IRIS 2022 Seismolo	gy Skill Bullo	ling workshop USL	
Home ► My courses ► Miscella	aneous ► IRIS2022	SSBW ► August 29 - September	4 ▶ Jupyter Tutorial 4: GitHub and Removing the Instrument Response
	Star	rted on Saturday, September 10	3 2022 12:40 PM
Quiz navigation	Star	State Finished	7, ZOZZ, 1Z.+0 F M
1 2 3 4 5 6		eted on Sunday, September 11,	2022, 7:35 AM
7 8 9 10 11 12		e taken 18 hours 54 mins	
13 14 15 16 17 18		Marks 24.80/30.00 Grade 82.67 out of 100.00	
		51ade 62.07 Out 01 100.00	
19 20 21 22 23 24	Question 1	In this tutorial, we will explore h	now to obtain Jupyter notebooks from GitHub and specifically look at how to use a notebook to remove the instrument response from seismograms using ObsPy to
25 26 27 28 29 30	Correct		agnitude. As discussed in the webinar for this tutorial, you can also use SAC to remove the instrument response with the <code>transfer</code> command.
Show one page at a time	1.00 points out of		Read the Guide to start learning about GitHub. I like how the Guide is active, asking you to create an account with GitHub (github.com) and provides instructions for getting
Finish review	1.00		e you to create an account, I strongly encourage you to do so. It is my sincere hope that with the coding skills you have developed during this course, you will get a chance future classes, work, research, or even just for fun. And when you do, I hope you will share the code with others via GitHub.
	Flag question		n developing code based on what the guide explains?
		Create a branch	
		Clone a repository	not required V
		Change the code	
		Open a pull request	
		Merge a branch	
		Create a repository	
		Create a repository	
		Commit changes to the code	
		Check	
		Official	
		Correct	
		Marks for this submission: 1.00	V1.00.
	Question 2		pect of using GitHub is the ability to download code from it. However, I find that information about how to do this takes a few more clicks to find on the GitHub website. You
	Correct	can read about how to do this I	
	1.00 points out of 1.00		ub/creating-cloning-and-archiving-repositories/cloning-a-repository
	Flag question	This guide explains how to crea	ate a local copy of software that is stored on the GitHub website. Which of the following would be the command to download a repository of software on your OSL desktop
	i lag queetter.	Select one:	
		a. git download "https://gith	nub.com/username/repository"
		b. github create "https://git	hub.com/username/repository"
			com/username/repository" ✓
			ub.com/username/repository"
		e. git create "https://github	
			/github.com/username/repository"
			guida.com acomamo.repeditory
		Check	
		Correct	
		Marks for this submission: 1.00	/ 1.00.
	Question 3	This was a very brief introduction	on to GitHub, but hopefully it is enough to give you a flavor of how easy and useful it is. Let's go back to the main GitHub.com page and you should see a Search box in the
	Correct	upper left that says "Search or	jump to:". You can search for any variety of code on GitHub using this, but today I would like you to search for "local earthquake magnitude" as that is what we are
	1.00 points out of 1.00	interested in calculating today.	what repository do you find? account, you can still search for "local earthquake magnitude" on GitHub.com, but the search box will be in the upper right and say "Search GitHub"
	▼ Flag question	Note. Il you did not create an a	ccount, you can still search for local earthquake magnitude on Github.com, but the search box will be in the upper right and say "Search Github"
	i lag queetter.	Select one:	
		a. iris-edu/localmag	
		b. obspy/localmag	
		c. seismohio/localeqmag	
		d. seismohio/localmag	Correct. This is my GitHub account and the respository I made for this assignment.
		e. obspy/localeqmag	
		f. iris-edu/localeqmag	
		Check	
		Correct Marks for this submission: 1.00	V1 00
		Marks for this sabinission. 1.00	71.00.
	Question 4	Click on the respository that is	the answer to the previous question. Which files are included in this repository?
	Correct	Select one or more:	
	1.00 points out of 1.00	a. A Jupyter notebook	1 of 2 correct answers
	Flag question	□ b. A Python script	
		c. No files are present in the	nis repository vet
		d. Compiled code	is repositely yet
		■ e. A README file 1 of	E2 correct answers
			2 correct answers
		Check	
		Correct	
		Marks for this submission: 1.00	<i>l</i> /1.00.
	Question 5	What is the URL of this reposit	ory such that you can download it to your OSL desktop? Recall that it should have this format: "https://github.com/username/respository"
	Correct		
	1.00 points out of	Select one:	
	1.00 Flag question	a. https://git.com/seismohi	
	i iag question	b. https://git.com/localmag	
			nohio/localmag 🗸 Correct. This is what you will want to use in the next question.
		d. https://github.com/localr	
		e. https://github.com/seism	nohio/localmag/localmag.ipynb
		f. https://git.com/localmag/	
		g. https://git.com/seismohi	o/localmag
		h. https://github.com/localr	nag
		Check	
		Correct	
		Correct Marks for this submission: 1.00	W1.00.

