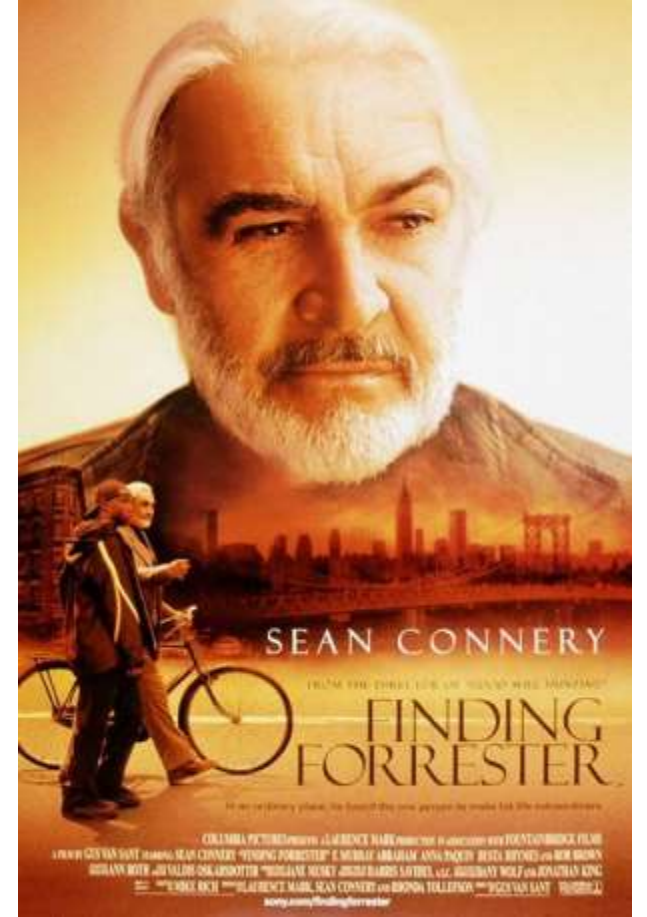
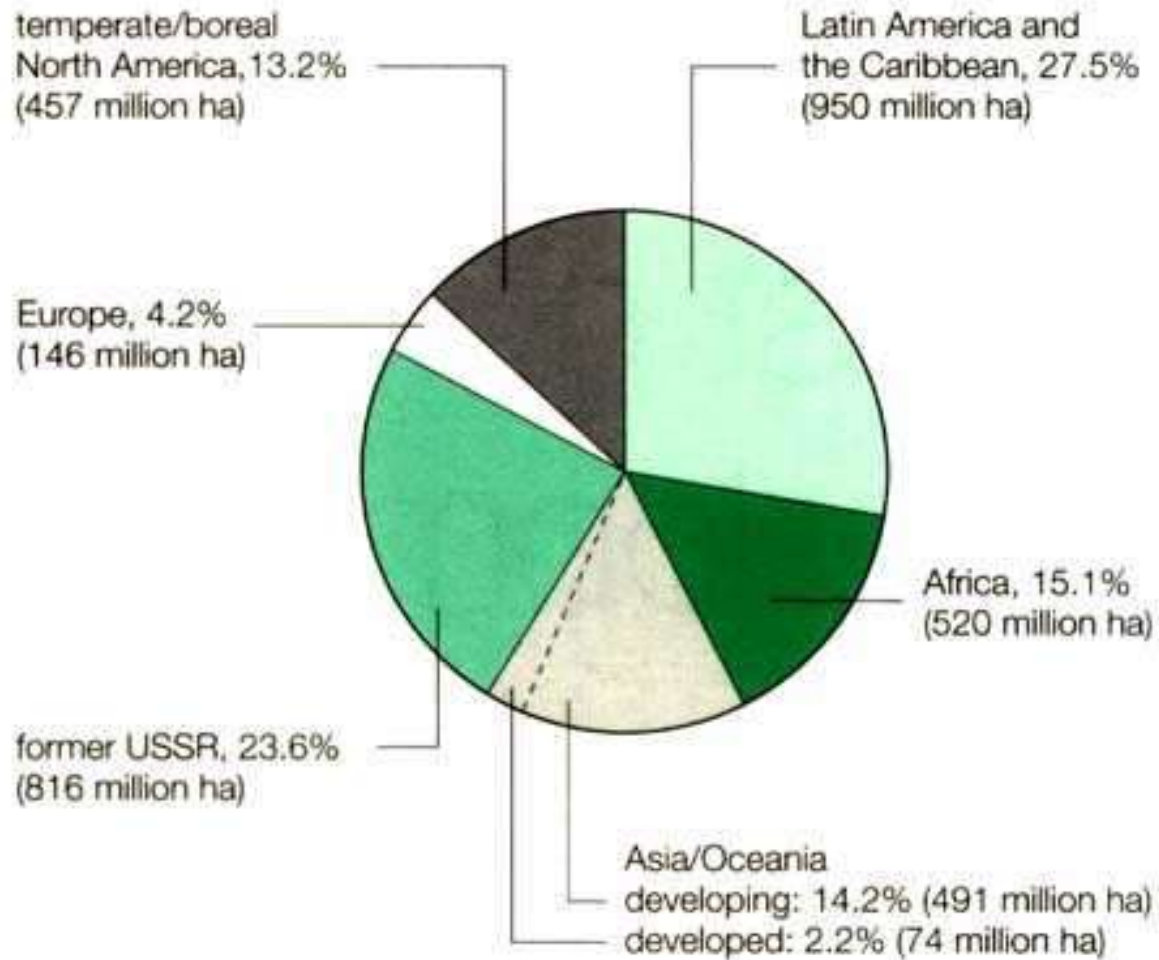


III. ORMANCILIK



Kıtalarda önemli ormancılık ülkeleri

Forestry by country	
Africa	Angola · Chad · Ethiopia · Gabon · Ghana · Uganda
Americas	Argentina · United States
Asia	Bangladesh · Bhutan · India · Japan · Laos · Pakistan · Syria
Europe	Poland · Russia · United Kingdom
Oceania	Australia · New Zealand



1995: total area = 3 454 million ha:

developed countries: 1493 million ha;

