#### ITVoyagers (<u>itvoyagers.in</u>) itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in

#### Download resources from below link.

itvovagers in it

#### Open "QGIS Desktop 2.8.1". Go to

itvoyagers in itvoyagers in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

### And select "us.tmax\_nohads\_ll\_201405\_float.tif" and open it.

	🔏 QGI	IS 2.8.1-Wien	_	_										- 0 ×
	Project	Edit View	Lay	er Settings Plugins Vector	Raster Data	abase	Web Processing Help							
ta na			4	Create Layer	,		💭 💭 🗛 🖳 🔍	Q. Q	3 🚽 🖌	🖩 🖾 🖬 •	· 💭 📫 🗂 丿	T - 📘 🏹		
1918	1 10			Add Layer	•	• V <sub>a</sub>	Add Vector Layer	Ctrl+Shift+V						
	: <i>III</i> -	/ <b>.</b>	E	Embed Layers and Groups			Add Raster Layer	Ctrl+Shift+R						
	9			Add from Layer Definition File		<b>Q</b>	Add PostGIS Layers	Ctrl+Shift+D						
			63	Copy style		Po	Add SpatiaLite Layer	Ctrl+Shift+L						
	V	An an a		Paste style			Add MSSQL Spatial Layer	Ctrl+Shift+M						
						<b>Q</b>	Add Oracle Spatial Layer	Ctrl+Shift+O						
	-			Open Attribute Table		6	Add WMS/WMTS Layer	Ctrl+Shift+W						
			/	Toggle Editing		-	Add Oracle GeoRaster Layer							
	Pa		6	Save Layer Edits			Add WCS Layer							
			11	Current Edits	•	Va	Add WFS Layer							
1.86				Save As		9,	Add Delimited Text Layer							
- T 3		Shortest path		Save As Layer Definition File					_					
	•	Start		Remove Layer/Group	Ctrl+D									
				Duplicate Layer(s)										
	C.	Stop		Set Scale Visibility of Layer(s)										
		Stop	-	Set CRS of Layer(s)	Ctrl+Shift+C									
	(V?)			Set Project CRS from Layer										
		Criterion		Properties										
	70	Length		Query	Ctrl+F									
	V	Time	(866)	Labeling										
	e de la	Calculat	e 00	Add to Overview										
	LH 🐼		~	Add to overview										
une.	_		8	Remove All from Overview										
<b>T</b> 3	8													
	O <sub>EE</sub>		۲	Show All Layers	Ctrl+Shift+U									
	b <sup>B</sup>		0	Hide All Layers	Ctrl+Shift+H									
	100		۲	Show Selected Layers										
	M.2		0	Hide Selected Layers										
	¥	snortest pa	m	Di UNSEI		_					1 [			<b>A</b>
						_	Coordinate:		-1.699,0.679		Scale 1:1,508,8	31 ∨ Rotation: 0.0	) 🕀 Kend	er 👽 EPSG:4326 🗨
	Ŧ	О Туре	e here	e to search	Q	Шi	📄 🗾 💋	<b>,</b> ()	🥰 📔	w]	<b>I</b> 4	- Q	к <sup>q</sup> ^ 🛎 (і.	↓ 11:42 ↓ 10-03-2019 ↓

Now we can view raster image data by clicking on "Identify feature" button and just click on random places in raster layer. In identify result window it will display the data for that particular pixel.

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



Select "Custom delimiters", check "Tab" checkbox and select "INTPTLONG" & "INTPTLAT" in "X field" & "Y field" respectively. Then click on "OK".

