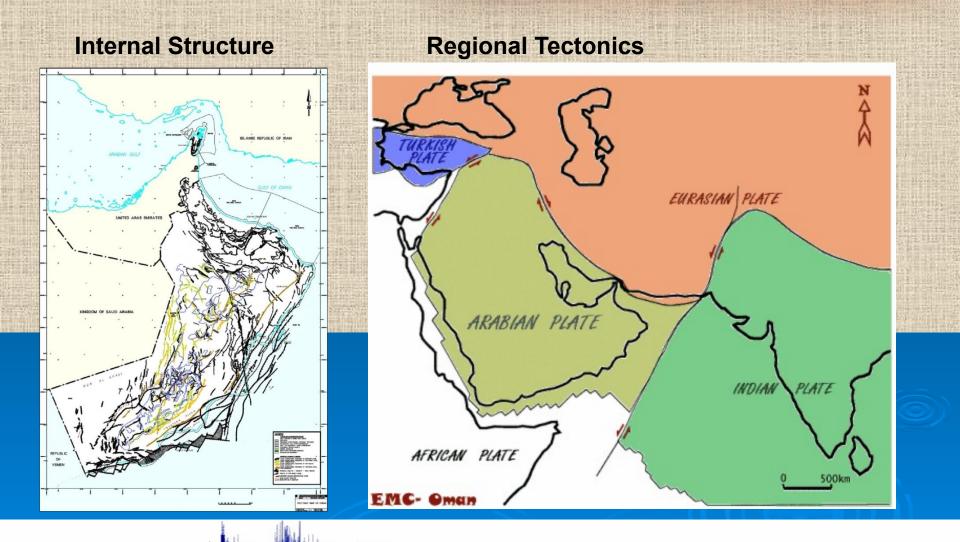




Earthquake Monitoring Center

Sultan Qaboos University جامعة السلطان قابوس OMAN حركز رصد الزلازل SEISMOLOGICAL **NETWORK**

Seismic Activity



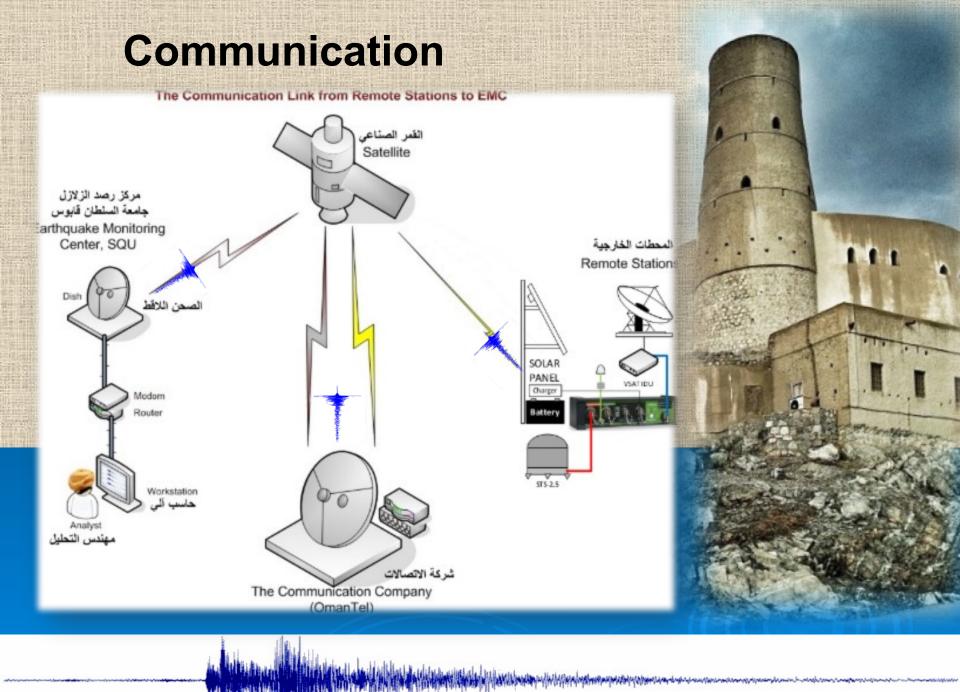
EMC

- (1) central data acquisition system (CDAS) at Sultan Qaboos Uni.
 -2001
- Records eq, Research, seismic hazard, consultation, 24/7
- (21) stations with broadband sensors
 10 in 2001, 3 in 2004, 7 in 2011 & 1 CTBTO