developing countries: 1961 million ha

percentage of
world forest area

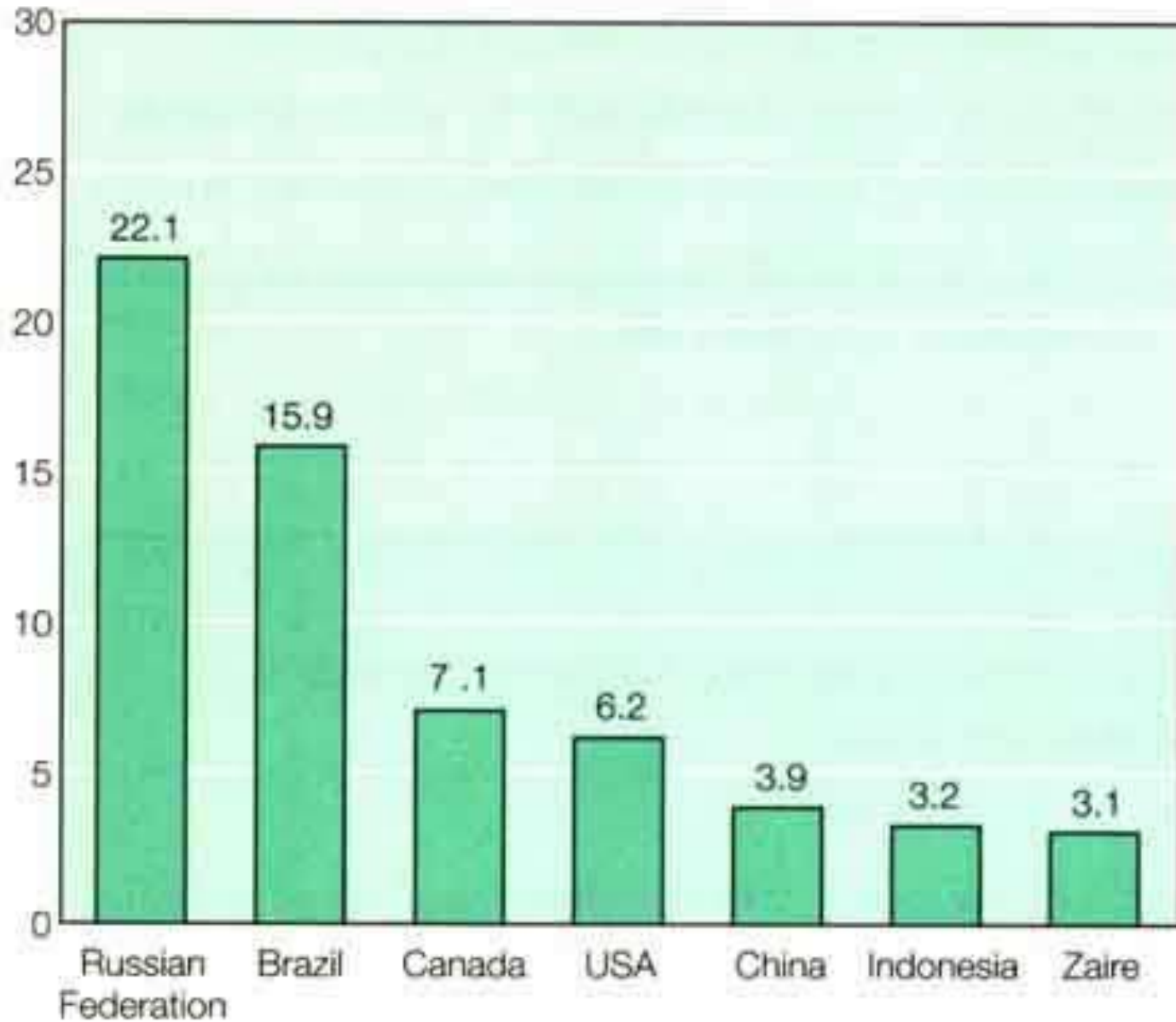
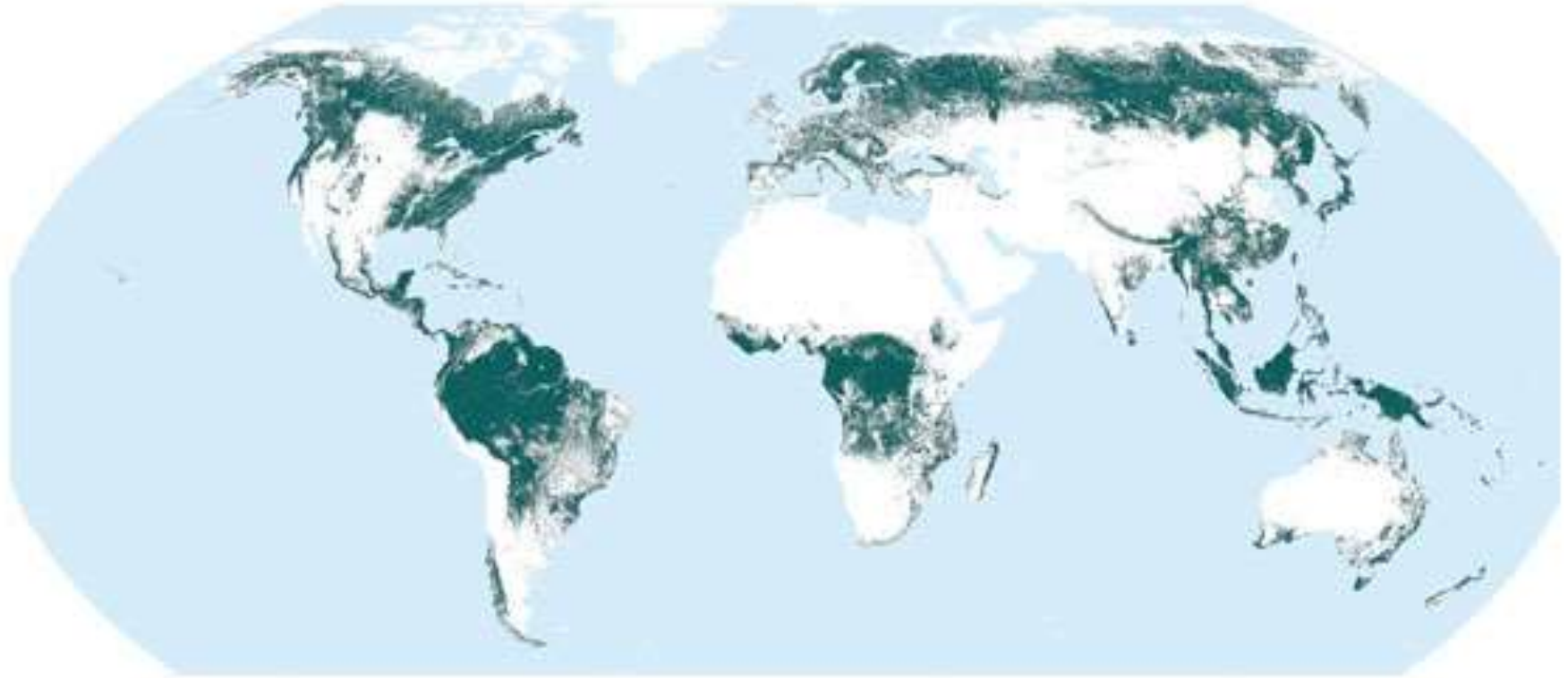


FIGURE 1
The world's forests

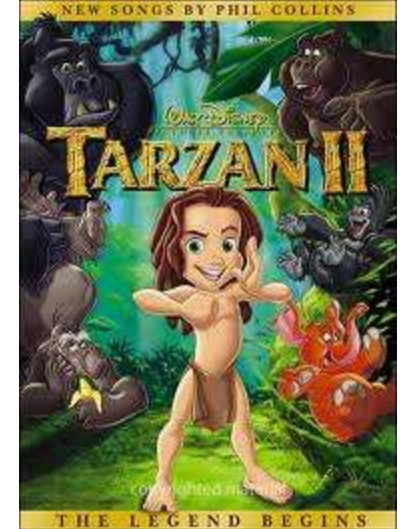


- Forest (> 10 percent tree cover)
- Other land
- Water

Note: Tree cover derived from MODIS VCF* 250 meter pixels for year 2005.

* Moderate-resolution Imaging Spectroradiometer Vegetation Continuous Fields (Hansen et al. 2010).

