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Continental climate and its relationship to dusty phenomena and health effects in Iraq

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Abstract---Continental climate is characteristic climatic or trait climatic, resultant from affected the climate by mass Land (continental) contribute in Create Properties climatic is characterized by capacity Term Thermal and lower Humidity relativity, and few quantities the rain, result free the sky from clouds and height pedigree evaporation and more phenomena dusty given to increase repetition phenomena dusty in the years last on region the study. So must study objectivity to find out the reasons the real latent behind repetition phenomena dusty to stand on it and try finding solutions and ways that from she will reduce from its effect and prevention without repetition. It was completed study the climate Continental in Iraq using Poresof index Equation for the period 1977 - 2020 AD and for five ten Station climatic represented by Zakho, Mussel, Sulaymaniyah, Kirkuk Tikrit, Khankeen, Baghdad, Rutbaa, Hey, Najaf, Diwaniyah, Samawah, Nasiriyah, Emaarah, Basra Heyalhussein. Then extract correlation between the climate continental and dusty phenomena by Pearson and select relationship and Energy Relationship linear relationship direction (increase or decrease).

Keywords---continental climate, relationship, dusty phenomena.

Introduction

Continental climate is characteristic climatic, resultant from affected the climate by mass Land continental contribute in Create Properties Climatic Is characterized by capacity Term Thermal and lower Humidity relativity, and few quantities the rain, result free the Sky from clouds and height pedigree evaporation and more phenomena Dusty attributed reason Appearance of Trait the climate Continental to Collection inter connected from factors. The most important near the place or after it About seas. And the Differences in Properties lumps dry and water physical. Where that it responsible About variance in grades the heat and

effect Cooling and heating and given to drop the heat Quality for clothes. Then crusty Continents Faces contrast thermal Larger from flats aquatic, in Regions Nearby from flat s aquatic tend Atmosphere. That be more Humidity with a plus Humidity Atmosphere resulting About evaporation. As for climate Regions far About flats aquatic it will be more drier because of to rise rates evaporation g the resulting About grades the heat excessive as such impact both From Location about for circles the offer, and terrain as well as About direction wind Prevailing for most days the year on me manifestation characteristic continental climatic and given for absence studies dealt with the climate Continental and relationship by phenomena dusty have to We extract Values continental From During Application Equation Borisov and from then extract Relationship between continental and phenomena dusty and select Type relationship .

The theoretical framework for research

1. Research problem:
The research problem is thus What is the relationship between the continental climate and dusty phenomena in Iraq?
2. Research hypothesis
The hypothesis can be formulated that there is a relationship between the continental climate and dusty phenomena in Iraq
3. The importance and objectives of the research: lie Importance the study in Importance the climate and its effect on me various aspects life, characterized the climate Continental with changes sharp in grades the heat her winters cool a little rain and humidity it maid hot dry, wide Term Thermal and height Values evaporation and phenomena dusty to her its effects on The human From Where the health and rest The human, like that its effect on me production agricultural naughty vegan and animal and its effect on me Consumption watery, and activities economic industrial, commercial, tourism as such that continental one foundations important to classify climatic, and given for not Presence Which study applied About Relationship between all From continental and phenomena dusty. The performance studying Scientific extensive From finding ways and put solutions that reduce From Dusty phenomena Repetition.
Aims the study to account continental Continentally by credit on Poresof Equation of index which Prepare From most important Equations and most of them Accuracy and common as such that it Contains on standard Complete trust it Determine Degree continental in stations region the study and from then it representation cartographically. Aim the study to statement Correlation between the climate Continental and phenomena dusty by crediton Pearson and select Relationship in line and statement Relationship and linear Relationship Direction (increase or decrease).
4. Limitations of the search: the study region determined spatially in border Iraq that Located in the corner Southern Western From continent Asia between my circle latitude (37 27 -29 6) north and length (48 36 -38 39) east and the area is 435025 km². It was completed selection five ten Station climatic cover areas Iraq different It is in Zakho, Mussel, Sulaymaniyah, Kirkuk, Tikrit, Khankeen, Baghdad , Rutbaa, Hey, Najaf, Diwaniyah, Samawah, Nasiriyah , Emaarah, Basra Heyalhussein. Map1 the border temporal ranging Between 1977 - 2020. That is 43 years old.

