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LAMPIRAN

Lampiran 1 Proyeksi Curah Hujan *Indonesia's Climate Change Sectoral Roadmap*

Region	Mean Rainfall												Standard Deviation											
	Month (January to December)												Month (January to December)											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Java-Bali	↗	↗	↗	↗	○	↗	○	○	↘	○	↘	↗	✱	✱	✱	○	○	○	○	○	○	✱	○	○
Sumatra	↗	↗	↗	↗	✱	○	↗	↗	↗	↗	✱	↗	✱	✱	✱	○	○	○	○	✱	○	✱	✱	✱
Sulawesi	↗	↗	↗	↗	✱	○	↘	↘	✱	↘	✱	↗	✱	✱	✱	○	✱	○	○	✱	✱	○	○	○
Kalimantan	↗	↗	↗	↗	✱	○	↘	↘	↗	↘	✱	↗	✱	✱	✱	○	○	○	○	✱	○	✱	○	○
Maluku	○	↗	↗	○	○	↗	↘	↘	○	↘	✱	↗	✱	✱	✱	○	✱	○	○	○	○	○	○	○
Nusa Tenggara	↘	↘	↗	○	○	○	○	○	↗	○	○	↗	✱	✱	✱	○	○	○	○	○	○	○	✱	○
Papua	↗	↘	↗	↗	✱	↗	✱	↗	↗	○	↗	↗	✱	✱	✱	○	○	○	○	○	○	○	○	○

↗ : mainly increasing, ↘ : mainly decreasing, ✱ : ↗ and ↘ are almost evenly distributed,
 ○ : mainly unchanged, ✱ : mainly increasing (standard deviation), ✱ : most area increasing,
 ✱ : most area decreasing, ○ : unchanged or changes are not significant

Lampiran 2 Script Matlab

1. Script Anomali Curah Hujan

```
clear
load AnomaliCH.txt
y=AnomaliCH(:,1);year=1981:2020;year=year';
jja=AnomaliCH(:,2);%s

prod= jja;
opol = 2; %2
[p,s,mu] = polyfit(year,prod,opol);
f_y = polyval(p,year,[],mu); %fitting pakai polinomial orde-2

dt_prod = prod - f_y;
plot(year,prod,'o',year,f_y)
legend('Observasi','Polinomial orde 2 ','Location','NorthWest')
ylabel('Curah Hujan musiman JJA [mm]')
xlabel('Tahun')
text(1960,590,'Y= -17.7424 X^2 + 15.1813 X + 661.6132')
exit
clf

mprod=mean(dt_prod);
sprod=std(dt_prod);
apro=(dt_prod-mprod)./sprod;
aprodl=pearmse1(aprod,djf)%r=-0.5872    rmse=1.8819
%exitt
% untuk menentukan batas-batas anomali curah hujan terstandar:
rendah, sedang, tinggi
yy = prctile(aprod,[33.33 66.67]); %-0.2279    0.3823
% exitt

atas=0.3823.*ones(70); %angka 70 adalah jumlah data
bawah=-0.2279.*ones(70);
plot(year,apro,year,atas,'-r',year,bawah,'-g','LineWidth',2)
ylabel('Anomali Curah Hujan DJF terstandar')
xlabel('Tahun')
% grid on
set(gca,'Ytick',[-3,-0.2279,0.3823,3])
% exitt

%plot(year,aprodl)
clf
enso=jja;
%enso=jja;
x=-2.5:2.5;y=-2.5:2.5;
yy = prctile(aprod,[33.33 66.67]); %-0.2279    0.3823

n=70;
A=zeros(n,1);
for m=1:n;
    if enso(m,1)<-0.5
        if aprodl(m,1)<-0.2279
            A(m,1)=1;
        end
    end
end
```

```

        end
    end
end
A1=sum(A);

B=zeros(n,1);
for m=1:n;
    if enso(m,1)>=-0.5 & enso(m,1)<=0.5
        if apro(m,1)<-0.2279
            B(m,1)=1;
        end
    end
end
B1=sum(B);

%-0.2279    0.3823

C=zeros(n,1);
for m=1:n;
    if enso(m,1)>0.5
        if apro(m,1)<-0.2279
            C(m,1)=1;
        end
    end
end
C1=sum(C);

%-0.2279    0.3823

D=zeros(n,1);
for m=1:n;
    if enso(m,1)<-0.5
        if apro(m,1)>=-0.2279 & apro(m,1)<=0.3823
            D(m,1)=1;
        end
    end
end
D1=sum(D);

%-0.2279    0.3823

E=zeros(n,1);
for m=1:n;
    if enso(m,1)>=-0.5 & enso(m,1)<=0.5
        if apro(m,1)>-0.2279 & apro(m,1)<.3823
            E(m,1)=1;
        end
    end
end
E1=sum(E);

%-0.2279    0.3823

F=zeros(n,1);
for m=1:n;
    if enso(m,1)>0.5
        if apro(m,1)>=-0.2279 & apro(m,1)<=0.3823
            F(m,1)=1;
        end
    end
end
F1=sum(F);