Yiyecek, Baharat ve İlaçlar





Yakıt



İnşaat malzemesi



Kağıt ve diđer selüloz malzemeleri



Av hayvanlarının korunması



Su üretimi



24.11.2019

Arş. Gör. Onur ÇALIŞKAN



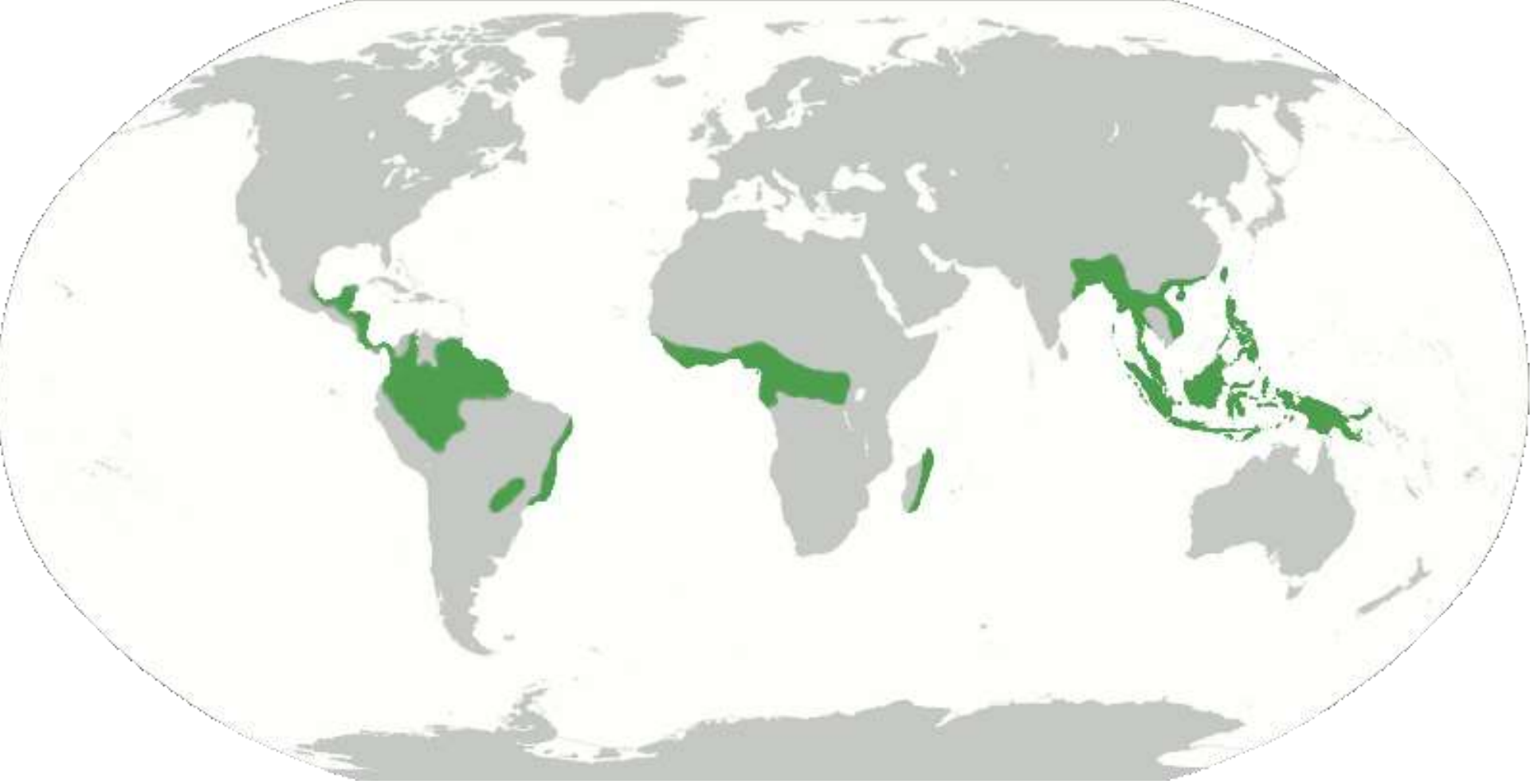
Manzara ve dinlenme



1. DÜNYANIN ANA ORMAN KUŞAKLARI

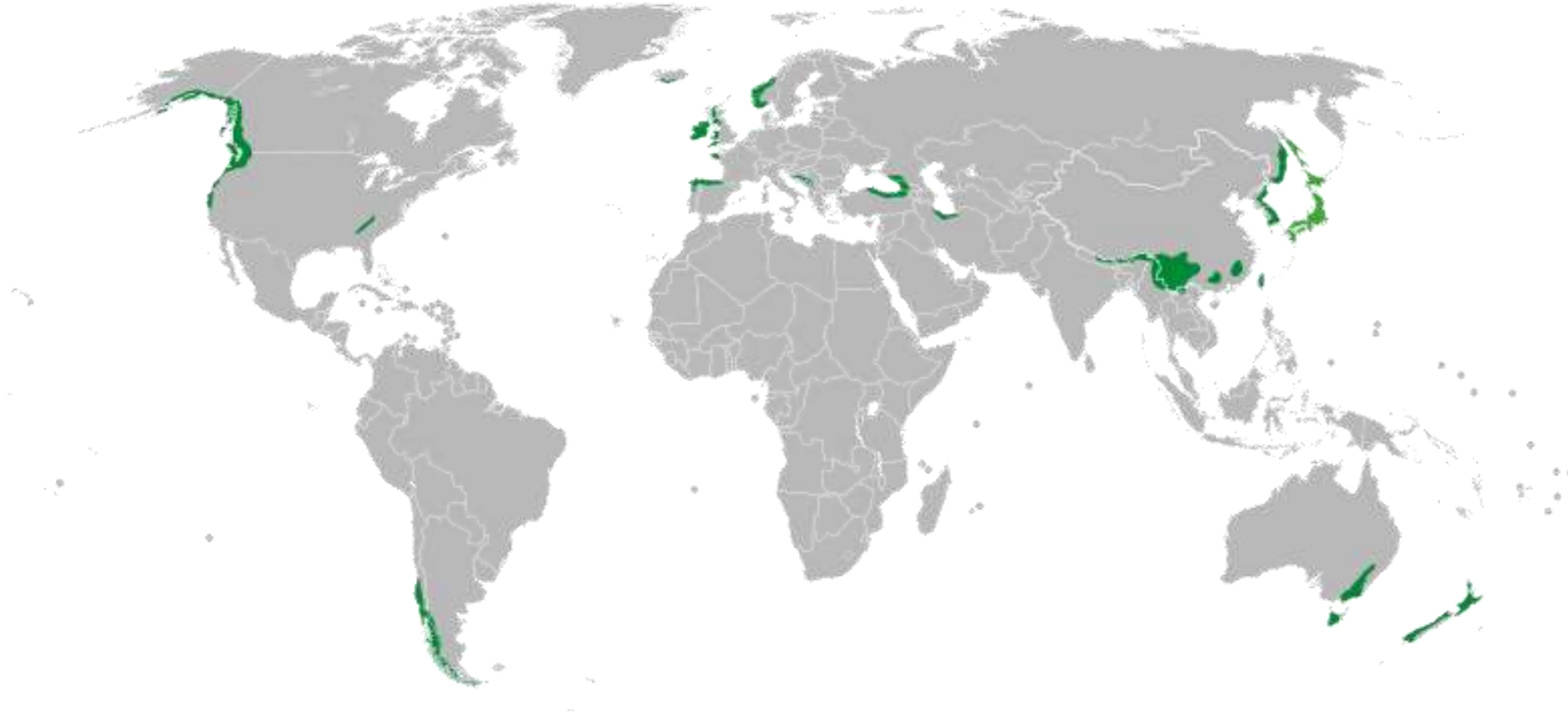
- Yağmur ormanları (tropikal ve ılıman)
- Tayga
- Ilıman sert ormanlar
- Tropikal kurak ormanlar

Yağmur ormanları (tropikal)





Yağmur ormanları (orta kuşak)