Table 1 Stations climatic covered studying in Iraq

Number station egoist	Height About level Surface sea (m)	Location about for lines height east	Location about for circles the offer north	Station
605	433	42 43	37 08	Zakho
608	223	43 09	36 19	Mussel
623	843	45 27	35 32	Sulaymaniyah
621	331	44 24	35 28	Kirkuk
631	115	43 32	34 54	Baiji
637	175	45 23	34 21	Khanaqin
650	31	44 24	33 18	Baghdad
642	630	40 17	33 02	Rutbaa
665	17	46 02	32 08	Hey
670	53	44 19	31 57	Najaf
672	20	44 57	31 57	Diwaniyah
680	9	47 10	31 50	Emaarah
674	11	45 16	31 16	Samawa
676	5	46 14	31 01	Nasiriyah
689	2	47 47	30 34	Basra / Al Hussein

source | Republic of Iraq Ministry of Transport in the Kurdistan Region of Iraq, General Authority for Meteorology and Monitoring Seismicity in Iraq, Climate Division , unpublished data

Republic Iraq, Ministry Transport, Commission the public for the time air and monitoring seismic in Iraq Division the climate, data not published

Continental values and degrees in Iraq for the period 1977-2020 AD

It is called climate Iraq with climate Continental Same Tropical Sub – Tropical Continental but this is naming not enough to describe climate Iraq. because in the scientist areas a lot Can release this The name on her but it Different OK the difference About climate Iraq Clarify climate Iraq by qualities Main that characterized out the climate Continental Which ⁽¹⁾ :

1. Mada the heat daily and annual high.
2. rain a little very much
3. humidity Relativity few.

Many Standards that Determine the climate Continental users Term Thermal Annual as a basis in Determine quality the climate Except that Equation Borisov finer Equations and most of them novelty and ease could the scientist Borisov transcend disadvantages rates Previous as such Includes standard Complete on

¹Corden Huston Jassim Mohammed back), the foundations natural for geography Iraq , 1st floor , .printing press **Al-** Arabiya , Baghdad , 1948. p . 75

me its light Determine Degree continental and not Values continental Just became shape the following ⁽²⁾:

$$K = \frac{A}{L} \times 100$$

K= % Labs Continental

A . = Term Thermal Annual in percent

L = . Circle the offer geographical

It includes standard Equation Borisov on me Values set Degree Continental stations that say coefficients About 30% is classified From the climate marine , and if she was Values laboratories Located Between 31-40 % at the station transitional , and if she was worth Located Between - 50% at the station continental , and if she was Values Factories 51 - 80% at the station severe continental , and if she was Values laboratories More From 81% to the climate continental Intense very much and given Because Equation Borisov she the most frequently used and young and a time Complete Accreditation in extraction for continental as such that this is the equation Contains on me standard we can From Determine Degree continental for every Station Climatic , specify Values continental no Feasibility Of which Without Presence standard Identifies Degree Continental.

Table 2 Values continental in Iraq for the duration 1977 - 2020 Varied between stations region the study Lost reached continental in Station Zakho 72.1 either in Station Baghdad Lost reached Values Continental 78.5 in when reached in Station Basra 83.7 and this You know? that Values continental increase whenever we headed From north region the study towards south of it note Map . As for Degree continental diverged she other , was within category the climate Continental extreme Some stations Including Zakho , Mosul , Sulaymaniyah , Kirkuk , Baiji , Khanaqin , Baghdad , Rutba , Diwaniyah stations the other represented by Najaf , Al- Amarah , Samawah , Nasiriyah , Basra ranked on me that it self climate continental Intense very can that attributed reason that to me lack the lid vegan and lower Humidity and rain.

Table 2 values and continental degree In Iraq for the period 1977-2020 AD

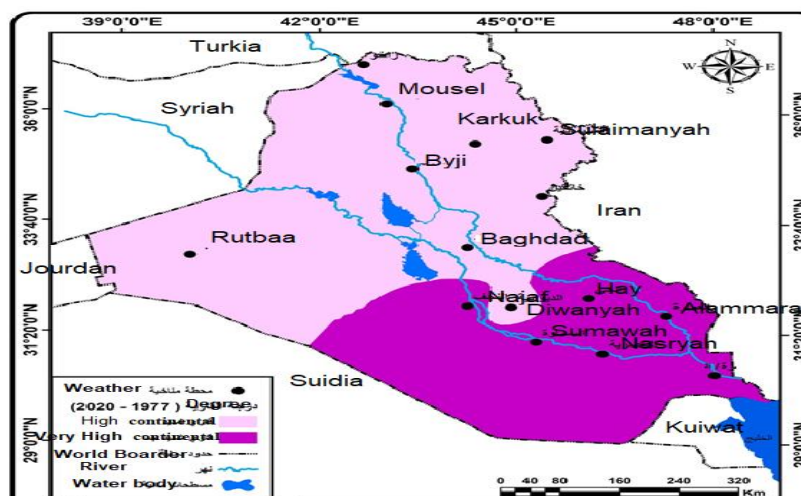
Continental degree	continental	Latitude	Term	k2	July	stations
hard continental	72.1	37.08	26.7	6.1	32.8	Zakho
hard continental	. 75.9	36.19	27.5	7.6	35.1	Mussel
hard continental	78.8	35.32	27.8	7.3	35.1	Sulaymaniyah
hard continental	75.7	36.28	27.5	9.2	36.7	Kirkuk