Question 6
Correct

Now log into OSL and move into the jupyter directory you created in a previous assignment. Once you are inside the jupyter directory, which command do you type to download my GitHub repository to this directory? Type in the full command.

1.00 points out of 1.00	Answer: git clone "https://github.com/seismohio/localmag.git" ✓
Flag question	Check
	Correct Co chood and run this news with allows "bully as //withub as w/asi mashis /loss languages
	Correct. Go ahead and run this now: git clone "https://github.com/seismohio/localmag" Correct
	Marks for this submission: 1.00/1.00.
Question 7	What does running the command from the previous question create in the jupyter directory?
Correct	What does fullfilling the command from the previous question create in the jupyter directory:
1.00 points out of	Select one:
1.00	a. a file called localmag
Flag question	O b. a file called README.md
	C. a directory called git
	O d. a directory called clone
	e. a directory called seismohio
	● f. a directory called localmag ✓
	○ g. a file called localmag.ipynb
	O h. nothing
	Check
	Correct Marks for this submission: 1.00/1.00.
	Warks for the Sabrinssion. 1.50/1.50.
Question 8	What files are inside the directory that is created?
Correct	Select one or more:
1.00 points out of 1.00	a. jupyter
Flag question	□ b. seismohio
	□ c. Nothing
	☑ d. README.md ✓ 1 of 2 correct answers.
	✓ 1 of 2 correct answers.
	☐ f. localmag
	Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 9	Go ahead and run
Correct	jupyter notebook
1.00 points out of 1.00	and then choose to open the Jupyter notebook file with python. Which file is it?
Flag question	Select one:
1 3 4	○ a. seismohio
	O b. localmag
	○ c. README.md
	□ d. localmag.ipynb ✓
	○ e. jupyter
	Check
	Check Correct
	Check
	Check Correct
Question 10	Correct Marks for this submission: 1.00/1.00. When the Jupyter Notebook loads, you should see a brief introduction in a Markdown cell, and then a code cell with some imports. Many of these will look familiar from our previous tutorials, but there
Correct	Correct Marks for this submission: 1.00/1.00. When the Jupyter Notebook loads, you should see a brief introduction in a Markdown cell, and then a code cell with some imports. Many of these will look familiar from our previous tutorials, but there are a couple new ones as well. Which of the imports will be used for determining the distance between an earthquake and a station? You might want to use some web searching to help if you are not
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Correct 1.00 points out of 1.00 Flag question Question 11 Correct 1.00 points out of 1.00 Flag question Question 12 Correct 0.67 points out of 1.00	Correct Marks for this submission: 1.00/1 00. When the Jupyter Notebook loads, you should see a brief introduction in a Markdown cell, and then a code cell with some imports. Many of these will look familiar from our previous tubmals, but there are a couple new once as well. Which of the imports will be used for determining the distance between an earthquake and a station? You might want to use some web searching to help if you are not sure. Select once: a import os b from obsey import UTCDuteTime, read, read, inventory c from obsey import UTCDuteTime, read, read, inventory e from obsey delents from import opport from obsey delents from