```

```

        end
    end
end
F1=sum(F);

%-0.2279    0.3823
G=zeros(n,1);
for m=1:n;
    if enso(m,1)<-0.5
        if apro(m,1)>.3823
            G(m,1)=1;
        end
    end
end
G1=sum(G);

%-0.2279    0.3823
H=zeros(n,1);
for m=1:n;
    if enso(m,1)>=-0.5 & enso(m,1)<=0.5
        if apro(m,1)>0.3823
            H(m,1)=1;
        end
    end
end
H1=sum(H);

%-0.2279    0.3823
I=zeros(n,1);
for m=1:n;
    if enso(m,1)>0.5
        if apro(m,1)>-1.2361
            I(m,1)=1;
        end
    end
end
I1=sum(I);

ADG1=(A1+D1+G1);BEH1=(B1+E1+H1);CFI1=(C1+F1+I1);
PA=A1/ADG1*100;
PB=B1/BEH1*100;
PC=C1/CFI1*100;
PD=D1/ADG1*100;
PE=E1/BEH1*100;
PF=F1/CFI1*100;
PG=G1/ADG1*100;
PH=H1/BEH1*100;
PI=I1/CFI1*100;
PADG=PA+PD+PG;
PBEH=PB+PE+PH;
pgda=[PG PD PA];%nina 54.5455    36.3636    9.0909
pheb=[PH PE PB];%netr 30.7692    46.1538    23.0769
pifc=[PI PF PC];%nino 45.7143    11.4286    42.8571
%exitt
p=[PG PH PI;PD PE PF;PA PB PC];
%%%-

```

```

opol1 = 1; %membuat garis linear
[p1,s1] = polyfit(enso,apro,opol1);
%p1= -0.5735    -0.0139 %persamaan garis lurus antara anomali CH
terstandar
%vs ENSO
%exitt
[f_y1,delta] = polyval(p1,enso,s1);
ensocontoh=[-0.74 0 0.74];
[Y,delta] = polyval(p1,ensocontoh,s1);

Yup=[Y+delta];%
Ylow=[Y-delta];%
%exitt
prod_max=Yup*sprod+mprod; % ()
prod_mean=Y*sprod+mprod; % ()
prod_min=Ylow*sprod+mprod; % ()
%exitt
anom_max=Yup*sprod; % ()
anom_mean=Y*sprod;% ()
anom_min=Ylow*sprod; % ()
nina=[anom_max(1) anom_mean(1) anom_min(1)];
%[371.5048,247.4172,123.3296]
netr=[anom_max(2) anom_mean(2) anom_min(2)]; %[119.0183,1.9868,-
115.0447]
nino=[anom_max(3) anom_mean(3) anom_min(3)]; %[-119.5746,-
243.4435,-367.3125]
%exitt

plot(enso,apro,'o',enso,f_y1)%,hold on
xlabel('X (ENSO JJA) [^oC]')
ylabel('Y (Anomali Curah Hujan JJA terstandar)')
title('Periode tahun 1950-2019 (n=70), Y = -0.5387*X - 0.0008')
text(-2.8,-2.5,'r = -0.5589    RMSE = 178.70 mm')
%title('nama nim Indonesia')
%plot(x,y,':')
%p1= -0.5735    0.0139 %persamaan garis lurus antara anomali CH
terstandar
%vs ENSO
% text(-1.8,1.2,'ANOM-CH-STD -0.5643 * ENSO 0.0137')
axis('square')
axis([-3 3 -3 3])
%axis([-1.5 1.5 -1.5 1.5])
grid on

%-0.2279    0.3823
set(gca,'Xtick',[-3,-0.5,0.5,3])
set(gca,'Ytick',[-3,-0.2279,0.3823,3])

text(-2.2,-1.5,[num2str(PA,'%2f'),''])
text(-2.2,-1.25,[num2str(A1)])
text(-2.2,-0.05,[num2str(PD,'%2f'),''])
text(-2.2,0.25,[num2str(D1)])
text(-2.2,2,[num2str(PG,'%2f'),''])
text(-2.2,2.2,[num2str(G1)])
text(-.25,-1.5,[num2str(PB,'%2f'),''])
text(-.25,-1.25,[num2str(B1)])

```

```

text(-.25,-0.05,[num2str(PE,'%2f'), '%'])
text(-.25,.25,[num2str(E1)])
text(-.25,2,[num2str(PH,'%2f'), '%'])
text(-.25,2.2,[num2str(H1)])

text(1.5,-1.5,[num2str(PC,'%2f'), '%'])
text(1.5,-1.25,[num2str(C1)])
text(1.5,-0.05,[num2str(PF,'%2f'), '%'])
text(1.5,.25,[num2str(F1)])
text(1.5,2,[num2str(PI,'%2f'), '%'])
text(1.5,2.2,[num2str(I1)])
%hold off
%exitt
aprod1=pearmse1(aprod,djf)%r=-0.5475    rmse=1.779

```

2. Script HSS

```

function [ hss ] = HeidkeSS(ctable)
% The function compute Heidke skill score for deterministic
forecast of
% multi category events from a contingency table
% input: ctable = contingency table matrix C where C(i,j) is number
of
% events where forecast category was i and observed category was
j.
% output: hss = Heidke skill score
if size (ctable,1) ~= size(ctable,2)
    error('A contingency table');
end
ctable = ctable./sum(ctable(:));
h1= trace(ctable);
po= sum (ctable,1);
pf= sum (ctable,2);
h2= sum(po.*pf');
hss=(h1-h2)/(1-h2);
end
clear
clc
% contingency tabel or confusion matrix rainfall
C=[0 4 4;0 2 1;0 0 1]
% 0 4 4
% 0 2 1
% 0 0 1
Heid=HeidkeSS(C) %Heidke SS

```

3. Script Korelasi

```

load Korelasi.txt
x = Korelasi(:,1);
y = Korelasi(:,2);
% menghitung koefisien korelasi dari x dan y
R = corr(x,y)
[r p]=corrcoef(x,y)