²peace phone Al-Jubouri , science the climate Applied , 1st floor , college Education Son Rushd , .University Baghdad , 2014, p . 69

hard continental	78.2	34.45	27.0	9.0	36.0	Baiji
hard continental	78.2	34.21	26.7	9.9	36.6	Khanaqin
hard continental	78.5	33.18	26.1	9.7	35.8	Baghdad
hard continental	74.0	33.02	24.4	8.0	32.5	Rutbaa
very hard continental	82.0	32.08	26.3	11.5	37.8	Hey
very hard continental	84.8	31.57	26.8	10.8	37.6	Najaf
hard continental	79.8	31.57	25.2	11.3	36.5	Diwaniyah
very hard continental	83.8	31.5	26.4	11.4	37.8	Emaarah
very hard continental	82.6	31.16	25.7	11.3	37.1	Samawa
very hard continental	84.1	31.01	26.1	11.9	38.0	Nasiriyah
very hard continental	83.7	30.34	25.4	12.7	38.1	Basra / Al Hussein

Source / from the researcher's work, based on Republic of Iraq Ministry of Transport In the Kurdistan region of Iraq, the General Authority for Meteorology and Monitoring Seismicity in Iraq, Climate Department , unpublished data. And the Borisov equation , the Poresif index Republic of Iraq, Ministry of Transport, General Authority for Meteorology and Seismic Monitoring in Iraq, Climate Department, unpublished data. And the Borisov equation , the Poresif index

Map 1 degrees continental in Iraq For the period 1977 – 2020 AD



Source: credit on Table 1 and depending on on me a program Airc Gis 10.2

Dust phenomena in Iraq for the period 1977-2020 AD

Dust phenomena are repeated in the stations of the study area in their various forms, (dust storms, rising dust, and suspended dust), and these phenomena increase in southern Iraq, because the natural conditions are favorable for the formation of these phenomena, and they are represented by the geographical location of the Western Desert and the few rains, as well as the scarcity of natural vegetation and drought The land and its equator that contribute to the activity of wind movement

Dust storms

storms dusty mean out excitement the dust in air and its connection with conditions Storm real , rarely What accompanied by fall . produces a movement strong for the wind Working on me upload Subject the floor disassembled And the get ⁽³⁾ pregnant for heights big and maybe distances far and storms dusty she Trait basic in climate Iraq it is rare that ,Pass year From the years Without happening Storm dusty Inclusive roaming country From north to the south or Storm dusty partial cover some Regions , that the reason in plenty storms dusty product About its occurrence area desert , please About that Rate big From space Iraq phrase About areas dry form Sahara (39.2%) from its area . and storms dusty may be be local Origin or ⁽⁴⁾ external Origin and spoke storms dusty in stations region the study During all seasons and hot testify higher repetitions for storms dusty , and perhaps reason months year , but Stay Months . that drought Earth that easy stirred up by the wind

Table 3 and map 3 represent rates monthly and the sum Annual for storms dusty in stations region the study Where We find contrast in the total Annual to repeat days storms dusty minimum sum annual in Station Zakho It reached 0.49 days followed by Station Sulaymaniyah 1.70 day , start the total Annual in height to inform higher sum in Station Samawah 19.72 days , because of near its location From plateau Western and increase Repetition storms dusty in Months summer , to register higher rates monthly During months April And the May and June registered in Station Zakho on me straight 0.17 , 0.08 , 0.02) day , either in Station Baghdad Lost reached for the same Months (0.90 , 1.29 , 0.55 day in when reached in Station Basra 1.58 , 1.75 , 1.75 days minimum Repetition for storms dusty register During Monthly Canon the first and canon Second to inform Station Zakho 0.02 , 0.00 day , either in Station Baghdad Lost reached

³ Howard J. Critchfield, general climatology, third edition, printed in USA, 1974, P. 129.