mans, downloader import CircularDomain. Restrictions, Mass Downloader Correct Marks for this submission: 1.00/1.00. Which of the imports will be used for downloading a large number of waveforms with a single command? a import os a import os a import os from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader c from obsey possed seas import gazdas; azimum c from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader c from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader c from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey import UTCDateTime, read, read, inventory f, from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from obsey import UTCDateTime, read, read, inventory f, from obsey clients listen mass, downloader import CircularDomain, Restrictions, MassDownloader from
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Correct 1.00 points out of 1.00 Flag question Question 11 Correct 1.00 points out of 1.00 Flag question Question 12 Correct 0.67 points out of 1.00	Correct Which of the imports will be used for downloading a large number of waveforms with a single comment? Select one: a import os from obspy priority (from near imports) (from n
Correct 1.00 points out of 1.00 Flag question Question 11 Correct 1.00 points out of 1.00 Flag question Question 12 Correct 0.67 points out of 1.00	Correct Marks for this submission: 1,001,00. When the Julyy Protector knows, you should see a hirel infoodcrin in a Markdown cell, and then a code cell with some imposts. Navy of these will look familiar from our previous tutorists, but there are a cought new ones as well. Which of the imports will be used for idetermining the distance between an earthcauke and a station? You might want to use some web searching to help if you are not sure. Solect one: a import os b. from distay import UTChale Time, read, read_inventory c. from objay genetic is import gistld in prot client d. from math import log 10 e. from objay genetic fish from insport gistld in prot Client find the imports will be used for downloading a large number of waveforms with a single command? Select one: a. import os b. from objay clients fish mass, downloader import ClicularDomain, Restrictions, MassDownloader **Correct** Which of the imports will be used for downloading a large number of waveforms with a single command? Select one: a. import os b. from objay clients fishs mass, downloader import ClicularDomain, Restrictions, MassDownloader **Correct** d. d. from objay clients fishs mass, downloader import ClicularDomain, Restrictions, MassDownloader **Correct** find the imports will be used for downloading a large number of waveforms with a single command? Select one: a. import os b. from objay clients fishs mass, downloader import ClicularDomain, Restrictions, MassDownloader **Correct** Correct** Marks for this submission: 1,001,00. Correct** Marks for this submission: 1,001,00. If you have not already done so, go ahead and Run the code in the imports Code cell. The next Mandown box describes that this notebook downloads a particular earthquake from the Eastern Timenessee Searing Zone toy default. If you go to the USGS website for this earthquake, what is the primary type of focal mechanism for this earthquake from the Eastern Timenessee Searing Zone toy default. If you go to the USGS website for this earthquake