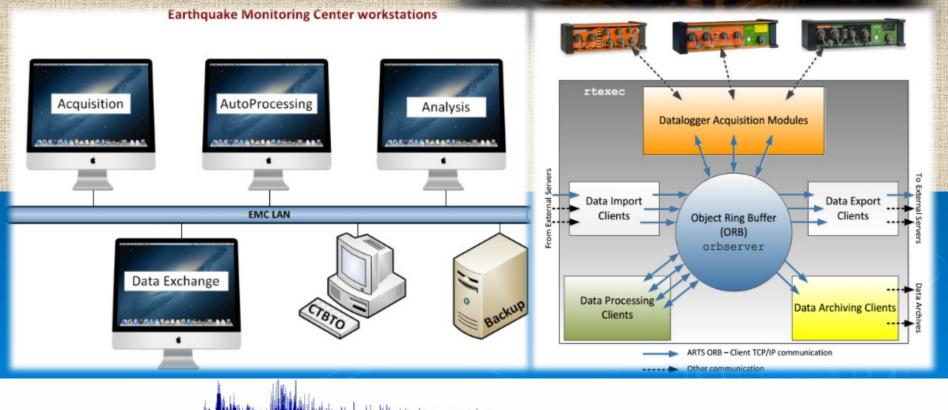
Remote Stations





Data Center

Antelope since the start in 2001



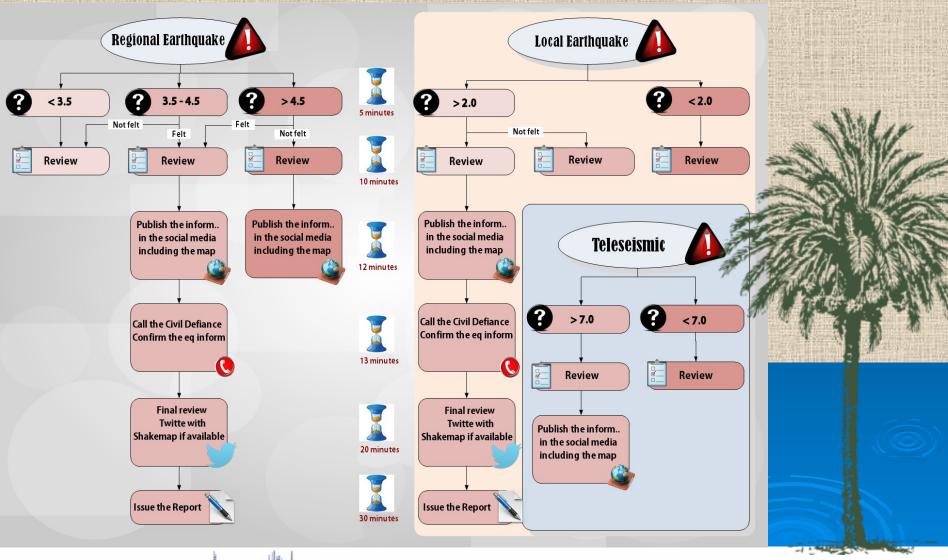
Recorded Events

CO. PART COLUMN TO A DOLLAR DOLL	the state of the s	CONTRACTOR OF A PARTY OF A	and the second s
GNI BH2_00	S	PKIKP	
GNI BHZ_00	mPb 🐡	PKIKP	
KIV BH2 00	- PRS -	PKIKP	
KIV BHZ_00	(m P) p	PKIKP	
SAK HHN	PERCE S	PKIKP	
SAK HHZ	+HE PSH	PKIKP	
SHMA HHN	• # m S *	Manager Play P	
SHMA HHZ		DE DE DE	
	and the second	PKIKP	Constant States
SMRA HHE			
SMRA HHZ		PKIKP	
TRNA HHE		PKIKP	
TRNA HHN	•PP St	PKIKP	
TRNA HHZ		PKIKP	
JRN HHE		RKIKP	
JRN HHN	+pPn 8	RKIKR	
JRN HHZ		ms to PKIKP	
ANTO BH1_00	+pPn S	PKIKP	
ANTO BHZ 00	mP)n.	RKIKR	
SHM HHZ		ms to PKiKP	
		A DELKA	
има ннг	KII PVP	All the BRIKE	
AJN HHE	+pPn []	HERE DRIKE	
AJN HHZ		ms THERKIKP	
MSF HHN	+pPnemi	DEIKD	
	+ m Pp in		
MSF HHZ	+#Pot S		
NAZ HHE	and the second	PKKP	
NAZ HHZ	di Pre 1		
FAQ HHN	+pfn 📶	PKIKP	
FAQ HHZ	di(Pyp)	ms Per Rkik P	
UOSS BH2_00	- pEn 2S	PKIKP	
UOSS BHZ_00		ms M PKIKP	
HAT HHE	+#Pn	RKIKP	
HAT HHZ		ms PEKIKP	
HAT HHZ	18:15:00.000 2017316	18:30:00.000 2017316	18:45 201
	2017310	2017316	201

time latency lat lon depth mwp mb ms	= 34.8224 = 45.9263 = 11.00 = 7.26 = 7.05 = 7.85	.5	
author ndef nass evid orid	<pre>SQU:rtMwpMbMs 88 88 23769 53355 (preferred)</pre>		

5:00.000 17316

Standard Operation procedure



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Shakemap

Sultan Qaboos University Earthquake Monitoring Center

Shakemap Report

بسوالله الرحمن الرحيم

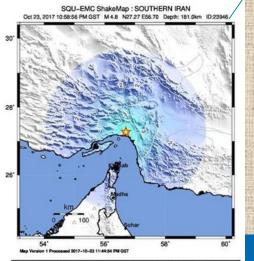
Earthquake on 23/10/2017 at 22:58:56 (Local Time) with Magnitude 4.8 (mwp)

Alert Level in Muscat: NO ALERT Alert Level in Sultanat Oman: NO ALERT (Warning: Alert level maybe revised if necessary ...)