⁴ 1st floor, Baghdad, 2013, p 264 , Salar On , climate Iraq the old and contemporary

Schedule 3 rates monthly and the sum Annual for the number days storms Dusty (day) in Iraq For the period (19 77 -20 20) M

Annual total	k1	T2	T1	September	Father	July	June	May	April	March	February	k2	station
0.49	0.02	0.02	0.02	0.03	0.00	0.00	0.02	0.08	0.17	0.08	0.02	0.00	Zakho
2.30	0.03	0.00	0.15	0.03	0.18	0.28	0.26	0.40	0.49	0.15	0.29	0.05	Mussel
1.70	0.10	0.20	0.20	0.10	0.10	0.10	0.20	0.20	0.20	0.10	0.10	0.10	Sulaymaniyah
2.44	0.07	0.07	0.49	0.19	0.07	0.23	0.24	0.62	0.26	0.12	0.07	0.02	Kirkuk
2.70	0.10	0.20	0.40	0.30	0.20	0.30	0.20	0.20	0.20	0.10	0.40	0.10	Baiji
2.23	0.00	0.02	0.05	0.05	0.20	0.26	0.38	0.50	0.36	0.20	0.20	0.00	Khanaqin
5.65	0.23	0.19	0.35	0.29	0.29	0.10	0.55	1.29	0.90	0.74	0.55	0.16	Baghdad
7.50	0.00	0.10	0.20	0.10	0.00	0.50	0.50	2.10	1.90	1.20	0.80	0.10	Ruthaa
5.17	0.06	0.10	0.20	0.16	0.05	0.12	0.83	0.86	1.34	0.86	0.43	0.17	Hey
5.80	0.07	0.07	0.36	0.48	0.52	1.17	1.07	0.74	0.59	0.38	0.14	0.21	Najaf
6.69	0.20	0.35	0.28	0.18	0.03	0.20	0.35	1.42	1.38	1.20	0.75	0.38	Diwanayah
8.89	0.41	0.34	0.57	0.48	0.91	1.02	1.30	0.82	0.91	1.00	0.73	0.41	Emaarah
19.72	0.17	0.29	0.39	0.95	2.46	4.27	4.38	2.10	2.14	1.47	0.87	0.22	Samawa
8.78	0.17	0.07	0.59	0.17	0.37	1.34	1.24	1.60	1.30	0.93	0.61	0.39	Nasiriyah
10.92	0.08	0.33	1.08	0.50	0.92	1.83	1.75	1.75	1.58	0.58	0.42	0.08	Basra / Al Hussein

Source From a job researcher by credit on

Republic Iraq , Ministry transportation , authority the public for the time air and monitoring seismic in Iraq , Section climate , data not published

Republic Iraq, Ministry Transport and connectors in province Kurdistan Iraq , the commission the public for the time air and monitoring seismic , section climate , data not published

straight 0.23 , 0.16 day , and amounted to Station Basra for the same The two months 0.08 , 0.08 day . clear Our increase rates Repetition and the sum Annual for phenomena dusty whenever we headed south and that increase storms dusty product From Capacity in ranges Thermal that she From highlight Features the climate Continental , where Working on me fell apart the soil and make it a bite palatable for the wind Than easy excitement storms dusty

Rising dust

One shapes phenomena dusty that to speak result non stability atmospheric output From Heating Surface Earth Happening the changes value the pressure air, which contribute Bitcoin swirls aerobic Working on me upload atoms the dust for height up 15 m, and when Reach atoms to down and sedimentation me higher level in Atmosphere start⁽⁵⁾ note From During Table 4 and Map 4 days the dust

⁵Suleiman Ishmael , the storms dusty and dirt in Iraq , magazine Association geographical **AI-**.Iraqiya , No. 39, 1999, p . 132

soaring in stations region the study contrast spatially between stations region the study Lost reach the total Annual for the number days the dust soaring in Station Zakho 6.70 days and is Less sum annual between stations region study , while registered Station Samawa as the highest sum annual for the number days the dust soaring Lost It reached 112.02 days variance temporal between stations region the study It was prominent , increasing the dust soaring when Months the summer to register higher modified Monthly for the number days the dust soaring During Months March , April , May lost registered Station Zakho During same Months and on Consecutive 1.00 , 1.10 , 1.10 day . As for Station Baghdad Lost reached for the same Months 6.00 , 7.39 , 6.84 days , in when reached Station Basra 5.47 , 5.92 , 9.11 days and say Number days the dust soaring in Months cold , especially in Monthly Canon The first , and Canon second it reached Less modified Monthly in these two the two months Lost registered Station Zakho 0.10 , 0.20 day , but Station Baghdad 2.10 , 2.06 days , in when reached Station Basra for the same the two months and on respectively 0.55 , 0.79 days . rates monthly for the number.