Correct
Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question 13 Correct 0.80 points out of	Returning to the Jupyter notebook, you can Run the next Code cell that sets the variables for the earthquake catalog search that by default would return the Eastern Tennesse Seismic Zone earthquake. However, you should note that the Markdown cell above it describes that you could use this same code to calculate the local magnitude for an earthquake not in the catalog. Which information would you need to input for a non-catalog event to accomplish this?
1.00 Flag question	Select one or more:
riag question	a. event origin time 1 of 3 correct answers.
	 □ b. event moment magnitude □ c. event longitude 1 of 3 correct answers.
	✓ d. event latitude ✓ 1 of 3 correct answers.
	e. event focal mechanism
	Check
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.80/1.00 .
	Warks for this submission. 1.00/1.00. Accounting for previous thes, this gives 4.00/1.00.
Question 14 Correct	Now you can run the next Code cell that prints what is returned from the earthquake catalog search. I know it may be confusing that we will be determining the local magnitude of an earthquake that already has a magnitude calculated in the catalog, but this is just meant to be an educational example. It turns out though, that the type of magnitude reported in the catalog for this earthquake is different than a local magnitude (typically written as M _L), so we can compare the answer we get with that in the catalog to see if the different techniques result in a different answer. What is the magnitude
0.67 points out of 1.00	information that is reported in the catalog?
Flag question	Select one:
	a. 3.8 local magnitudeb. 3.72 body-wave magnitude
	C. 3.8 body-wave magnitude
	O d. 3.72 moment magnitude
	O e. 3.72 local magnitude
	● f. 3.8 moment magnitude Check
	Correct
	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 15	The next Code cell prepares the variables for the waveform search. What is the length of time in seconds that will be retrieved for each of the waveforms found in the search?
Correct 1.00 points out of	Answer: 60
1.00 Flag question	Check
, ,	Correct Marks for this submission: 1.00/1.00.
Question 16 Correct	When looking for waveforms that meet the criteria of the search, what is the radius away from the pre-defined latitude and longitude that will be searched. I am looking for an answer that is in kilometers.
1.00 points out of 1.00	Answer: 111 Check
Flag question	Correct
	Marks for this submission: 1.00/1.00.
Question 17	This Jupyter notebook uses the Mass_Downloader library of ObsPy, which you can read more about here:
Correct	https://docs.obspy.org/packages/autogen/obspy.clients.fdsn.mass_downloader.html
0.00 points out of 1.00	The code includes the domain and restrictions settings to help identify which stations meet the criteria for downloading a large set of waveforms. In this case, we will only be downloading a small set, but I wanted to introduce you to this library as many seismology research tasks these days involve processing large numbers of seismograms. You may recall that some stations have multiple types of
Flag question	channels and in some cases even multiple location codes at a single site. The Restrictions() function has priority options to help limit the waveforms you have to analyze from each station. Based on the priority settings in the Code cell, which of these network.station.location.channel codes would have the highest priority (the network.station.location.channel waveform that would be downloaded above all others)?
	Select one: a. IU.ANMO.10.HH2
	b. IU.ANMOBH2
	C. IU.ANMO.10.BH1
	◎ d. IU.ANMOHH2 ✓
	e. IU.ANMO.10.HHZ
	○ f. IU.ANMOBH1 ○ g. IU.ANMO.20.BHZ
	O h. IU.ANMO.10.BHZ
	i. IU.ANMO.20.HH2
	○ j. IU.ANMO.20.HH1
	○ k. IU.ANMOHHZ
	O I. IU.ANMO.20.BH1 Check
	Correct
	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.00/1.00 .
Question 18 Correct	The next Code cell is where the MassDownloader() function is actually called. It sends the domain and restrictions settings, but it also sets where the miniseed data and station metadata will be stored. Which of the following is true about the storage?
1.00 points out of 1.00	Select one or more:
Flag question	a. the miniseed data is stored in a directory called mseed
	b. the metadata is stored in a directory called metadata
	 c. the metadata is stored in the current directory d. the miniseed data is stored in a directory called miniseed
	e. the metadata is stored in a directory called stations 1 of 2 correct answers.
	f. the metadata is stored in a directory called stationxml
	g. the miniseed data is stored in a directory called waveforms 🗸 1 of 2 correct answers.
	h. the miniseed data is stored in the current directory
	Correct
	Correct Marks for this submission: 1.00/1.00.
Question 19	The output of the mdl.download() command will be shown in pink. Which of the following are FDSN clients that are searched by this command?
Correct 0.67 points out of	Select one or more:
1.00	✓ a. GFZ ✓ 1 of 5 correct answers
Flag question	b. NCEDC 1 of 5 correct answers 1 of 5 correct answers