Tayga





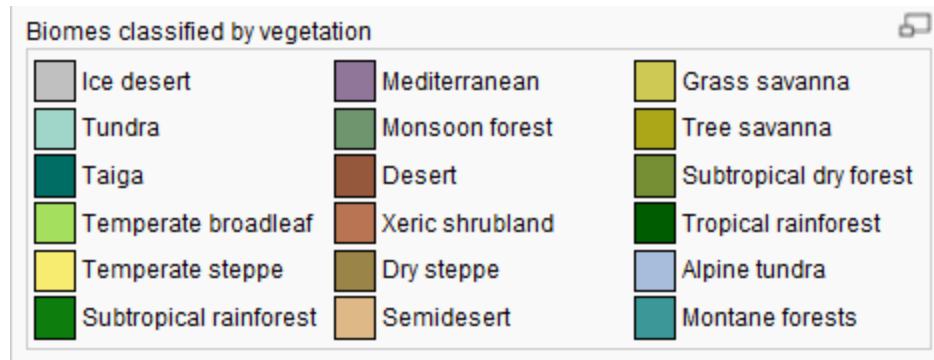
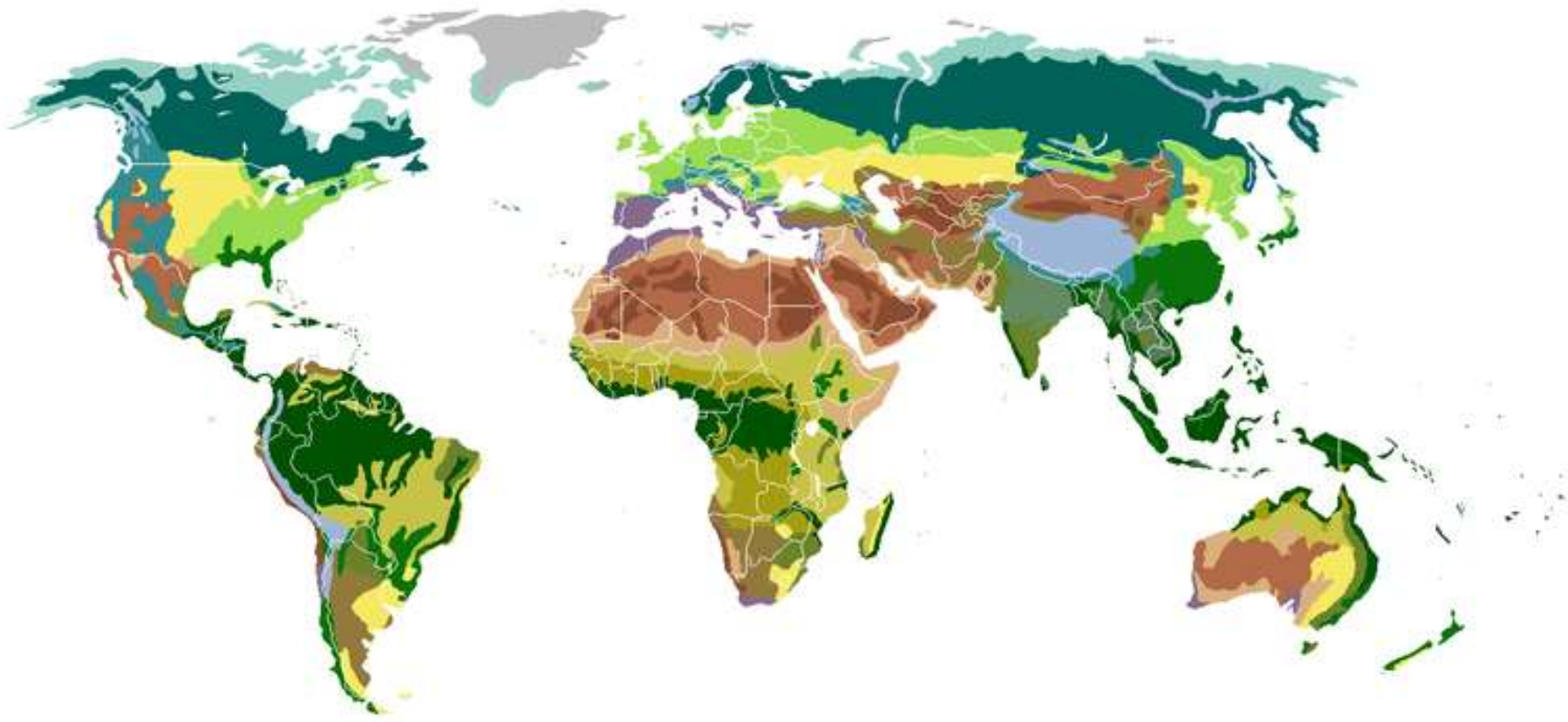
Orta kuşak karışık ormanlar



24.11.2019

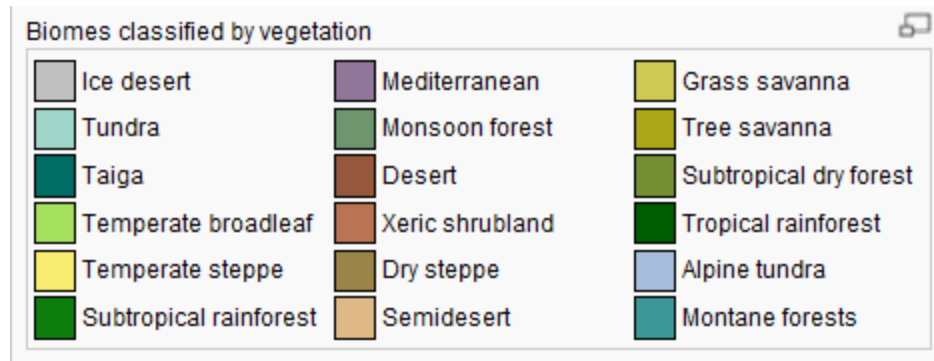
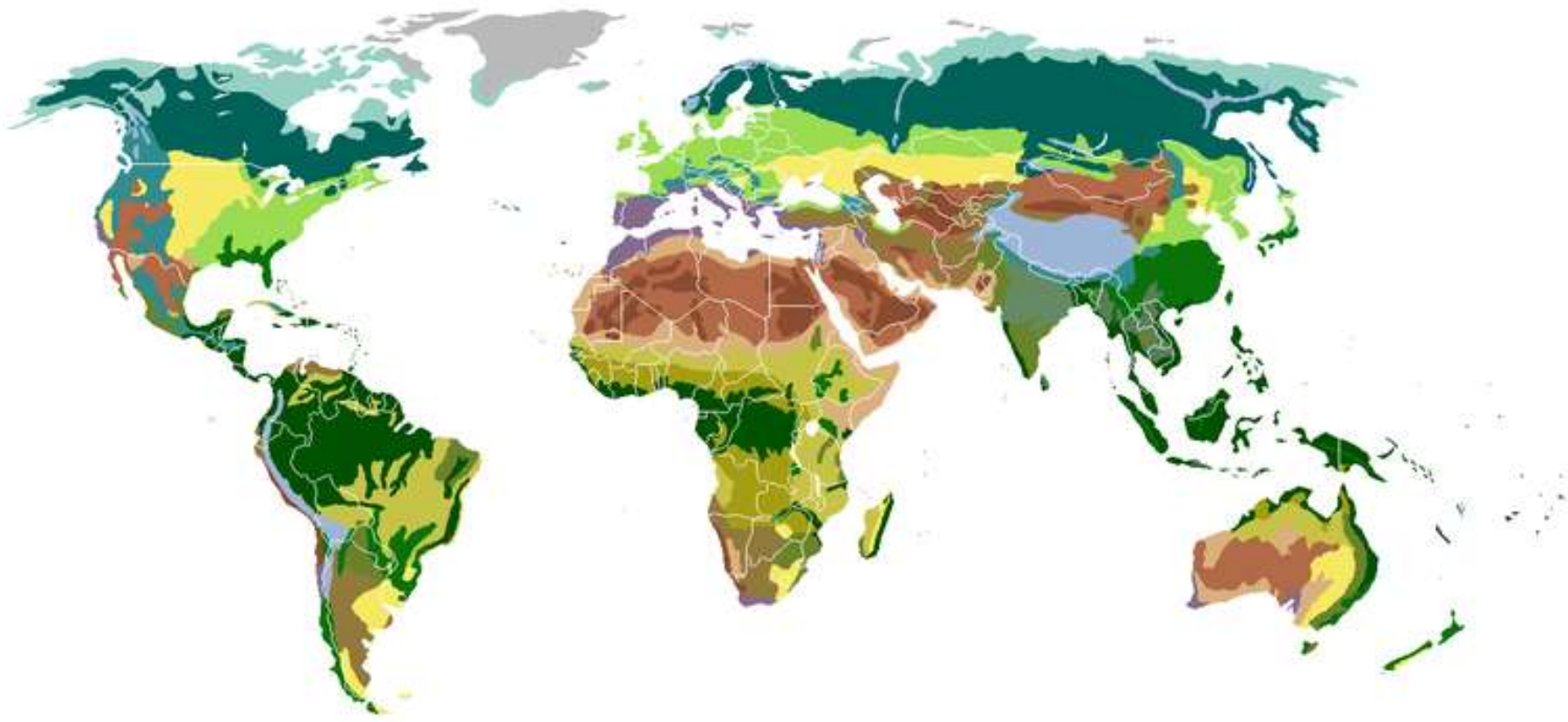
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Tropikal kurak (karışık) ormanlar