Table 4 rates monthly and the sum Annual for the number days the dust soaring in Iraq For the period 19 77-20 20 m

the total Annual	k 1	T 2	T 1	September	Father	July	June	May	April	March	February	k 2	station Zakho
6.70	0.10	0.20	0.40	0.40	0.60	0.60	0.70	1.10	1.10	1.00	0.30	0.20	
13.50	0.40	0.50	0.60	0.70	1.30	1.20	1.40	3.20	1.70	1.90	0.30	0.30	Musel
13.19	0.24	0.48	0.88	0.50	1.21	1.05	1.33	2.93	1.96	1.55	0.69	0.38	Sulaymaniyah
16.86	0.40	0.56	1.53	1.33	1.26	1.93	2.02	3.58	2.26	1.05	0.67	0.28	Kirkuk
33.21	0.60	0.71	1.62	2.02	3.74	5.83	5.88	4.45	3.95	2.14	1.60	0.67	Bagi
15.50	0.20	0.30	1.40	1.40	1.30	1.70	2.30	3.80	1.60	0.90	0.50	0.10	Kharaqin
47.81	2.10	1.87	3.39	2.48	3.32	3.74	4.45	6.84	7.39	6.00	4.16	2.06	Baghdad
57.45	0.74	1.37	1.73	3.99	7.26	9.79	11.20	6.97	5.27	4.84	2.82	1.48	Rutbah
36.26	0.47	0.70	1.72	1.51	3.75	5.69	6.91	4.39	3.80	3.74	2.34	1.23	Hey
56.97	1.55	1.25	2.69	3.17	6.22	11.01	9.51	6.25	5.49	4.84	2.85	2.14	Najaf
59.68	1.60	1.47	2.78	3.89	6.66	9.00	8.38	6.65	6.62	5.90	4.26	2.48	Diwaniyah
52.10	1.00	1.50	3.30	2.80	4.10	6.70	7.80	6.30	6.40	6.40	3.60	2.20	Emarab
112.02	2.36	3.63	5.97	9.53	14.48	17.99	17.71	13.00	10.58	8.31	5.82	2.64	Samawa
81.03	1.27	2.57	3.64	6.95	10.85	14.39	13.01	9.16	7.49	5.96	3.96	1.78	Nairiyah
72.32	0.55	0.99	2.83	6.38	10.00	13.40	14.63	9.11	5.92	5.47	2.24	0.79	Barra / Al Hussein

Source From a job researcher by credit on

Republic Iraq, Ministry transportation , authority the public for the time air and monitoring seismic in Iraq , Section climate , data not published .

Republic Iraq, Ministry Transport and connectors in province Kurdistan Iraq , the commission the public for the time air and monitoring seismic , section climate , data not published.

map 4 the total Annual for the number days the dust soaring in Iraq For the period 19 77-20 20

Suspended dust

One shapes phenomena dusty Happening distance my phenomenon storms dusty and dust soaring , where Stay Minutes From the dust stuck in Atmosphere for a while From time has stretch for several hours or for days () From During Table

5 and Map 5 rates monthly for the number days the dust the stuck in stations region the study contrast spatially between stations region the study Lost reach the total Annual for the number days the dust stuck in Station Zakho 20.20 day) and she Less sum annual between stations region study , while registered Station Nasiriyah as the highest sum annual for the number days the dust stuck Lost reached 177.73 day .variance temporal between stations region the study It was prominent , increasing the dust stuck when Months the summer to register higher modified Monthly for the number days the dust stuck During The months May , June , July are lost registered Station Zakho During same Months and on Consecutive (3.90 , 3.00 , 2.90) day . As for Station Baghdad Lost reached for the same Months (12.85 , 10.86 , 10.33) days , in when reached Station Basra 16.10 , 19.10 , 17.00 a day . say Number days the dust stuck in Months cold , especially in Monthly Canon The first , and Canon second , he reached Less modified Monthly in these two the two months Lost registered Station Zakho 0.30 , 0.70 day , but Station Baghdad 2.47 , 3.40 day , in when reached Station Basra for the same the two months and on Consecutively 3.90 , 2.00 days

Table 5 rates monthly and the sum Annual for the number days the dust stuck in Iraq For the period 19 77-20 20 m