d. IRIS

1 of 5 correct answers

	e. CENC
	✓ f. USGS 1 of 5 correct answers
	Check
	CHECK
	Correct
	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 20	Which of the following are FDSN clients that do NOT have dataselect webservices running that would allow this function to download data?
Correct 1.00 points out of	Select one or more:
1.00 points out of	a. NCEDC
Flag question	b. EMSC √ 1 of 3 correct answers.
	□ d. GFZ
	e. ISC ✓ 1 of 3 correct answers.
	☐ f. IRIS
	Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 21	The next Code cell is the most complicated code we have dealt with in our tutorials thus far, so it will help to spend a few questions on this. The Markdown text before describes this code as a loop. How
Correct	is the loop accomplished?
0.67 points out of	
1.00 Flag question	Select one:
	a. The for command loops over each metadata file in the waveforms directory.
	○ b. The for command loops over each miniseed file in the waveforms directory.
	C. The for command loops over each miniseed file in the stations directory.
	Od. The for command loops over each metadata file in the stations directory.
	e. The while command loops over each miniseed file in the stations directory.
	f. The while command loops over each miniseed file in the waveforms directory.
	g. The while command loops over each metadata file in the stations directory.
	h. The while command loops over each metadata file in the waveforms directory.
	Check
	0
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
	mente for this commence in free field and give give the field and give
Question 22	The first part of the loop is where the filenames are set and read into trace and inventory structures. After that, a key part of the loop occurs when it removes the instrument response. This is
Correct	accomplished with the remove_response() function that you can read about here:
0.33 points out of 1.00	https://docs.obspy.org/packages/autogen/obspy.core.trace.Trace.remove_response.html
	This command is called with a variable called filt. What does this variable indicate?
Flag question	Select one:
	a. After removing the response, the seismogram is primarily filtered between 1 and 40 Hz, but allows some energy out to 0.5 and 50 Hz.
	b. After removing the response, the seismogram is primarily filtered for energy from 0.5 to 1 Hz and from 40 to 50 Hz.
	© c. Before removing the response, the seismogram is primarily filtered between 1 and 40 Hz, but allows some energy out to 0.5 and 50 Hz. ✓
	Od. Before removing the response, the seismogram is primarily filtered for energy from 0.5 to 1 Hz and from 40 to 50 Hz.
	e. After removing the response, the seismogram is primarily filtered below 0.5 Hz and above 50 Hz, but allows some energy out to 1 and 40 Hz.
	Of. Before removing the response, the seismogram is primarily filtered below 0.5 Hz and above 50 Hz, but allows some energy out to 1 and 40 Hz.
	Check
	Check
	Check
	Check
Question 23	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00.
Question 23 Correct	Check
Question 23 Correct 0.00 points out of	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00.
Correct	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code?
Correct 0.00 points out of	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one:
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters d. meters
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters e. microns per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters e. microns per second f. millimeters per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters ✓ e. microns per second f. millimeters per second g. meters per second g. meters per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters e. microns per second f. millimeters per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second squared d. meters ✓ e. microns per second f. millimeters per second g. meters per second g. meters per second
Correct 0.00 points out of 1.00	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Based on the command description and the following disp variable, in what unit does the remove_response() function output the seismogram in this code? Select one: a. millimeters b. meters per second c. millimeters per second d. meters e. microns per second f. millimeters per second g. meters per second u. microns i. microns per second squared
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Correct	Answer: 3.818 ✓
1.00 points out of 1.00	Check
Flag question	
	Correct Marks for this submission: 1.00/1.00.
Question 27	What is the purpose of the ms variable in this code?
Correct 0.67 points out of	Select one:
1.00	a. it calculates the local magnitude
Flag question	b. it sums the local magnitude value for each waveform
	○ c. it counts the number of waveforms
	Od. it stores the local magnitude value for each waveform
	e. it stores the average local magnitude value for all of the waveforms
	Check
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 28	What is the purpose of the a variable in this code?
Question 20 Correct	What is the purpose of the n variable in this code?
0.67 points out of	Select one:
1.00	■ a. it counts the number of waveforms ✓
Flag question	b. it sums the local magnitude value for each waveform
	C. it calculates the local magnitude
	d. it stores the average local magnitude value for all of the waveforms
	e. it stores the local magnitude value for each waveform
	Check
	Correct
	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 29	What is the average local magnitude calculated by this code? Round to the nearest 0.01.
Correct	Annuary 14 000
1.00 points out of 1.00	Answer: 4.033
Flag question	Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 30	How does the local magnitude compare to the magnitude found in the original catalog?
Correct	Select one:
1.00 points out of 1.00	a. The local magnitude calculated in this manner is slightly smaller than the local magnitude in the catalog.
Flag question	 b. The local magnitude calculated in this manner is slightly larger than the moment magnitude in the catalog. Correct. For earthquakes of this size, in this part of the country, it is relatively
	common for the moment magnitude to be slightly smaller than the local magnitude. c. The local magnitude calculated in this manner is the same as the moment magnitude in the catalog.
	d. The local magnitude calculated in this manner is slightly smaller than the moment magnitude in the catalog.
	e. The local magnitude calculated in this manner is slightly larger than the moment magnitude in the catalog.
	f. The local magnitude calculated in this manner is slightly larger than the local magnitude in the catalog. f. The local magnitude calculated in this manner is the same as the local magnitude in the catalog.
	Check
	Correct
	Marks for this submission: 1.00/1.00.

Finish review

You are logged in as Dilshad Raza (Log out)

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