2. KERESTECİLİK





countries**share of forest plantations (percent)****in area****in industrial wood
production**

Argentina	2.2	60
Brazil	1.2	60
Chile	17.1	95
New Zealand	16.1	93
Zambia	0.5	50
Zimbabwe	0.4	50

Area of plantations in developing countries with the largest forest plantation estate

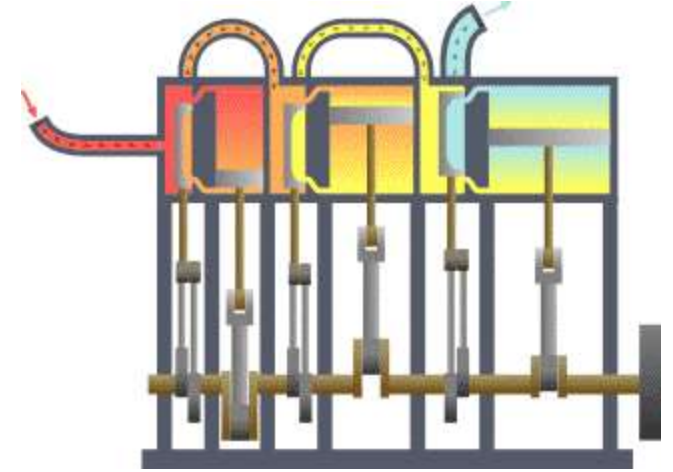
countries	net estimated area^a (thousand ha)
China	33 800
India	14 620
Indonesia	6 125
Brazil	4 900
Viet Nam	1 470
Republic of Korea	1 400
Chile	1 015
Argentina	547
Thailand	529
Morocco	321
Bangladesh	310
Myanmar	276
Venezuela	253
Cuba	245
Philippines	203