```

Lampiran 3 Data Penelitian

1. Data rata-rata Curah Hujan pada HSS dari tahun 1981-2007 dan 2010-2020

Tahun	Bulan	Jayapura	Biak Nufor	Sarmi	Kerom	Waropen
1981-2007	Januari	213.4576	247.25	232.0964	258.7763	251.9578
1981-2007	Februari	291.6446	227.093	191.4667	279.2478	240.0852
1981-2007	Maret	262.2057	248.0652	243.6241	257.4278	271.843
1981-2007	April	203.8411	222.5119	216.1807	251.0896	269.8133
1981-2007	Mei	131.3492	227.3427	232.3963	139.7123	249.6133
1981-2007	Juni	111.592	203.6709	218.3641	134.6244	422.347
1981-2007	Juli	111.8216	239.5033	261.3974	125.1554	450.6041
1981-2007	Agustus	125.998	206.0164	225.2333	169.7168	361.528
1981-2007	September	116.6381	216.4212	197.0889	143.4498	351.26
1981-2007	Oktober	137.5839	198.2178	219.0904	154.1765	288.2759
1981-2007	November	152.3441	172.9219	177.0923	164.8793	209.287
1981-2007	Desember	248.1374	232.2456	230.6778	251.7115	218.4052
2010-2020	Januari	251.8964	253.79	268.7355	250.8655	270.7736
2010-2020	Februari	273.5418	241.8007	182.9745	247.8918	278.1364
2010-2020	Maret	306.0045	251.86	273.3927	254.7727	314.4382
2010-2020	April	211.3427	262.7455	220.0764	268.7864	333.8655
2010-2020	Mei	137.8845	263.4264	228.1691	143.8265	292.7809
2010-2020	Juni	121.4565	230.1709	230.2373	144.9041	456.1973
2010-2020	Juli	104.0165	246.9827	245.1445	109.2155	454.3627
2010-2020	Agustus	102.5176	222.5094	198.0414	134.945	434.1982
2010-2020	September	131.5513	230.9927	205.5618	144.8149	378.8473
2010-2020	Oktober	137.8386	205.0601	234.5118	156.9348	280.8709
2010-2020	November	173.5018	206.6134	202.5364	183.6018	234.6709
2010-2020	Desember	233.7271	262.9164	244.9118	217.8027	237.1745

Tahun	Bulan	Kota Sorong	Raja Ampat	Sorong Selatan	Sorong	Tambrauw
1981-2007	Januari	190.357	169.376	284.7485	268.3161	253.2322
1981-2007	Februari	175.4545	100.8446	254.4352	239.5233	39.73519
1981-2007	Maret	224.2357	173.015	248.0933	280.5756	40.69596
1981-2007	April	245.5233	227.1267	305.1993	290.7004	287.1111
1981-2007	Mei	317.2522	325.1678	560.1689	429.503	509.0352
1981-2007	Juni	357.7097	371.4889	569.8985	538.2498	588.7037
1981-2007	Juli	394.3749	426.2238	553.0101	488.4519	686.1037
1981-2007	Agustus	262.9334	381.7054	517.0916	328.3741	589.5848
1981-2007	September	281.93	311.087	545.7226	437.8456	662.1733
1981-2007	Oktober	197.1454	84.82667	481.5441	375.1	565.6889
1981-2007	November	158.571	116.415	254.3844	215.7871	185.7423
1981-2007	Desember	198.8463	168.8774	233.3537	252.7563	24.69789
2010-2020	Januari	159.2978	157.5369	249.9891	216.4566	239.2082
2010-2020	Februari	169.5306	105.6834	268.8209	233.2155	35.70927
2010-2020	Maret	264.6491	206.4836	325.8936	347.3218	39.00173
2010-2020	April	270.32	248.5727	325.8518	316.8373	288.1355
2010-2020	Mei	389.6609	349.0218	683.3736	518.4609	537.4191
2010-2020	Juni	450.5964	446.7673	601.0427	581.3845	667.93
2010-2020	Juli	495.1418	474.7149	641.9527	582.9473	720.6673
2010-2020	Agustus	333.5023	505.374	583.9355	375.2345	646.2218
2010-2020	September	307.7435	332.5188	523.5539	412.2929	626.7782
2010-2020	Oktober	222.6753	100.1785	552.0727	412.5609	596.7482
2010-2020	November	200.3181	145.1376	314.2391	267.5634	268.0791
2010-2020	Desember	198.1545	196.2973	232.4782	242.5127	23.58118

Tahun	Bulan	Manokwari	Kaimana	Fakfak	Teluk Bintuni	Pegunungan Arfak
1981-2007	Januari	274.4974	243.0381	275.8644	240.1667	68.8813
1981-2007	Februari	242.5049	195.5052	272.817	213.2623	66.63263
1981-2007	Maret	310.0432	232.0374	283.817	209.9048	55.97989
1981-2007	April	351.6174	269.5589	310.3459	245.9144	197.0572
1981-2007	Mei	207.6663	295.9979	338.5656	254.77	229.2215
1981-2007	Juni	176.3521	227.9393	312.2106	201.2561	137.0366
1981-2007	Juli	146.8479	186.1365	267.4739	187.4757	193.0532
1981-2007	Agustus	155.237	179.9135	216.3427	155.0879	243.6672
1981-2007	September	128.5706	187.8161	257.5539	185.1686	130.9736
1981-2007	Oktober	111.6868	152.5875	243.7826	171.3597	181.1782
1981-2007	November	115.513	213.2489	191.7328	155.4204	104.912
1981-2007	Desember	336.5456	243.9519	267.7533	207.4167	77.39085
2010-2020	Januari	267.4527	247.2936	266.5	216.2255	64.16845
2010-2020	Februari	279.9725	237.6736	282.7982	246.81	70.13255
2010-2020	Maret	359.7855	290.3545	409.8336	270.9655	64.44109
2010-2020	April	367.7127	311.2591	350.3636	277.8727	208.72
2010-2020	Mei	221.11	370.0718	379.3445	258.0027	227.5664
2010-2020	Juni	197.9618	234.7855	330.8209	205.9827	145.3084
2010-2020	Juli	157.7583	224.6237	340.5078	193.9431	209.4749
2010-2020	Agustus	167.7492	197.9221	255.5092	171.3918	272.3571
2010-2020	September	128.0983	199.4114	248.0396	192.4885	122.934
2010-2020	Oktober	112.9455	168.6261	268.5763	155.8528	154.9044
2010-2020	November	162.6889	249.6082	214.4011	186.4255	130.3429
2010-2020	Desember	308.0845	238.4164	282.38	211.5791	72.53936

