician from Alexandria. During the reign of Theo-
dosius and Justinian, the interpretation that the Earth is round and that it repre-
sents only a small part of the Universe was forbidden. Early medieval Arabic writers
included in their maps of the world the Arabic lands in Asia and North Africa, than
Byzantine Empire, lands of Franks, Gals, Langobards, land of Slavs, Russians, Bul-
gars, Turks, Alans, Hazars, as well as lands from Persia to India and China. For
them, well known part of the world ended with the Atlantic Ocean, ie. West Sea and
the Pacific, ie. Big Sea. Idrisi, Ibn Rosteh, Ibn Haukal and Al-Masudi gave a division
on seven climatic zones.

Ibn Rosteh, Abū ‘Ali Ahmed ibn Umar ibn Rosta Isfahani, (IX/X century, died
in 903/913.), is a Persian geographer who wrote in Arabic.¹ In his work Kitab al-
'âlāk An-Nafisa VII he gave a particularly beautiful description of Constantinople,
Byzantine provinces, the land of Slavs, Bulgars, Russians and Khazars.² He probably
wrote from 290-300/903-13. From his detailed work, which could be classified in short

encyclopedia of history and geography, it can be seen that the author was very well educated and talented in writing. In the first chapters he deals with the shape of the Earth, signs of the zodiac, planets, position of the Earth and its size. He further on deals with mathematics and astronomical geography, and cites his sources. A description of the Earth, nations and roads follows after introduction. Ibn Rosteh wrote that the Earth is a sphere and that the Ocean takes up to 24,000 miles, in other words that it is a big circle, a diameter of approximately 7,636 miles, and that there are exactly 21,600 towns in the world.

**Al-Istakhri,** Abu Ishak Ibrahim ibn Muhamad al-Farisi al-Istakhri, (X century, born around 900) was famous only for one of his works. He wrote mostly about Islamic lands and the Mediterranean with a description of added maps (fig. 1). His work Kitāb al-masālik wa’l mamālik (The Book of roads and kingdoms), can be dated only on the basis of the described events about 950/1 (934). It has become very popular. There are few early and shortened editions, as well as a translation to Persian, that are quite different.

**Ibn Haukal,** Abu'l-Kasim ibn 'Ali al-Nasibi (ibn Mumamad ?) ibn Haukal, (X century, died after 977.) is an Arabic geographer and chronicler. He was born in Nisibis (Nasibin) in Mesopotamia. By request of Al-Istakhri, he has edited his geographical maps, enlarged the text, and published it under his name in 976/7 under the title Al-Masālik w’al-Mamālik (Roads and kingdoms), known also under the title Kitāb Sūrat al-ard (The Book about description of the Earth). Ibn Haukal was the best representative of geographers that wrote on the basis of their own trips and direct observations. His descriptions were precise and very useful for travelers. The map Sūrat al-Ardh (Picture of the Earth), includes detailed description of Muslim Spain, Italy, Byzantine Empire (fig. 2). With this map he gave a description of Kiev, mentioned the road of Volga Bulgars and Khazars. The main difference between the work of Ibn Haukal and Al-Istakhri is that he describes Islamic lands of West Europe and North Africa. The authors did not copy maps, but they made them independently. Ibn Haukal, in contrast to his predecessor, has added a description of a map in the chapter about each region. Besides Ibn Haukal’s work published by M. J. De Goeje in 1873., we know of one more abridged edition of an anonymous author from 1233.

**Al-Masudi,** Abul Hasan Ali ibn Husain Ali al-Masudi, (IX/X century, 871-956/7.) has introduced a thematic method of writing by Arabs. Instead of writing about events in chronological order, he has grouped them around dynasties, kings and nations. He was born in Baghdad, where he spent his youth. He was one of the most educated Arabs of his time. Al-Masudi knew history, geography, astronomy, zoology and sciences related to Islam. Searching for a new knowledge he left his native town for a trip through Asiatic and African countries to the east and Spain on the west. In the book Kitāb at-Tanbih wa’l –Ischrāf he has explained his philosophy about minerals, plants and animals. Unfortunately, only a part of this book is preserved.