	Oyage S 2.8.1-Wien	rs (itvoyagers	<u>.in)</u>			the the sec		<sup>an</sup> itvovagers in
Project	Edit View La	yer Settings Plugins Vector Rast	er Database Web Processing Help		c == +== -			ero jogen sin
					°≣ 🖾 🛲 • 🖵	li ⊥ • <b>1</b> №?		
<i>III</i> -			be abe abe abe abe com	🛃 🛱				
<b>-</b> 6	ir ir ir		🏑 Create a Layer from a Delimited Text Fil	e		? ×		
V	Layers	8×	File Name E:/Sarvasva/QGIS/8/b/2013_Gaz_u	ua_national.txt		Browse		
	🔮 🤏 🔻		Layer name 2013_Gaz_ua_national		Encoding UT	F-8 🔻		
(P)	• 🗠 📑 <u>us.tn</u>	lax nonads II 20140525 float	File format O CSV (comma separate	d values)   Custom delimiters	B O Regular exp	ression delimiter		
	31.94	71	Other delimiters	Tab Space	Colon Escape "	Semicolon		
			Record options Number of header lines to	discard 0 🗣 🗹 First recor	d has field names			tvoyagers.in
			Field options 🗌 Trim fields 🗌 Discard	d empty fields 🗌 Decimal separ	ator is comma			, .
	Shortest path	8×	Geometry definition   Point coordinates	O Well known text (	(NKT) O No geometry (	(attribute only table)		
	Start		X field INTPTLONG	Y field INTPTLAT	DMS coordinates			
		*	GEOID NAME	UATYPE ALAND AWATER	ALAND SOMI AWATER SOMI		1.00	
	Stop		1 00037 Abbeville, LA Urban Cluster 0	29222236 300497	11.283 0.116	29.967224 -	1000	
9	Criterion	Length -	2 00064 Abbeville, SC Urban Cluster C 3 00091 Abbetford WI Urban Cluster C	11279155 19786 5363428 13221	4.355 0.008	34.179237 -	1000	
₹ <u></u>	Length		4 00118 Aberdeen, MS Urban Cluster C	7416537 52820	2.864 0.020	33.824742 -		
ITVC 🏭	Time		5 00145 Aberdeen, SD Urban Cluster C	33124147 120864	12.789 0.047	45.463186 -		tvoyagers.in
	Calculate	Export Clear	<ul> <li>6 00172 Aberdeen. WA Orban Cluster C</li> </ul>	39997945 1929686	15.443 0.745	46.9763651-1		, .
		🔀 Help			01/ 07-17-1			
Č,					OK Cancel	нер		
b								
V								
*	Shortest path	Browser	Constructor [		5.04 Sec.	de Luzze de la Deteñen la		20.4226
idea a ser a s		an an Tana Talaya	Coordinate.	-110.79,5	5.61	.:17,776,445 V Kotadon. 0	u v Kender v C	33.420
πνογ	age	<u>1210 IIV</u>	ovasetzni	LI ILVO?	vager s	um nuvo	vagers.	.m itvoyagers.m
Se	lect .	EPSG:432	h" IN T RS SA	OCTOP W				
					indow.			
					indow.			
缓 QGIS	5 2.8.1-Wien				indow.		-	o ×
💋 QGIS Project	S 2.8.1-Wien Edit View La	yer Settings Plugins Vector Rast	er Database Web Processing Help		indow.		-	0 ×
V QGIS Project	S 2.8.1-Wien Edit View La	ver Settings Plugins Vector Rast	er Database Web Processing Help	? ×	indow.	°° ⊂ T • 2 %	_	0 ×
QGIS Project	5 2.8.1-Wien Edit View La	yer Settings Plugns Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na	er Database Web Processing Help	? ×		° <mark>6</mark> °	-	0 ×
QGIS Project	52.8.1-Wien Edit View La	yer Settings Plugns Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na	er Database Web Processing Help	? ×		° ×	-	• ×
QGIS Project	2.8.1-Wien Edit View La	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter	er Database Web Processing Help	? ×		? × Browse	-	• •
QGIS     Project     D	S2.8.1-Wien Edit View La Edit V	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference	er Database Web Processing Help ector systems	7 ×		? × Browse F-3 →	-	tvoyagers.in
Colice Project	S2.8.1-Wien Edit View La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System 63 1936 / Brith National Grid	er Database Web Processing Heb ector tonal systems Authority ID EPS6/27700	? ×		?     ×       Browse       F-6       sentoden	-	tvoyagers.in
	S 2.8.1-Wien Edit Vew La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System SB 1936 / British National Grid rth_America_Albers_Egual_Area_Conic or UTUR Area Stall	er Database Web Processing Heb ector tonal systems Authority ID EPSG:102008 EPSG:27700 EPSG:102008	? ×	Encoding UT Colon Escape C	?     ×       Browse       ####################################		• • • tvoyagers.in