Tahun	Bulan	Merauke	Mappi	Asmat	Boven Digoel
1981-2007	Januari	276.8026	371.5804	312.2244	428.8544
1981-2007	Februari	231.2863	283.2763	303.6641	345.163
1981-2007	Maret	260.2552	373.8541	383.9148	469.2456
1981-2007	April	203.3295	444.1689	430.5189	504.5767
1981-2007	Mei	106.5185	411.1552	453.6702	391.8126
1981-2007	Juni	33.69049	448.0118	378.8615	344.079
1981-2007	Juli	22.32103	393.777	486.8204	348.124
1981-2007	Agustus	28.5263	335.5705	429.4985	305.0082
1981-2007	September	24.23272	305.7188	383.5407	294.8144
1981-2007	Oktober	33.76228	366.7056	375.9617	343.573
1981-2007	November	74.56987	341.69	252.2745	332.8727
1981-2007	Desember	203.0337	367.7133	324.3985	459.7619
2010-2020	Januari	273.0278	342.7518	389.1745	360.8664
2010-2020	Februari	264.3182	319.62	374.4264	355.2918
2010-2020	Maret	311.2627	385.0891	432.0836	468.5136
2010-2020	April	201.8827	482.5782	559.4373	513.2455
2010-2020	Mei	138.73	606.0318	590.27	539.3255
2010-2020	Juni	44.61618	493.4227	449.8855	431.5845
2010-2020	Juli	31.28018	436.2845	560.4873	390.0245
2010-2020	Agustus	33.14236	322.0777	469.87	317.8735
2010-2020	September	30.24706	362.9055	447.8284	373.5752
2010-2020	Oktober	41.24771	444.8664	463.1507	406.1664
2010-2020	November	73.71718	410.7764	314.3182	418.9118
2010-2020	Desember	203.5082	388.9664	469.4209	441.3591

Tahun	Bulan	Mimika	Paniai	Nabire	Intan Jaya	Dogiyai
1981-2007	Januari	276.1356	248.7081	286.1293	200.96	239.6011
1981-2007	Februari	109.4335	332.9963	199.6359	333.8085	227.9226
1981-2007	Maret	457.7852	252.4663	229.9307	264.3211	142.4854
1981-2007	April	394.11	257.9537	257.9523	300.1659	252.6178
1981-2007	Mei	347.7	258.513	247.97	325.5267	274.9637
1981-2007	Juni	425.243	327.8467	425.8344	331.2456	318.4559
1981-2007	Juli	500.383	342.4616	390.6967	367.2801	310.168
1981-2007	Agustus	351.2134	284.4503	377.6333	230.3345	231.2489
1981-2007	September	323.603	297.9459	307.7407	335.9052	200.9693
1981-2007	Oktober	279.1304	268.59	288.1852	291.647	272.55
1981-2007	November	266.4552	206.293	217.3224	205.2385	184.6074
1981-2007	Desember	245.1056	237.2741	205.4263	259.6326	217.4256
2010-2020	Januari	334.2355	279.7627	327.3445	254.0491	282.0491
2010-2020	Februari	130.1657	430.3018	308.4	407.9373	325.9455
2010-2020	Maret	592.8727	311.8082	309.1955	364.9291	187.0123
2010-2020	April	603.2427	376.9491	388.0355	439.2482	381.6964
2010-2020	Mei	452.9609	313.6745	332.3991	363.9573	373.2627
2010-2020	Juni	506.0245	349.4873	453.3245	376.0264	333.7091
2010-2020	Juli	554.1291	390.8855	426.8464	397.7809	372.1955
2010-2020	Agustus	455.2355	333.7291	437.9218	291.6955	268.2978
2010-2020	September	386.7773	341.9682	354.9645	401.7155	245.1068
2010-2020	Oktober	342.3927	303.9209	297.8559	369.8491	283.3655
2010-2020	November	409.63	305.7755	278.4136	284.4627	263.08
2010-2020	Desember	335.8582	316.6891	292.7582	311.2864	271.2891