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In one part of this work he mentions Christian authors that he knew and comments their works. He made a map of the world and wrote that the Earth is round, before the Christians in Europe were ready to accept that idea (fig. 5). He wrote the encyclopedia of the world history, Akhbār az-zānīn (History of time) in thirty volumes, but there is only one that is preserved in Vienna. There is one incomplete copy of this work, prepared by Burkgardt, in the library of St. Sofia in Istanbul, which consists of 20 big volumes. At the beginning of this work it can be seen that at least 10 copies are missing. In Bodleian library in Oxford there is a manuscript, supposed to be one volume of Al-Masūdī’s history. He has prepared an addition under the title Kitāb al-Awsat in which he explained historical events in chronological order. History of time has come to us in abridged edition under the title Murūj adh-dhahab wa ma‘ādin al-jawāhir (Golden meadows and mines of precious stones). According to the words of the author the work got this name because it includes traditions, history and all other fields of science. For the first time one Arabic author has combined history and geography in his work. He has used at least sixty five written sources for this historical-geographical work including, as an addition to the Arabic text, a translation of Plato, Aristotle and Ptolemy. The first edition of this book was edited in 943., than he has finished a new one in Basra in 947. and the last one in 956.

**Al-Idrīsī**, Abu ‘Abdallah Muhammad ibn Muhammad ibn ‘Abdallah ibn Idrīs (middle of XII century, 1099–1100-1164/5/6), the best known Arabic geographer, was born in Ceuta, as a son of Spanish-Arabic parents. After studies in Cordova, in Muslim Spain, he spent several years traveling through North Africa, Middle East, Europe, and arrived to Palermo in 1138., invited by the king of Sicily. He was famous geographer and cartographer on the court of Norman king Roger II of Sicily, and after his death of his son, William I. His work Kitāb nuzhat al-muṣqat fi iḥṭiraq al-āfaq was ordered by the king. He wrote on the basis of the data of observers that were sent from different countries and on the basis of the impressions from his own trips. Besides this important work, he has constructed a celestial sphere and a map of the world in the shape of a silver disk for his sponsor Roger II (fig. 3,6). There are lines engraved on the disk, that marked the borders of seven regions of the inhabited world. Barons from Sicily have raised against William in 1169, and burned many documents and books including new Latin edition of Idrīsī’s book. The map and the silver disk disappeared. His book was the first geographical work edited in Europe in 1154. (1192?), under the title Kitāb nuzhat al-Muṣqat fī dhīkhr al-umsār wa-l-aqrār wa-l-buldān wa-l-maḍā‘in wa-l-āfaq (The book for those who want to read descriptions of metropolis, regions, countries, islands, towns and regions). It was included in the catalog as De geographia universalis, but without a text in Latin. It is known under the title Al-Kitāb al-Rudjar (Roger’s book), because it was written

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12Al-Idrīsī, *Kitāb Nuzhat al-Muṣqat fī iḥṭiraq al-Āfaq*, Beirut 1989; In Latin title was *Oblectatio disiderantis in descriptione civitatum principalium et tractum et provinciarum et insularum et urbium et plagiarum mundi* (Rome: Typographia Medici, 1952). B. Baldi has translated it on Italian in 1600., and incomplete edition is now at the University in Montpellier.
Figure 1: Al-Istakhri’s world map.

Figure 2: Ibn Haukal’s world map, oriented with South at the top.

Figure 3: Al-Idrisi’s Tabula Rogeriana, oriented with South at the top.

Figure 4: Ibn Haukal’s world map, Mediterranean area only.

Figure 5: Mas’udi’s world map, reconstruction.

Figure 6: Al-Idrisi’s world map, oriented with South at the top.
The medieval Arabic astronomers wrote that the Earth is round, before the Christians in Europe were ready to accept that idea. They have preserved the works of Greek astronomers during Dark Ages.

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