Annual total	k1	T2	T1	September	Father	July	June	May	April	March	February	k2	station
20.20	0.30	0.60	1.70	1.00	1.40	2.90	3.00	3.90	2.20	1.90	0.60	0.70	Zakho
66.65	1.14	1.69	4.48	5.89	8.12	9.82	9.82	10.14	6.39	4.19	3.62	1.35	Musel
43.72	1.26	1.45	4.97	4.42	2.55	3.52	4.42	7.45	6.47	3.94	2.29	1.00	Sulaymaniyah
70.89	1.42	1.01	5.05	6.19	7.35	9.64	9.88	11.59	7.90	5.53	4.08	1.26	Kirkuk
71.70	1.40	2.40	6.10	4.70	5.20	7.40	9.40	11.10	8.70	7.20	5.50	2.60	Baiji
59.62	1.82	2.11	3.95	4.43	4.56	5.84	7.63	9.22	7.48	5.83	4.15	2.60	Khanaqin
87.19	2.47	3.35	7.45	5.30	6.09	10.33	10.86	12.85	10.29	9.31	5.48	3.40	Baghdad
89.86	2.19	4.08	8.44	6.60	8.45	12.44	12.79	13.17	9.58	6.30	2.98	2.83	Rutbaa
74.91	1.28	2.33	5.09	6.74	8.93	13.84	11.67	9.98	6.47	4.53	2.91	1.14	Hey
93.80	2.60	3.90	8.40	6.90	9.70	13.40	13.00	13.90	9.90	6.90	2.90	2.30	Najaf
94.44	1.46	1.87	6.08	8.53	9.20	12.93	14.31	13.26	10.98	8.75	4.97	2.11	Diwaniyah
115.24	3.22	5.22	10.49	12.82	16.73	18.60	15.60	13.02	7.84	5.58	3.93	2.18	Emaarah
132.16	4.29	4.94	10.12	12.27	13.42	17.53	17.46	17.28	13.26	9.19	7.87	4.52	Samawa
177.73	9.14	9.30	16.24	17.16	19.65	21.41	20.49	20.60	15.60	11.92	8.80	7.42	Nasiriyah
118.40	3.90	6.00	11.00	13.10	17.00	19.10	16.10	13.30	8.40	5.20	3.30	2.00	Basra / Al Hussein

Source From a job researcher by credit on

Republic Iraq , Ministry transportation , authority the public for the time air and monitoring seismic in Iraq , Section climate , data not published

Republic Iraq, Ministry Transport and connectors in province Kurdistan Iraq, the commission the public for the time air and monitoring seismic

Map 5 the total Annual for the number days the dust stuck in Iraq For the period 19 77-20 20 m

The statistical relationship between the continental and dusty phenomena in Iraq

The relationship between continental and dust storms in Iraq

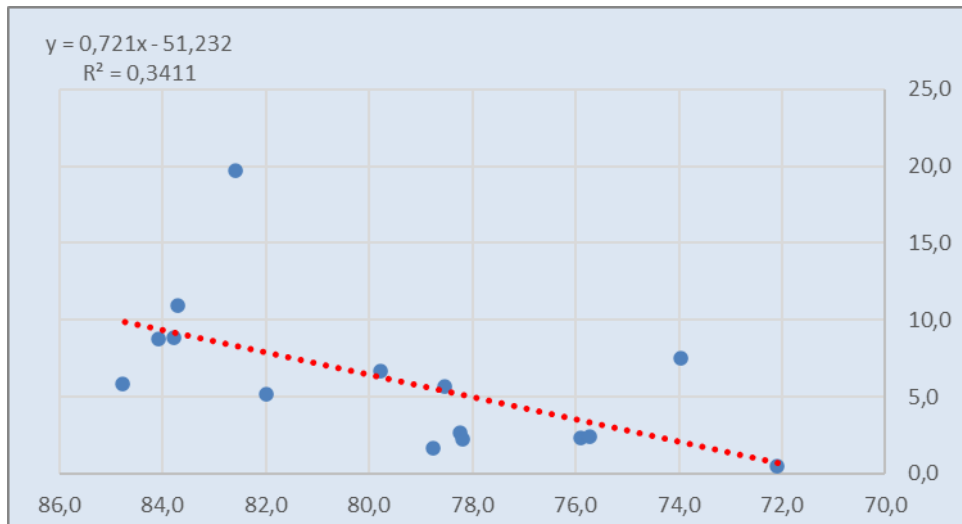
Table 6 Relationship between continental and the storms dusty she Relationship orthodox medium so reach Labs Correlation 0.6 at level Indication 5% and this You know? it's a whenever increased continental accompanied by a plus Repetition blowing storms dusty because of capacity ranges Thermal that Working on me fell apart soil and lower Humidity Relativity in Atmosphere and few rain Than contribute in Repetition blowing storms dusty , and appears Line regression heading to me right Than Indicates to me Relationship orthodox between them so reached Its value is 0.721 Note Figure 1 , either Labs Change R^2 that you speak it continental in storms dusty Lost It reached 0.341) in when reached Values P The moral (0.022