Tahun	Bulan	Jaya Wiyaja	Pegunungan Bintang	Lany Jaya	Nduga	Tolikara
1981-2007	Januari	183.0896	240.4044	154.3927	308.0848	258.7652
1981-2007	Februari	231.2267	286.937	222.7541	170.53	236.3685
1981-2007	Maret	248.57	288.6433	190.9644	492.8633	281.4541
1981-2007	April	217.5922	338.93	231.1152	373.2285	273.5189
1981-2007	Mei	214.1993	230.5093	250.4548	370.4	245.6656
1981-2007	Juni	111.3598	162.3964	87.95841	338.3174	220.5922
1981-2007	Juli	153.141	225.1241	135.3969	348.1986	261.2711
1981-2007	Agustus	104.045	177.7457	76.81033	308.3278	220.9874
1981-2007	September	112.0871	220.2967	86.21096	233.6623	237.4704
1981-2007	Oktober	107.3974	228.847	139.0381	263.5716	214.0833
1981-2007	November	136.5723	163.309	145.8485	243.0219	174.698
1981-2007	Desember	164.0969	231.0156	186.4593	289.813	204.0804
2010-2020	Januari	208.1591	234.7364	196.7464	352.1491	294.5145
2010-2020	Februari	247.7118	290.31	246.67	190.1709	233.1727
2010-2020	Maret	280.7764	296.7736	223.4782	567.0855	287.9618
2010-2020	April	256.3964	329.1673	276.3355	470.5273	281.7691
2010-2020	Mei	248.2718	233.4927	271.8518	397.6536	234.6055
2010-2020	Juni	121.6015	153.4402	99.90145	394.4718	239.5455
2010-2020	Juli	138.7957	185.8373	125.3335	334.024	230.8682
2010-2020	Agustus	99.09936	149.8294	76.87773	324.9018	209.23
2010-2020	September	120.414	220.1709	97.86127	263.7303	248.0673
2010-2020	Oktober	141.4983	216.0553	177.7949	335.6219	241.0855
2010-2020	November	169.1327	165.2791	195.7373	315.8473	203.8027
2010-2020	Desember	192.8555	208.6655	238.8264	347.9745	203.3145

2. Data rata-rata Curah Hujan Juni, Juli, Agustus

Tahun	Jayapura	Biak Nufor	Sarmi	Kerom	Waropen
1981	102.8607	192.7033	215.89	152.93	383.4867
1982	107.651	94.01267	202.0233	159.1667	244.917
1983	123.3967	231.23	219.2567	148.12	410.3833
1984	133.2677	276.6767	300.19	130.4763	498.2133
1985	155.18	321.9967	325.3767	189.0533	570.5633
1986	154.2967	214.64	301.31	176.8533	420.1533
1987	67.95033	158.2467	113.5233	134.9347	332.47
1988	163.0767	273.53	355.6467	192.8767	605.8667
1989	122.7517	288.4233	279.1267	143.8233	496.0367
1990	125.9167	181.42	235.4867	158.1267	399.4333
1991	140.22	183.6433	210.4433	147.88	343.3833
1992	116.6213	222.1	207.7133	180.8467	412.0433
1993	92.98633	179.24	156.58	155.14	410.5367
1994	115.3093	184.1333	222.91	160.2967	416.74
1995	93.95033	231.8567	209.42	110.5687	400.0267
1996	102.074	228.6667	234.8033	108.1803	372.8133
1997	72.927	110.1377	140.016	88.635	237.4217
1998	71.90567	295.7967	187.45	82.96867	412.7733
1999	135.7967	264.33	269.3467	147.5333	454.81
2000	158.7733	268.6767	304.01	181.7933	447.4367
2001	91.30733	153.7967	170.0633	108.087	335.17
2002	91.053	181.387	198.89	119.1367	323.3867
2003	138.9247	257.12	301.2067	132.63	552.9833
2004	76.104	140.201	175.4967	87.304	310.34
2005	133.2143	202.9	264.9533	163.0667	468.8
2006	144.0167	217.42	275.9367	166.4	415.64
2007	113.1713	288.43	267.8833	138.6417	434.4833
2008	113.9863	268.63	283.4233	156.5437	562.2667

2009	141.4567	234.7667	271.5967	174.87	520.15
2010	79.58767	261.7667	179.57	100.8567	432.81
2011	157.26	296.05	271.46	178.5767	508.27
2012	115.319	255.9	244.1167	142.88	488.5533
2013	126.4633	279.6467	274.0967	139.8733	499.8333
2014	122.0327	214.4033	234.76	141.4713	487.8467
2015	77.56833	122.371	152.6817	107.7303	303.7267
2016	105.6093	208.34	200.2733	108.974	403.13
2017	137.1233	325.06	286.64	156.86	598.9267
2018	104.1223	198.7367	227.8467	121.5557	411.13
2019	92.473	165.0333	183.6133	122.2967	360.49
2020	85.07333	238.1233	214.16	105.4953	436.0633
2021	93.39133	246.6633	196.9933	110.7207	431.5533

Tahun	Kota Sorong	Raja Ampat	Sorong Selatan	Sorong	Tambrau
1981	280.64	309.7067	507.3667	384.9067	558.6633
1982	88.75767	88.19817	247.544	176.911	270.7067
1983	527.01	671.7567	769.69	751.3867	910.05
1984	543.9567	695.68	756.8267	660.47	844.5867
1985	476.7333	601.14	728.6833	553.1767	862.7333
1986	272.51	316.3733	487.9933	336.8	594.6633
1987	128.8867	192.74	364.1167	252.4133	448.7367
1988	512.2133	622.21	717.0433	557.1967	666.01
1989	502.6367	664.64	820.4833	672.4233	903.5333
1990	382.35	356.2267	619.4267	474.1733	717.77
1991	157.0433	239.5333	340.4233	234.1267	498.6833
1992	239.79	285.1033	505.1133	367.14	644.71
1993	213.6667	242.72	370.8733	305.6767	532.19
1994	243.185	203.8377	412.3467	350.74	551.27