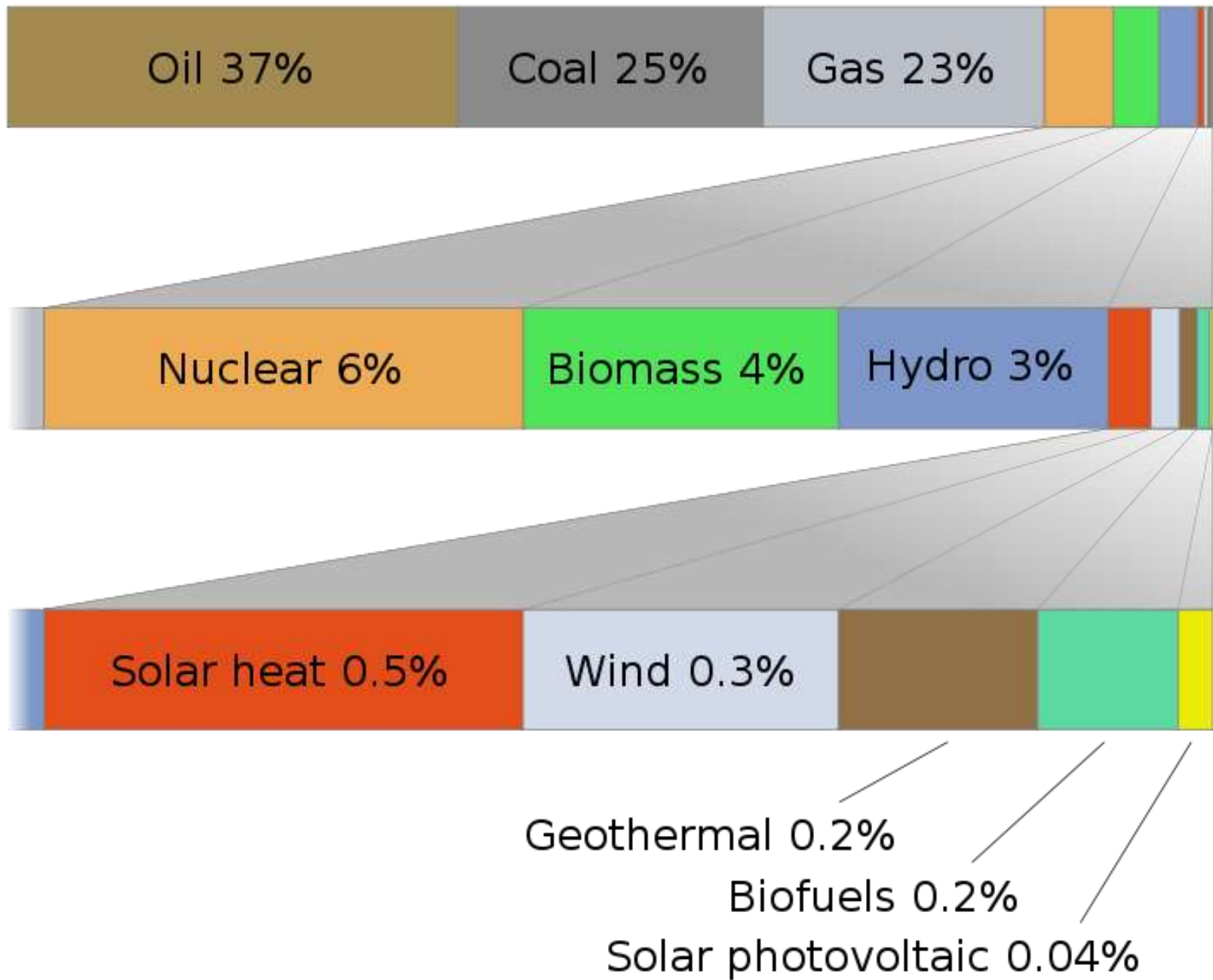
3. DENİZCİLİKTE KULLANILAN MALZEMELER, REÇİNE ve MANTAR ÜRETİMİ

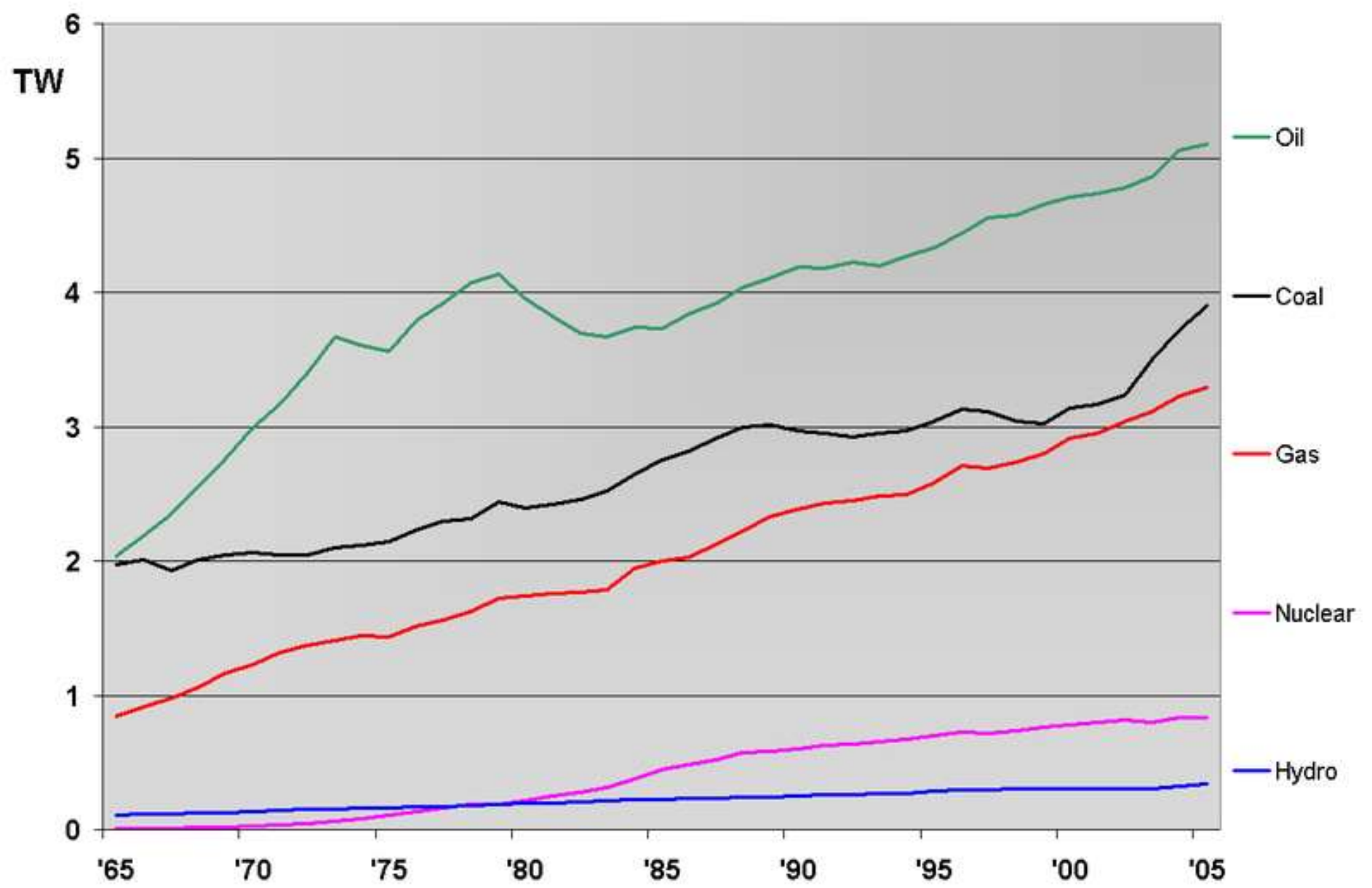


BÖLÜM IV

ENERJİ KAYNAKLARI

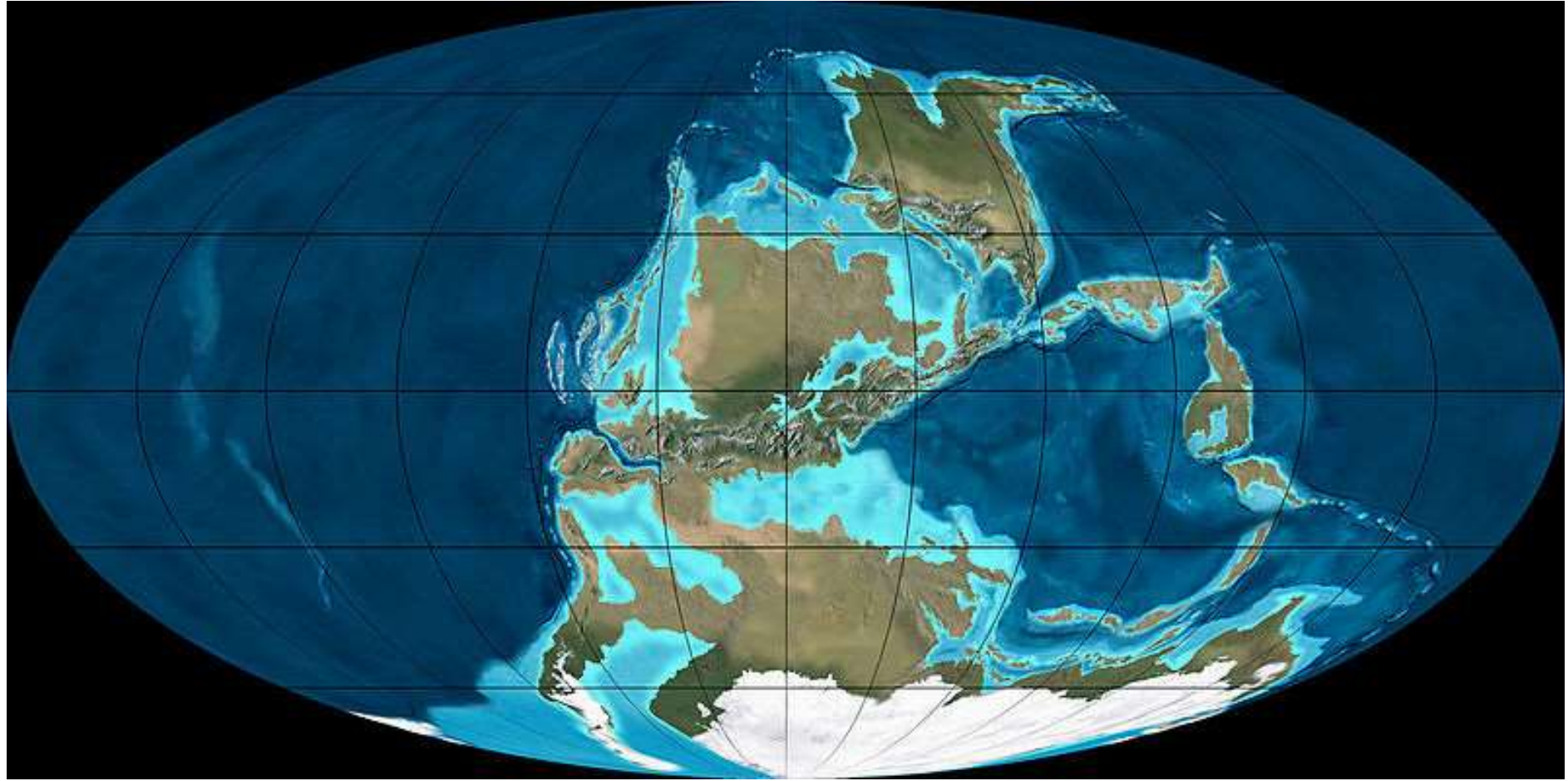






I. TÜKENEBİLİR ENERJİ KAYNAKLARI

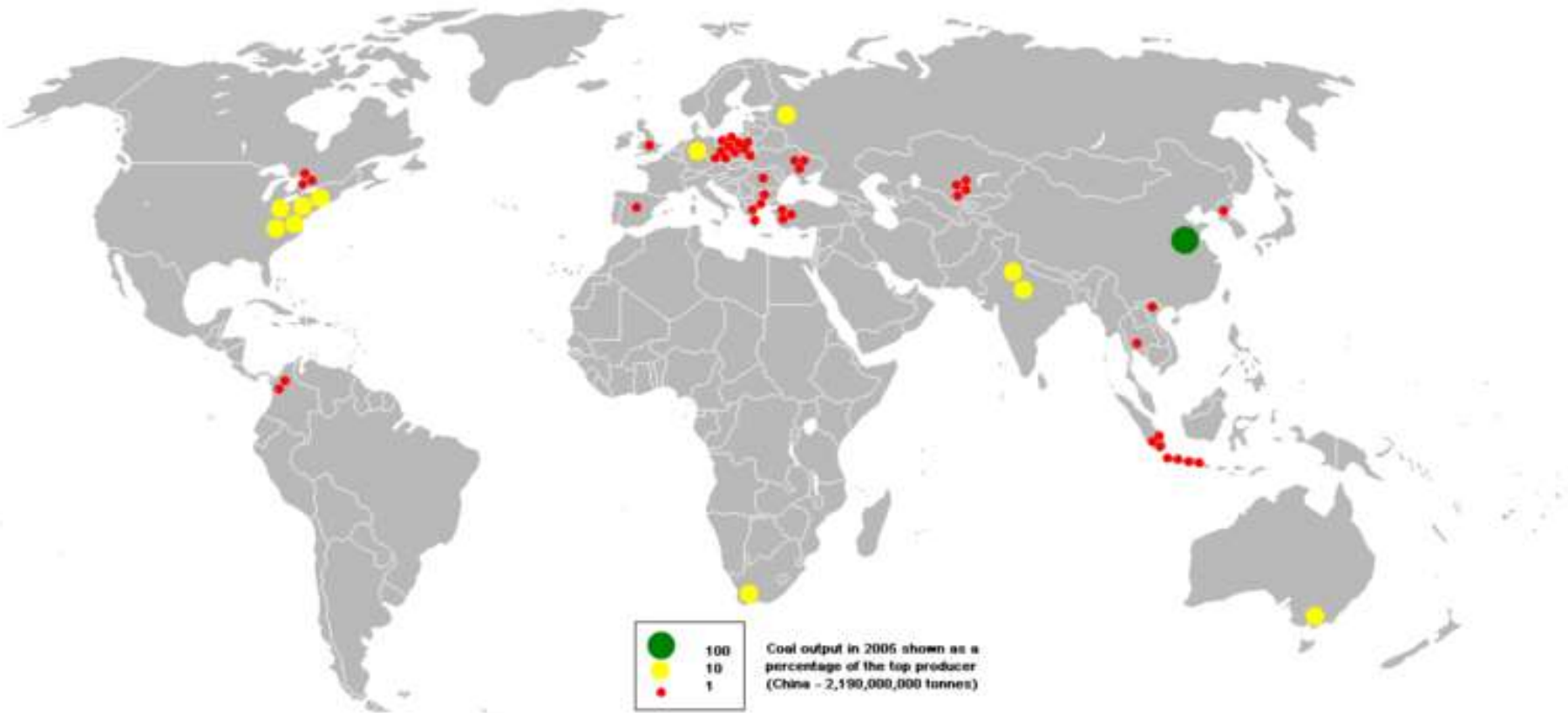
1. KÖMÜR





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Proved recoverable coal reserves at end-2008 (million tons (teragrams))^[70]

Country	Bituminous & Anthracite	SubBituminous	Lignite	TOTAL	Percentage of World Total
<u>United States</u>	108,501	98,618	30,176	237,295	22.6
<u>Russia</u>	49,088	97,472	10,450	157,010	14.4
<u>China</u>	62,200	33,700	18,600	114,500	12.6
<u>Australia</u>	37,100	2,100	37,200	76,500	8.9
<u>India</u>	56,100	0	4,500	60,600	7.0
<u>Germany</u>	99	0	40,600	40,699	4.7
<u>Ukraine</u>	15,351	16,577	1,945	33,873	3.9
<u>Kazakhstan</u>	21,500	0	12,100	33,600	3.9
<u>South Africa</u>	30,156	0	0	30,156	3.5
<u>Serbia</u>	9	361	13,400	13,770	1.6
<u>Colombia</u>	6,366	380	0	6,746	0.8
<u>Canada</u>	3,474	872	2,236	6,528	0.8
<u>Poland</u>	4,338	0	1,371	5,709	0.7
<u>Indonesia</u>	1,520	2,904	1,105	5,529	0.6
<u>Brazil</u>	0	4,559	0	4,559	0.5
<u>Greece</u>	0	0	3,020	3,020	0.4

<u>Bosnia and Herzegovina</u>	484	0	2,369	2,853	0.3
<u>Mongolia</u>	1,170	0	1,350	2,520	0.3
<u>Bulgaria</u>	2	190	2,174	2,366	0.3
<u>Pakistan</u>	0	166	1,904	2,070	0.3
<u>Turkey</u>	529	0	1,814	2,343	0.3