Table 6 Relationship between continental and storms dusty in Iraq

dust storms	continental	station
0.5	72.1	Zakho
2.3	. 75.9	Mussel
1.7	78.8	Sulaymaniyah
2.4	75.7	Kirkuk
2.7	78.2	Baiji
2.2	78.2	Khanaqin
5.6	78.5	Baghdad
7.5	74.0	Rutbaa
5.2	82.0	Hey
5.8	84.8	Najaf
6.7	79.8	Diwaniyah
8.9	83.8	Emaarah
19.7	82.6	Samawa
8.8	84.1	Nasiriyah
10.9	83.7	Basra / Al Hussein
0.6		Multiple R
Medium parcel		degree
0.341		R^2
2.594		<i>t Stat</i>
0.022		<i>P-value</i>
0.721		<i>Coefficients</i>

source / from a job researcher by credit on me Table 2 and 3

Figure (1) parameter regression between continental and dust storms in Iraq



source / from a job researcher by credit on me Table 6

The relationship between the continental and the rising dust in Iraq

Table 7 Relationship between continental And the the dust soaring she Relationship orthodox strong so reach Labs Correlation 0.7 at level Indication (5%) and this You know? it's a whenever increased continental accompanied by a plus Repetition blowing the dust soaring because of capacity ranges Thermal that Working on me fell apart soil and lower Humidity Relativity in Atmosphere and few rain Than Works on me excitement the dust in Atmosphere , and appears Line regression heading to me right Than Indicates to me Relationship orthodox between them so reached Its value is 4.917) Note Figure (2), either Labs Change R 2 that you speak it continental in the dust soaring Lost It reached 0.423) in when reached Values P The moral (0.009.

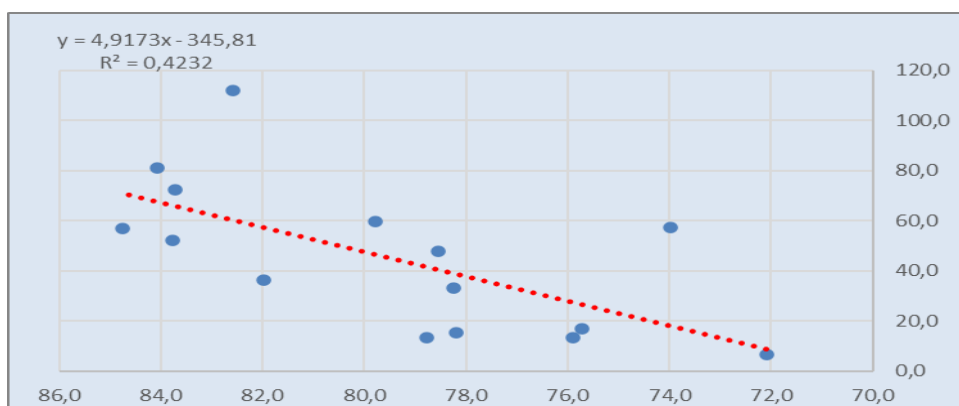
Table 7 Relationship between continental and dust soaring in Iraq

rising dust	continental	station
6.7	72.1	Zakho
13.5	75.9	Mosul
13.2	78.8	Sulaymaniyah
16.9	75.7	Kirkuk
33.2	78.2	Peggy
15.5	78.2	Khanaqin
47.8	78.5	Baghdad
57.5	74.0	humid
36.3	82.0	Neighborhood
57.0	84.8	Najaf
59.7	79.8	Diwaniyah
52.1	83.8	architecture
112.0	82.6	Samawa

81.0	84.1	Nasiriyah
72.3	83.7	Basra/ Al-Hussein
0.7		Multiple R
strong expulsion		degree
0.423		R Square
3.088		<i>t Stat</i>
0.009		<i>P-value</i>
4.917		<i>Coefficients</i>

source / from a job researcher by credit on me Table 2and 4

Figure 2 parameter regression between continental And dust rising in Iraq



source / from a job researcher by credit on me Table 7

The relationship between continental and suspended dust in Iraq

It turns out From Table (8) Relationship between continental And the the dust stuck Length Period the study she Relationship orthodox strong so reach Labs Correlation (0.7) at level Indication (5%) and this You know? it's a whenever increased continental accompanied by a plus Repetition days the dust stuck a because of drop Humidity Relativity in Atmosphere and few rain Than contribute in Repetition the dust stuck , and appears Line regression heading to me right Than Indicates to me Relationship orthodox between them so reached Its value is (6.955) Note Figure (3), either Labs Change R 2 that you speak it continental in the dust stuck Lost It reached (0.519) in when reached Values P The moral (0.002).