1995	465.86	413.76	607.9133	568.0267	568.47
1996	466.0667	523.1833	635.03	565.44	701.6967
1997	153.437	188.7033	217.6547	190.0963	381.9133
1998	545.1767	569.7333	952.63	766.3833	859.1767
1999	400.05	454.6667	653.0233	546.4567	762.6567
2000	430.0067	483.5033	703.0633	580.3033	743.8633
2001	205.36	223.1033	353.0267	308.62	421.8633
2002	182.1477	211.1113	368.52	293.755	385.9567
2003	328.49	393.07	507.06	436.75	585.4167
2004	172.447	208.8927	303.7367	237.1227	344.8067
2005	334.7367	413.2467	487.15	436.97	560.09
2006	198.4917	253.5567	351.9933	309.2733	460.8367
2007	683.5133	788.3667	971.27	878.9433	998.4767
2008	609.53	697.11	806.6433	710.3867	802.12
2009	305.76	377.4467	592.92	484.0967	699.4567
2010	511.63	506.2067	650.13	550.4633	577.8133
2011	431.7933	470.7533	679.7367	535.26	891.7533
2012	522.6533	675.9067	727.8867	658.0933	749.0633
2013	474.16	604.4633	672.3633	511.1267	831.9267
2014	345.3733	480.0667	613.6233	492.12	710.0133
2015	209.1703	206.8297	327.4767	292.1667	320.8133
2016	509.6	549.6	750.5	607.8567	810.85
2017	551.82	560.98	767.11	620.6433	824.4467
2018	304.5733	367.7033	480.66	394.5367	533.6433
2019	286.288	304.3863	417.97	372.3667	554.53
2020	543.4867	504.91	611.29	610.4433	656.15
2021	478.49	556.32	681.2367	569.5667	717.52

Tahun	Manokwari	Kaimana	Fakfak	Teluk Bintuni	Pegunungan Arfak
1981	158.2767	158.1937	274.9967	175.95	201.4867
1982	73.96667	64.22067	89.80267	73.514	76.91567
1983	206.22	246.2	340.14	217.5133	268.38
1984	174.48	235.9367	291.1167	194.0467	210.157
1985	249.1367	409.67	416.71	270.79	271.92
1986	167.0233	300.1033	288.9467	184.2267	193.5133
1987	131.2533	85.43933	90.95267	97.48233	145.938
1988	186.3933	252.2133	292.2833	229.01	239.2667
1989	231.3367	348.1967	514.82	270.6433	275.6833
1990	158.0967	287.5633	408.1967	257.66	226.3967
1991	119.9887	99.363	140.5	88.92	114.431
1992	159.4767	173.8967	194.88	156.2567	205.9833
1993	118.8443	125.1787	136.1353	121.4697	111.1833
1994	114.2787	142.032	185.1577	131.0287	141.9783
1995	164.6567	203.84	246.1767	237.67	215.8633
1996	181.7667	167.1867	306.57	164.3603	189.2367
1997	76.38467	100.054	148.4597	94.031	88.34667
1998	220.0567	281.0233	488.83	265.9567	300.41
1999	236.2767	233.1333	452.4633	251.6667	277.3433
2000	202.6333	220.3967	363.9333	223.4367	232.3967
2001	101.2157	163.4303	242.51	127.4057	140.1233
2002	125.797	169.4713	183.4947	138.088	134.8467
2003	156.7233	162.3173	174.04	179.2033	198.8067
2004	88.97267	124.659	123.3957	115.072	116.5603
2005	142.4313	166.4787	198.6403	197.701	172.2993
2006	135.3433	177.8227	213.422	148.2917	141.53
2007	224.9033	247.8833	357.67	282.9833	272.8167
2008	175.2467	270.8133	355.29	248.0333	252.1967

2009	177	218.0667	270.3733	191.03	207.1567
2010	178.1167	304.12	338.8367	259.6867	271.94
2011	269.3233	217.1567	285.3433	268.4367	326.6933
2012	197.3833	281.69	396.8667	243.03	229.8567
2013	202.9467	294.2233	495.3967	207.8233	247.3967
2014	148.7033	168.8367	211.2967	155.3833	174.4273
2015	86.437	79.63767	106.2357	90.35233	79.99633
2016	185.78	278.73	450.7033	198.3367	209.1067
2017	237.37	300.6667	453.2233	256.16	310.3033
2018	128.41	167.2167	216.4733	140.5667	152.0933
2019	132.4737	129.0403	179	105.0357	128.1743
2020	152.4433	188.8967	265.03	170.02	169.5267
2021	195.5267	298.7867	410.3033	203.6067	231.9067

Tahun	Merauke	Mappi	Asmat	Boven Digoel
1981	26.63267	620.5367	565.8767	429.3333
1982	16.93753	175.4173	213.9807	174.0173
1983	25.22933	426.06	384.0233	358.3467
1984	27.92467	543.98	573.0033	499.95
1985	23.06533	575.1367	708.3733	505.9167
1986	32.93367	539.41	513.5533	421.7233
1987	14.73867	143.8453	186.54	149.04
1988	35.84	754.33	1063.467	554.69
1989	42.641	392.7567	495.7667	309.3467
1990	47.534	456.7433	469.9	444.2933
1991	22.03267	405.5547	441.6633	420.8493
1992	26.99167	398.9867	428.4433	339.8167
1993	19.902	247.4267	247.2333	223.5133
1994	19.12233	315.9233	313.8367	290.1233
1995	19.42133	331.2533	282.1733	299.3167