	S 2.8.1-Wien Edit Vew La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System SB 1936 / British National Grid rth_America_Albers_Equal_Area_Conic yo / UTM zone S4N S 84 / Pseudo Mercator	er Database Web Processing Heb ector tonal systems Authority ID EP5G:700 EP5G:700 EP5G:3005 EP5G:3005	? ×	Encoding UT Colon Escape - Shas field names	?     X       Browse       ####################################		• × tvoyagers.in
	S 2.8.1-Wien Edit View La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System SB 1936 / British National Grid th_America_Albers_Equal_Area_Conic gro / UTM zone 54N S8 / Pseudo Mercator rid_Azimuthal_Equidistant jS 84	er Database Web Processing Heb ector tonal systems Authority ID EPSG37700 EPSG3005 EPSG3005 EPSG3057 EPSG3057 EPSG3057	? ×	Encoding UT Colon Stas field names tor is comma	?     ×       Browse       ####################################		• × tvoyagers.in
	S2.8.1-Wien Edit Werw La Provide State Comparison Shortest path	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector tional systems Authority ID EPSG-2700 EPSG-2700 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-4020	? ×	Encoding UT Colon Escape · thas field names tor is comma XT) O No geometry ( V DMS coordnates	?     X       Browse       #       *		• ×
	22.1.1-Wien Edt Wew La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector tional systems Authority ID EPSG:2700 EPSG:2700 EPSG:3005 EPSG:3857 EPSG:34032 EPSG:4326	? ×	Encoding UTI Colon Colon Stas field names stor is comma XT7 O No geometry ( UMS coordnates (UMS coordnates (UMS coordnates)	?     ×       Browse       ####################################	50	tvoyagers.in
	S2.8.1-Wien Edt Wew La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector tional systems Authority ID EPSG:27700 EPSG:27700 EPSG:3005 EPSG:3857 EPSG:3857 EPSG:4326 EPSG:4326 EPSG:4326	? ×	Encoding UTI Encoding UTI Regular exp Colon Escape • thas field names tor is comma RTT ONS coordnates UMS coordnates UMS coordnates	?     ×       Browse       ####################################	5	tvoyagers.in
	22.1Wien Edt Wew La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector tonal systems Authonity ID EPSG:27700 EPSG:3005 EPSG:3857 EPSG:38	? ×	Encoding UTI Encoding UTI Regular exp Colon Encoding UTI Regular exp Colon Encoding UTI Regular exp DMS coordinates UM3 coordinates UM3 coordinates ALAND_SQMI AWATER_SQMI 11.283 0.116 4.355 0.009	?         X           Browse         F.8           Second		tvoyagers.in
	S2.8.1-Wien Edt View La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector itonal esystems Authority ID EPSG:27700 EPSG:32700 EPSG:3305 EPSG:36357 EPSG:36357 EPSG:4032 EPSG:4326 EPSG:4326	? ×	Encoding UT Encoding UT Colon Encoding UT Colon Encoding UT Colon Encoding UT Colon DMS coordinates UMAtch field ALAND_SQMI AVATER_SQMI 11.283 0.116 4.355 0.008 2.071 0.008	?       X         Browse       P         F-6       *         seniol deliniter       Senicolon         (attribute only table)       *         1       INIFILAT         29.67224       -         34.17227       -         44.996512       -		tvoyagers.in
	22.1Wien Edt View La P P P P P P P P P P P P P P P P P P P	ver Settings Plugins Vector Rast  Coordinate Reference System Sel  peorly CRS for layer 2013_Gaz_ua_na  Filte  Recently used coordinate reference  rdinate Reference System  Bi 1393 / British Nathers Equal Area_Conic  yo / UTM zone S4N  S84 / Pseudo Mercator  rdi Azimuthal Equidistant  is 84  Coordinate reference system  Voirol 1879 (Paris)  WGS 72  WGS 72  WGS 74	er Database Web Processing Heb ector tonal esystems Authority ID EPSG:27700 EPSG:27700 EPSG:3005 EPSG:	? ×	Encoding UT Encoding UT Encoding UT Colon Escape → thas field names stor is corma ACT DMS coordnates Watch file ALAND_SCMT AUXTER_SCMT UMSTRESCOM AUXTER_SCMT A	?       ×         ?       ×         Browse       F-8         *       *         senicolon       *         (attribute only table)       *         94.17227 - 44.99612 - 33.824742 - 4       *		tvoyagers.in