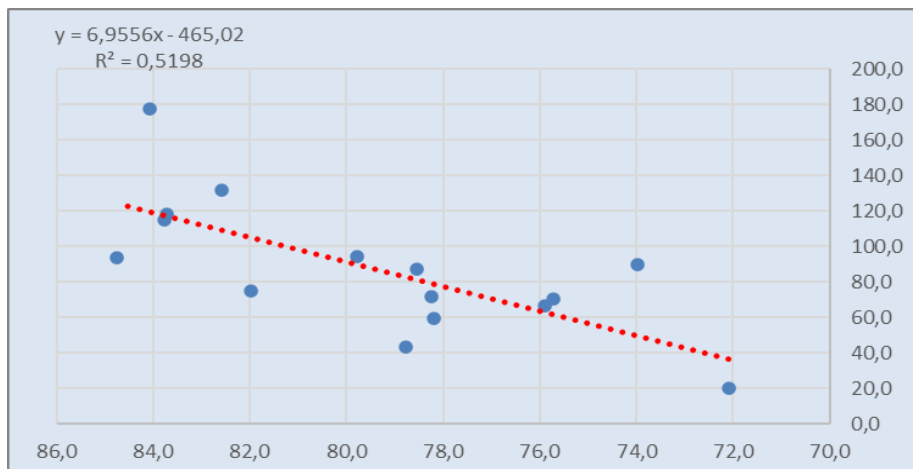
Table 8 Relationship between continental and dust stuck in Iraq

stuck dust	continental	station
20.2	72.1	Zakho
66.6	. 75.9	Mussel
43.7	78.8	Sulaymaniyah
70.9	75.7	Kirkuk
71.7	78.2	Baiji
59.6	78.2	Khanaqin

87.2	78.5	Baghdad
89.9	74.0	Rutbaa
74.9	82.0	Hey
93.8	84.8	Najaf
94.4	79.8	Diwaniyah
115.2	83.8	Emaarah
132.2	82.6	Samawa
177.7	84.1	Nasiriyah
118.4	83.7	Basra / Al Hussein
0.7		Multiple R
strong expulsion		degree
0.519		R 2
3.751		t Stat
0.002		P-value
6.955		Coefficients

source / from a job researcher by credit on me Table2 and 5

Figure 3 parameter regression between continental And the dust stuck in the Iraq



source : from a job researcher by credit on me Table 8

Conclusions

The study concluded that Values continental in Iraq for the duration 1977 - 2020 Varied between stations region the study Lost reached continental in Station Zakho 72.1 either in Station Baghdad Lost reached Values Continental 78.5 in when reached in Station Basra 83.7 and this You know? that Values continental increase whenever we headed From north region the study towards south of it. The study found that Degree continental diverged she other , was within category the climate Continental extreme in some stations Including Zakho , Mosul , Sulaymaniyah , Kirkuk , Baiji , Khanaqin , Baghdad , Rutba , Diwaniyah stations the other represented by the neighborhood , Najaf , Al-

Amarah , Samawah , Nasiriyah , Basra ranked on me that it self climate continental Intense very

The study concluded that Relationship between continental And the storms dusty she Relationship orthodox medium so reach Labs Correlation 0.6 at level Indication 5% and this You know? it's a whenever increased continental accompanied by a plus Repetition blowing storms dusty because of capacity ranges Thermal that Working on me fell apart soil and lower Humidity Relativity in Atmosphere and few rain Than contribute in Repetition blowing storms Dusty The study concluded that Relationship between continental And the the dust soaring she Relationship orthodox strong so reach Labs Correlation 0.7 at level Indication 5%) and this You know? it's a whenever increased continental accompanied by a plus Repetition blowing the dust soaring because of capacity ranges Thermal that Working on me fell apart soil and lower Humidity Relativity in Atmosphere and few rain Than Works on me excitement the dust in the atmosphere ,

The study found that Relationship between continental And the the dust stuck Length Period the study she Relationship orthodox strong so reach Labs Correlation 0.7 at level Indication (5%) and this You know? it's a whenever increased continental accompanied by a plus Repetition days the dust stuck because of drop Humidity Relativity in Atmosphere and few rain Than contribute in Repetition the dust stuck

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