1996	19.43877	277.9233	375.6967	252.1
1997	26.25967	184.2973	249.207	255.2127
1998	37.09333	606.5767	640.2833	463.6867
1999	29.17467	437.15	433.6067	271.91
2000	22.08467	445.9167	428.9133	317.3233
2001	20.08533	307.1067	293.56	223.24
2002	26.10777	214.211	202.5833	178.4423
2003	23.009	367.54	478.95	284.112
2004	17.30933	120.8813	113.2997	113.3993
2005	34.77533	382.0633	518.9933	352.8847
2006	49.42967	421.4567	431.94	380.1083
2007	55.126	503.75	601.7567	462.205
2008	43.19	645.5267	800.31	469.7567
2009	35.83833	445.5867	487.9567	347.3933
2010	67.82433	558.2933	788.2333	481.15
2011	25.45333	375.6567	399.89	286.9133
2012	43.17633	501.2267	532.6033	516.32
2013	46.00733	465.0167	638.4433	489.5467
2014	22.22567	404.5167	434.6767	308.56
2015	21.07233	195.8183	247.6633	193.9593
2016	65.85267	466.2567	480.3567	479.0433
2017	26.08667	528.9167	700.15	496.68
2018	21.31833	337.5567	354.2967	263.55
2019	28.2	233.9533	279.2833	243.72
2020	32.59167	522.6667	571.96	418.66
2021	49.765	623.9533	757.9433	504.5667

Tahun	Mimika	Paniai	Nabire	Intan Jaya	Dogiyai
1981	415.3467	251.4167	280.5767	270.2367	223.2133
1982	175.02	172.4773	178.0573	190.848	125.5823
1983	363.5667	303.86	426.71	299.04	328.4433
1984	505.23	405.51	432.4733	419.74	343.49
1985	683.66	401.0267	645.1767	452.67	393.1367
1986	432.9933	342.3167	450.6367	330.7833	361.65
1987	229.2233	230.7433	206.5733	231.7967	203.84
1988	1010.563	392.8367	570.5433	460.14	407.2
1989	634.0367	390.5767	576.9133	377.1167	444.5
1990	390.42	333.14	444.0767	310.2	313.18
1991	266.0567	252.54	317.0033	255.11	201.1133
1992	359.7467	304.0167	408.4833	275.2133	233.5167
1993	295.8133	301.96	364.7933	275.64	209.8167
1994	304.85	326.23	421.65	325.6133	254.4133
1995	472.04	298.8	503.6233	313.9433	288.93
1996	424.3433	293.7133	372.95	267.91	239.9167
1997	225.834	205.913	209.0633	197.4807	171.1423
1998	556.0967	361.5467	541.1633	280.03	383.4067
1999	447.74	344.5133	466.0367	312.04	301.4967
2000	445.8633	330.0267	467.3	278.28	372.04
2001	335.15	277.66	275.19	230.88	238.1267
2002	287.0467	247.29	318.45	246.2433	232.6033
2003	612.57	480.1867	436.12	447.78	348.67
2004	200.2333	249.4267	264.6033	245.45	184.4967
2005	542.9133	401.2633	399.6533	416.6267	294.7433
2006	393.35	332.85	345.1867	327.51	277.8267
2007	481.8467	360.9867	424.4733	321.42	362.36
2008	745.6667	436.2733	584.1567	476.68	428.5767
2009	584.83	453.13	443.79	416.3733	349.52

2010	658.8133	362.38	503.8767	289.1733	420.28
2011	490.8833	434.2433	534.86	424.4033	365.8467
2012	552.9333	414.11	477.9667	386.0767	366.3933
2013	552.3233	378.4133	572.07	404.9833	347.2033
2014	434.19	336.7367	384.69	332.5133	277.4233
2015	327.77	252.11	237.0033	292.3733	197.341
2016	517.4067	342.5433	456.94	308.85	350.1533
2017	774.2433	509.4667	606.9667	494.0033	452.13
2018	356.05	297.15	362.16	318.9867	267.7567
2019	292.4	276.4933	284.8967	335.3767	198.6343
2020	599.4133	334.7267	411.5767	320.1033	328.9133
2021	593.41	309.9433	543.28	298.1233	380.8233

Tahun	Jaya Wiyaja	Pegunungan Bintang	Lany Jaya	Nduga	Tolikara
1981	124.7537	218.71	101.985	398.7667	212.8033
1982	91.13967	208.7367	66.12	198.1283	193.69
1983	119.11	248.9733	97.701	375.5233	278.7633
1984	202.8847	208.3733	152.8237	428.84	329.18
1985	176.982	250.5067	156.5513	428.9533	339.3967
1986	112.9683	279.4967	96.376	322.9433	283.4033
1987	69.76533	174.7467	58.37833	175.5867	174.2133
1988	204.15	221.1767	168.5067	827.74	399.2667
1989	153.2273	167.4	124.7013	400.6767	255.6933
1990	133.851	242.6767	106.871	378.8833	215.8333
1991	99.45267	244.7833	79.202	249.88	202.37
1992	99.81433	241.4333	78.172	279.56	222.9833
1993	109.9623	181.9433	86.27067	221.68	211.21
1994	126.4567	216.33	96.29767	248.6867	222.1567
1995	114.0167	146.86	90.76133	272.5033	197.8967