<u>Uzbekistan</u>	47	0	1,853	1,900	0.2
<u>Hungary</u>	13	439	1,208	1,660	0.2
<u>Thailand</u>	0	0	1,239	1,239	0.1
<u>Mexico</u>	860	300	51	1,211	0.1
<u>Iran</u>	1,203	0	0	1,203	0.1
<u>Czech Republic</u>	192	0	908	1,100	0.1
<u>Kyrgyzstan</u>	0	0	812	812	0.1
<u>Albania</u>	0	0	794	794	0.1
<u>North Korea</u>	300	300	0	600	0.1
<u>New Zealand</u>	33	205	333-7,000	571-15,000 ^[71]	0.1
<u>Spain</u>	200	300	30	530	0.1
<u>Laos</u>	4	0	499	503	0.1
<u>Zimbabwe</u>	502	0	0	502	0.1
<u>Argentina</u>	0	0	500	500	0.1
All others	3 421	1 346	846	5 613	0.7

Production of Coal by Country and year (million tonnes) ^{[72][73][74]}									
Country	2003	2004	2005	2006	2007	2008	2009	Share	Reserve Life (years)
China	1722.0	1992.3	2204.7	2380.0	2526.0	2782.0	3050.0	45.6 %	38
USA	972.3	1008.9	1026.5	1053.6	1040.2	1062.8	973.2	15.8 %	245
India	375.4	407.7	428.4	447.3	478.4	521.7	557.6	6.2 %	105
EU	638.0	628.4	608.0	595.5	593.4	587.7	536.8	4.6 %	55
Australia	351.5	366.1	378.8	385.3	399.0	401.5	409.2	6.7 %	186
Russia	276.7	281.7	298.5	309.2	314.2	326.5	298.1	4.3 %	500+
Indonesia	114.3	132.4	146.9	195.0	217.4	229.5	252.5	3.6 %	17
South Africa	237.9	243.4	244.4	244.8	247.7	250.4	250.0	3.6 %	122
Germany	204.9	207.8	202.8	197.2	201.9	192.4	183.7	2.6 %	37
Poland	163.8	162.4	159.5	156.1	145.9	143.9	135.1	1.7 %	56
Kazakhstan	84.9	86.9	86.6	96.2	97.8	111.1	101.5	1.5 %	308
Total World	5,187.6	5,585.3	5,886.7	6,195.1	6,421.2	6,781.2	6,940.6	100 %	119