	S2.31-Wien Edt Vew La P P P P P P P P P P P P P	ver Settings Plugins Vector Rast	er Database Web Processing Heb ector tonal esystems Authority ID EPSG:27700 EPSG:32700 EPSG:3005 EPSG:3005 EPSG:3005 EPSG:34021 EPSG:4025 EPSG:405 EPSG:405	? ×	Colon     Escape     Colon	?         ×           Browse         F-8           F-8         ×           eesion delimiter         Senicolon           (attribute only table)         41.925.9224           94.17227         -           44.996312         -           33.824742         -           45.963186         -		• • • tvoyagers.in
	Stortest path Stortest path Stortest path Stort Criterion Length Time Calculate	ver Settings Plugins Vector Rast  Coordinate Reference System Sel  peorly CRS for layer 2013_Gaz_ua_na  ritter  Recently used coordinate reference  ridinate Reference System  Ge 1390 / Britch National Grid  rid_America_Albers_fqual_Area_Conic  yo / UTM zone S4N  S84 / Seudo Mercator  rid_Aximuthal_Equidistant  S84 /  Coordinate reference systems of th  Coordinate Reference System  Voirol 1878 (Paris)  WGS 72  WGS 72  WGS 72  WGS 74  WGS 74  VGS 72  Selected CRS: WGS 84	er Database Web Processing Heb ector tional esystems Authority ID EPSG:27700 EPSG:32770 EPSG:34032 EPSG:34032 EPSG:4232 eworld Authority ID EPSG:4232 EPSG:422 EPS	? ×	Colon     Escope     Colon	?         ×           Prowse         ?           *         *		• × tvoyagers.in tvoyagers.in
	S2.3.1-Wien Edt Vew La 2 Edt Vew La 2 Edt Vew La 2 Edt Vew La 2 Edt Vew La 2 Stortest path Stort Criterion Length Time Calculate	yer Settings Plugins Vector Rast ✓ Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filte Recently used coordinate reference ordinate Reference System GB 139.0 / Britch National Grid rth_America_Albers_fqual_Area_Conic yo / UTM zone S4N S84 / Seudo Mercator rtd_Azimuthal_Equidistant S84 < Coordinate reference systems of th Coordinate Reference System Voirol 1878 (Paris) WGS 72 WGS 72 WGS 72 WGS 72 WGS 74 WGS 74 W	er Database Web Processing Heb ector tional esystems Authority ID EPSG:27700 EPSG:327700 EPSG:4032 EPSG:4032 EPSG:4032 EPSG:4032 EPSG:42 EPSG:42	? ×	Colon	?         X           Browse         Prowse           F-3         Resion deliniter           Semicolon         A           attribute only table)         A           4. JMPFLAT         A           3.624742         -           46.975355         -           Y         Y		• • • tvoyagers.in
	Szal-Wien Edt Wew La P P P P P P P P P P P P P	yer Settings Plugins Vector Rast ✓ Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filte Recently used coordinate reference ordinate Reference System GB 1396 / Britch National Grid rth_America_Albers_fqual_Ares_Conic yo / UTM zone S4N S84 / Seudo Mercator rtid_Azimuthal_Equidistant S84 ✓ Coordinate reference systems of th Coordinate Reference System Voirol 1878 (Paris) WGS 72 WGS 72 WGS 72 Selected CRS: WGS 84 +proj=longlat +datum=WGS84 +no_def	er Database Web Processing Heb ector tional esystems Authority ID EP5G:27700 EP5G:27700 EP5G:3203 EP5G:3032 EP5G:402 EP5G:402	? ×	Encoding UT     Escape     Colon     Col	?         ×           Browse         Provide           Provide         *           Browse         *           resion deliniter         *           Semicolon         *           attribute only table)         *           9.4179227         *           44.996512         *           33.824742         *           45.967324         *           46.975365         *           *         *		• • • tvoyagers.in