1996	88.189	130.3557	69.83767	310.8633	182.96
1997	86.07667	135.2503	69.74067	191.0833	137.7903
1998	91.50467	115.466	73.45133	412.6933	152.6233
1999	116.395	172.62	90.06133	314.9767	224.3733
2000	113.892	162.9933	83.834	304.91	270.3733
2001	108.6413	136.35	86.69533	274.7267	180.4333
2002	95.535	145.8167	75.99867	214.099	189.66
2003	183.342	173.189	153.324	428.76	302.4
2004	90.36567	149.7	75.46833	142.9533	177.29
2005	158.2867	168.4567	146.3533	448.2133	275.7967
2006	132.5267	193.2833	122.7317	315.35	256.5533
2007	113.6233	151.768	93.276	386.6133	236.5433
2008	133.979	177.8433	109.154	498.2067	287.45
2009	148.3167	186.12	150.674	391.6167	284.2367
2010	80.57367	120.9137	67.979	454.76	173.37
2011	146.85	222.0167	117.865	348.92	288.1
2012	161.2367	200.5333	128.4633	398.02	264.05
2013	153.23	175.6867	128.9123	412.84	264.58
2014	129.2717	173.51	118.5293	362.47	247.95
2015	67.68567	111.0743	57.83167	204.3447	156.85
2016	96.46233	162.9033	76.281	299.0467	175.87
2017	127.957	150.3233	119.9263	455.5633	274.1233
2018	127.491	155.3037	97.15667	263.39	221.3
2019	127.5117	174.2	108.375	273.5867	218.3067
2020	99.88433	146.9267	86.42667	389.5167	207.5267
2021	92.93533	133.5487	74.87133	405.0667	176.85

3. Data rata-rata ENSO Nino 3.4 bulan Juni, Juli, dan Agustus tahun 1981-2021

1981	-0.25333
1982	0.83
1983	0.126667
1984	-0.56667
1985	-0.62
1986	0.106667
1987	1.353333
1988	-1.48
1989	-0.56333
1990	0.106667
1991	0.566667
1992	0.216667
1993	0.376667
1994	0.316667
1995	-0.09
1996	-0.18667
1997	1.563333
1998	-0.65
1999	-0.92333
2000	-0.56
2001	-0.05667

2002	0.65
2003	0
2004	0.403333
2005	0.056667
2006	0.163333
2007	-0.36667
2008	-0.17333
2009	0.6
2010	-0.94667
2011	-0.38
2012	0.413333
2013	-0.3
2014	0.25
2015	1.57
2016	-0.22333
2017	0.086667
2018	0.146667
2019	0.42
2020	-0.22333
2021	-0.21333
2021	-0.21333

4. Data Koordinat Lokasi Penelitian

Provinsi	Lokasi	Latitude	Longitude
Papua	Stasiun Meteorologi kelas I Bandar Udara Internasional Sentani, Kabupaten Jayapura	-2.570093301	140.513117
	Stasiun Meteorologi Kelas I Bandar Udara Internasional Frans Kaisiepo, Kabupaten Biak Nufor	-1.1910683	136.1057816
	Stasiun Meteorologi Kelas III Bandar Udara Mararena, Kabupaten Sarmi	-1.879372645	138.7534039
	Bandar Udara Senggi, Kabupaten Keerom	-3.4460136	140.7772234
	Kabupaten Waropen	-2.843572	136.670534
Papua Barat Daya	Stasiun Meteorologi Kelas I Bandar Udara Internasional Domine Eduard Osok, Kota Sorong	-0.891003909	131.2909035
	Bandar Udara Marinda, Kabupaten Raja Ampat	-0.420397427	130.8267759
	Bandar Udara Teminabuan, Kabupaten Sorong Selatan	-1.45	132.017
	Kabupaten Sorong	-1.1	131.51667
	Kabupaten Tambrauw	-0.60515	132.48962
Papua Barat	Stasiun Meteorologi Kelas III Bandar Udara Rendani, Kabupaten Manokwari	-0.89367	134.05064

	Stasiun Meteorologi Kelas III Bandar Udara Utarom Utarom, Kabupaten Kaimana	-3.644444	133.695278
	Stasiun Meteorologi Kelas III Bandar Udara Torea, Kabupaten Fakfak	-2.920304	132.265326
	Bandar Udara Bintuni, Kabupaten Teluk Bintuni	-2.10416	133.522
	Kabupaten Pengunungan Arfak	-1.155456	133.714248
Papua Selatan	Stasiun Meteorologi Kelas III Bandar Udara Internasional Mopah, Kabupaten Merauke	-8.520277778	140.4183333
	Bandar Udara Senggo, Kabupaten Mappi	-5.6905959	139.3494579
	Bandar Udara Ewer, Kabupaten Asmat	-5.493198364	138.0849975
	Stasiun Meteorologi Kelas III Bandar Udara Tanah Merah, Kabupaten Boven Digoel	-6.100668039	140.3068075
Papua Tengah	Stasiun Meteorologi Kelas III Bandar Udara Internasional Mozes Kilangin, Kabupaten Mimika	-4.527382	136.89004
	Stasiun Meteorologi Kelas III Bandar Udara Enarotali, Kabupaten Paniai	-3.9258	136.3838889
	Stasiun Meteorologi Kelas III Bandar Udara Douw Aturure, Kabupaten Nabire	-3.3669122	135.4981345

	Bandar Udara Bilogai, Kabupaten Intan Jaya	-3.7395623	137.0319626
	Kabupaten Dogiyai	-4.0386	135.43945
Pegunungan Tengah	Stasiun Meteorologi Kelas III Bandar Udara Wamena, Kabupaten Jaya Wiyaja	-4.094479	138.949543
	Bandar Udara Oksibil, Kabupaten Pegunungan Bintang	-4.5807974	140.5159122
	Bandar Udara Tiom, Kabupaten Lanny Jaya	-3.9259995	138.4560377
	Bandar Udara Kenyam, Kabupaten Nduga	-4.601111	138.383056
	Bandar Udara Bokondini, Kabupaten Tolikara	-3.7166667	138.65