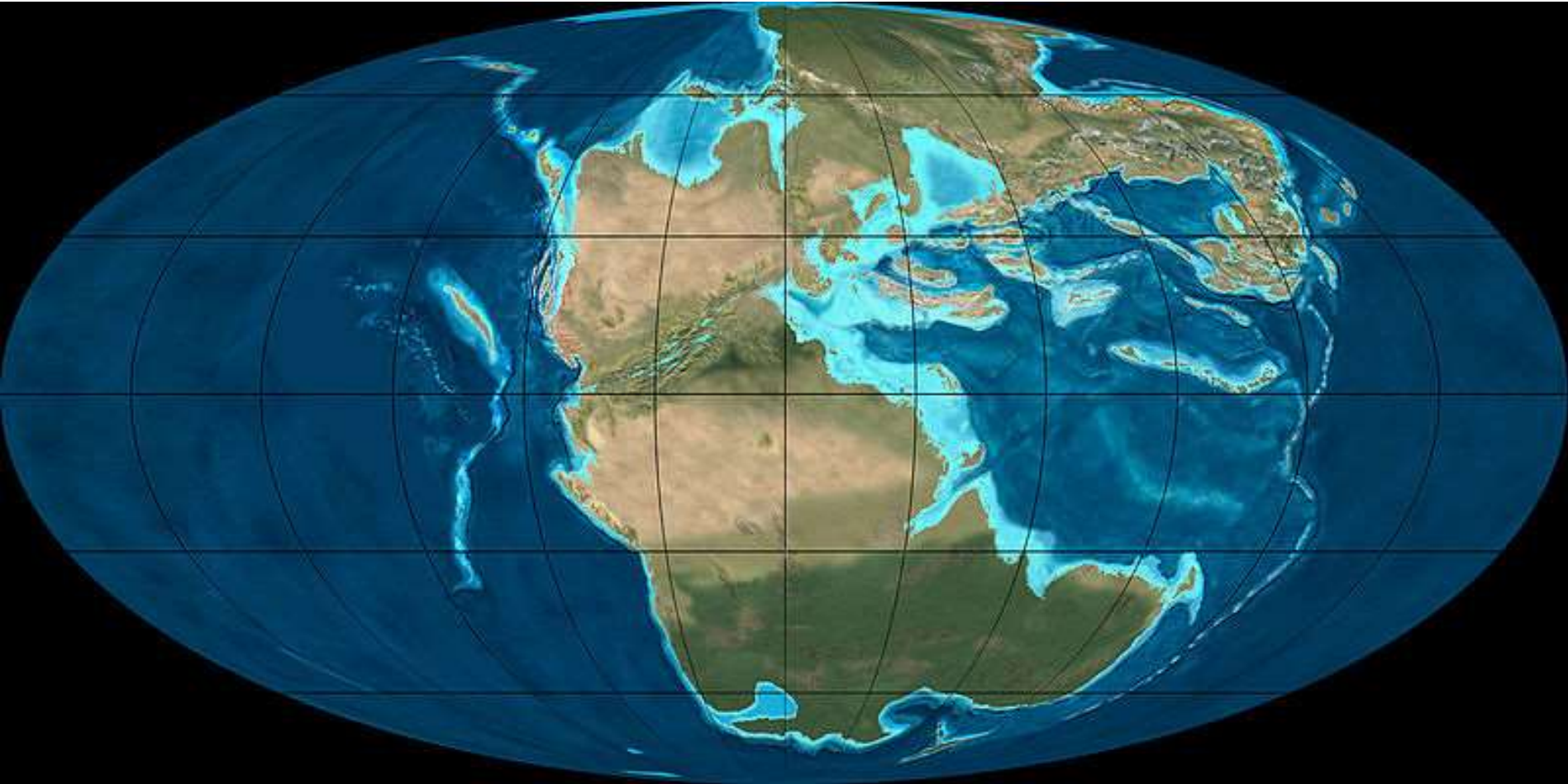
Exports of Coal by Country and year (million short tons)^{[75][76][77]}

Country	2003	2004	2005	2006	2007	2008	2009	Share
Australia	238.1	247.6	255.0	255.0	268.5	278.0	288.5	26.5%
Indonesia	107.8	131.4	142.0	192.2	221.9	228.2	261.4	24.0%
Russia	41.0	55.7	98.6	103.4	112.2	115.4	130.9	12.0%
Colombia	50.4	56.4	59.2	68.3	74.5	74.7	75.7	6.9%
South Africa	78.7	74.9	78.8	75.8	72.6	68.2	73.8	6.8%
USA	43.0	48.0	51.7	51.2	60.6	83.5	60.4	5.5%
China	103.4	95.5	93.1	85.6	75.4	68.8	38.4	3.5%
Canada	27.7	28.8	31.2	31.2	33.4	36.5	31.9	2.9%
Vietnam	6.9	11.7	19.8	23.5	35.1	21.3	28.2	2.6%
Kazakhstan	30.3	27.4	28.3	30.5	32.8	47.6	25.7	2.4%
Poland	28.0	27.5	26.5	25.4	20.1	16.1	14.6	1.3%
Total	713.9	764.0	936.0	1,000.6	1,073.4	1,087.3	1,090.8	100%

Imports of Coal by Country and year (million short tons)[78]

Country	2006	2007	2008	2009	Share
Japan	199.7	209.0	206.0	182.1	17.5%
China	42.0	56.2	44.5	151.9	14.5%
South Korea	84.1	94.1	107.1	109.9	10.6%
India	52.7	29.6	70.9	76.7	7.4%
Taiwan	69.1	72.5	70.9	64.6	6.2%
Germany	50.6	56.2	55.7	45.9	4.4%
United Kingdom	56.8	48.9	49.2	42.2	4.1%
Total	991.8	1,056.5	1,063.2	1,039.8	100%

Kömürün oluşumu



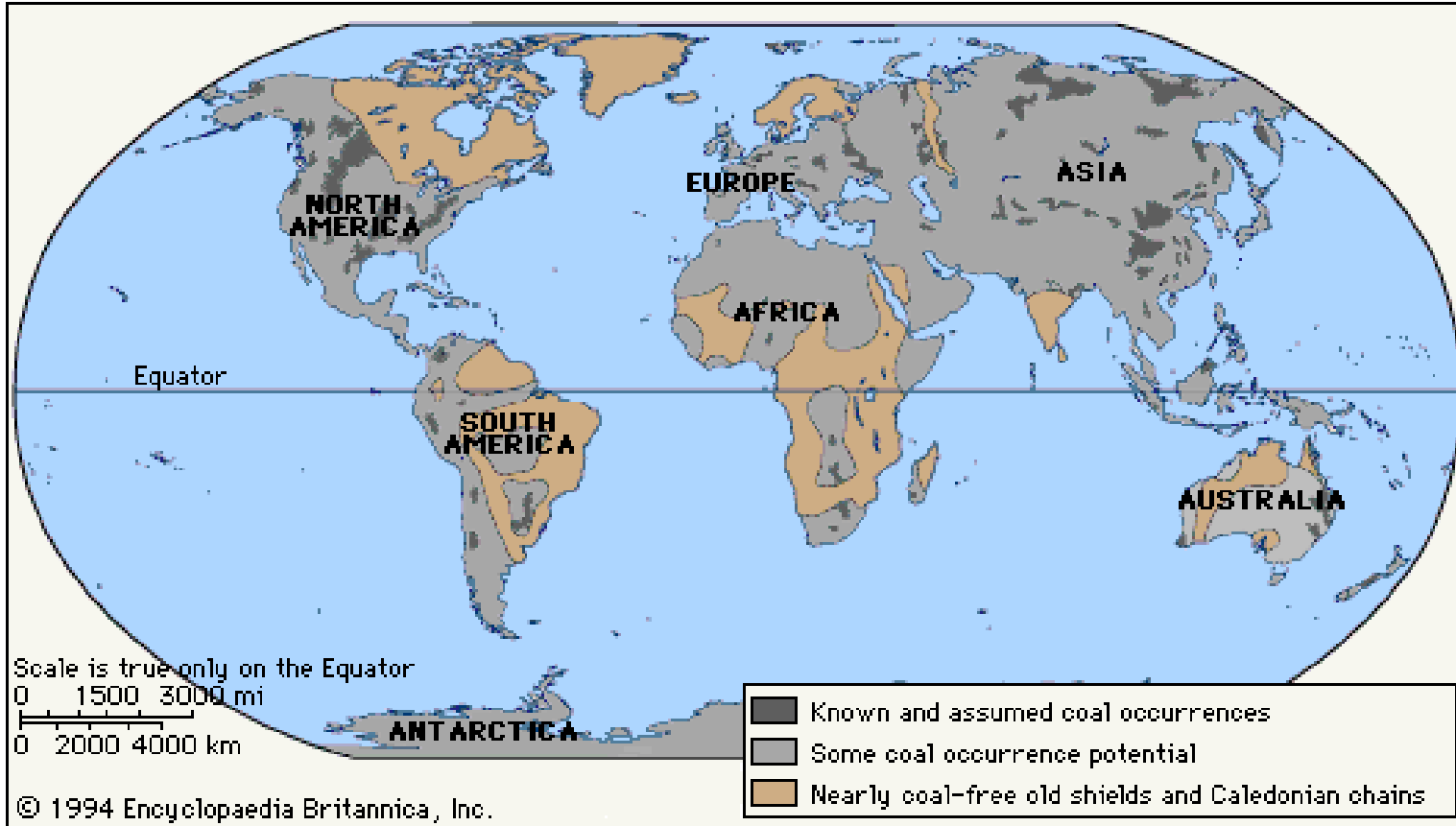
Kömürün oluşumu



Kömür profili



Kömürün Jeolojik Ve Coğrafi Lokasyonu





24.11.2019

Dünyadaki ana kömür yatakları

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