	S2.8.1-Wien Edt Wew La Edt Wew La Control of the second se	yer Settings Plugins Vector Rast ✓ Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System GB 1386 / Britch National Grid rth_America_Albers_fqual_Ares_Conic yo / UTM zone S4N S84 / Seudo Mercator rtid_Azimuthal_Equidistant S84 / Seudo Mercator rtid_Azimuthal_Equidistant S84 / Seudo Mercator vid_Azimuthal_Equidistant S84 / Seudo Mercator vid_S66 WGS 72 WGS 72 WGS 72 Selected CRS: WGS 84 +proj=longlat +datum=WGS84 +no_del	er Database Web Processing Heb ector tional systems Authority ID EP5G27700 EP5G27700 EP5G3267 EP5G326357 EP5G326357 EP5G4221 EP5G4221 EP5G4224 EP5G4226 IGNFrWG5726 IGNFrWG5726	? × 	Colon     Encoding UT     Colon     Eccape     Colon     Eccape     Colon     Eccape     Colon     Eccape     DMS coordnates     ON ogeometry (     DMS coordnates     ON ogeometry (     DMS coordnates     ON ogeometry (     ON ogeometr	?       ×         Browse       F8         resion delinter         Semicolon         (attribute only table)         49.179237         44.198212         33.824742         45.953635		• × tvoyagers.in tvoyagers.in tvoyagers.in
	S2.31-Wien Edt Wew La P P P P P P P P P P P P P P P P P P P	yer Settings Plugins Vector Rast	er Database Web Processing Heb ector tional systems Authority ID EPSG-2700 EPSG-2700 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-3005 EPSG-320 EPSG-320 IGNF:WGS725	? ×	Image: Constraint of the second	?       ×         Browse       F-8         Presion delinter         Semcolon         (attribute only table)         (attribute only table)         9.4179237		• • • tvoyagers.in tvoyagers.in tvoyagers.in
	S2.31-Wien Edt Wew La P P P P P P P P P P P P P P P P P P P	yer Settings Plugins Vector Rast ✓ Coordinate Reference System Sel Specify CRS for layer 2013_Gaz_ua_na Filter Recently used coordinate reference ordinate Reference System GB 1393 / Britch National Grid rth_America_Albers_fqual_Ares_Conic yo / UTM zone S4N S8 4/ \$euch Mercator rtid_Azimuthal_Equidistant S8 4/ < Coordinate reference systems of th Coordinate Reference System VGS 72 VGS 72 VGS 72 VGS 72 VGS 72 Coordinate Reference System VGS 72 VGS 72 VGS 72 VGS 72 VGS 72 VGS 74 Fproj=longlat +datum=WGS84 +no_def Browser	er Database Web Processing Heb ector tional systems Authority ID EP5627700 EP56327700 EP56326357 EP563422 EP563422 EP563422 EP563422 IGNF:W65726 IGN	? ×		?       ×         Browse       Pression delinter         Semicolon       .         (attribute only table)       .         29.967224       .         94.179237       .         46.976385       .         *       .         Help       .		• × tvoyagers.in tvoyagers.in tvoyagers.in

Now add "Point sampling tool" plugin. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



Once plugin is installed go to.

#### Plugins > Analyses > Point sampling tool



Now we have to select the few attributes, we are selecting GOID, NAME and Band 1.

Give output file name and path by clicking on "Browse". Then click on "OK". itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



Yes our output layer is ready. Now select "Identify feature" tool and click on any point from output layer and after that deselect output layer and try clicking on same area in raster layer you will get similar results.



itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

## itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

### Now for polygon. Add "tl\_2013\_us\_county.shp" file

#### Layer > Add Layer > Add Vector Layer...



Now the problem is that the file is in different CRS we have to save the file in itvo **EPSG:4326** CRS Right click on layer and select **"Save As**gers in itvo yagers in



Give path and name to file and set "EPSG:4326" in CRS.

#### Check "Add saved file to map" checkbox and click on "OK".



itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



#### Once new layer is loaded go to

#### **Raster > Zonal statistics > Zonal statistics**



# By default it will fill all data. Here "zonalstate" will be prefix for the columns which will be created.

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



In style panel select "Graduated", in Column select "zmean", select "Quantile(Equal Count)" in mode, in select one ramp and click on "classify".



itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in