Event ID = 23946 Latitude = 27.2710 Longitude = 56.7010 Depth = 181.0km Region: SOUTHERN IRAN Magnitude: 4.8 (mwp) Epicentral Intensity: VI

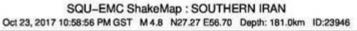
446km NW from Muscat 1170km NE from Salalah 129km NE from Khasab

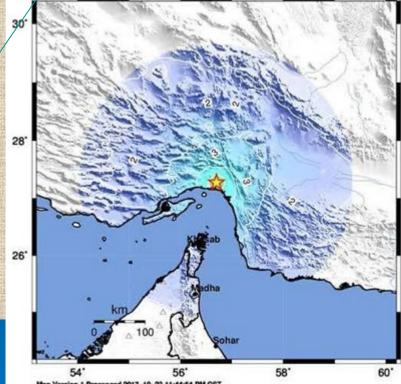
Note: Intensity difers from site to site and building to building based on building type, height and site conditions.



جامعة السلطان قابوس مركز رصد الزلازل

SPAKING	Not feit	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTEINTIAL	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heevy	Very Heavy
PEAK ADD (Ng)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL.(onvis)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENDETY	1	8-88	IV	V	VI	VII	VIII	IK.	X.





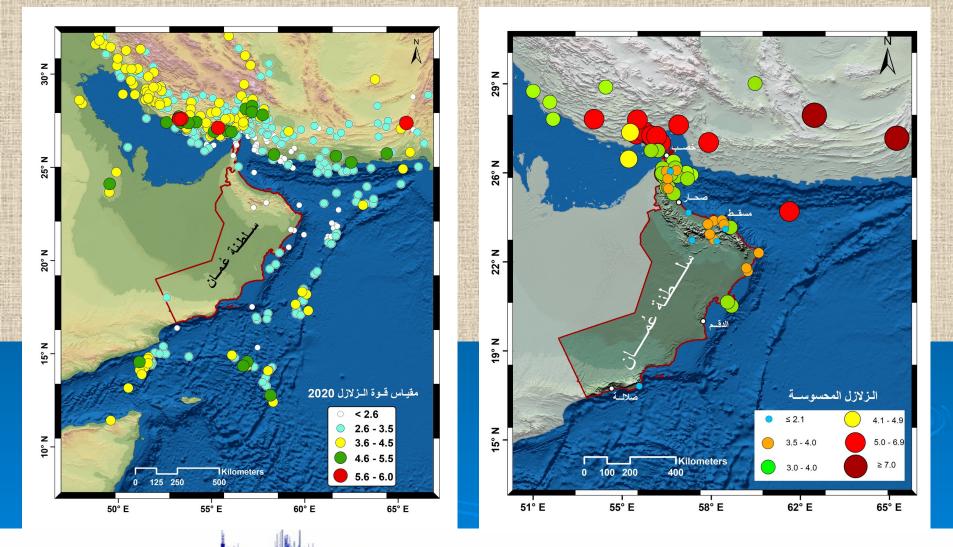
Map Version 1 Processed 2017-10-23 11:44:54 PM GST

SHAKING	Not feit	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
EAK VEL.(om/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INTENSITY	1	11-111	IV	V	VI	VII	VIII	IX	Ma
	POTENTIAL DAMAGE PEAK ACC.(%g)	POTENTIAL none PAMAGE none PEAK ACC.(%g) <0.05	BAKING NOT	SHALKING Notifier Weak Light DOTENTIAL none none none DAMAGE 0.05 0.3 2.8 PEAK ACC(%g) <0.02	Statistical Not reit Weak Light Moderate DOTENTIAL none none none none Very light DAMAGE science none none science Science Science PEAK ACC (%g) <0.05	SHALKING Notifiet Weak Light Moderate Strong DOTENTIAL DAMAGE none none none Notifiet Light Light<	SHALKING Notret Weak Light Moderate Strong Very strong POTENTIAL BAMAGE none none none none Very light Light Moderate PEAK ACC.(%g) <0.05	Situation Potential Battinger Notifeit Weak Light Moderate Strong Very strong Severe POTENTIal Battinger none none none Very light Light Moderate Moderate	Stratistic Notifeit Weak Light Moderate Strong Very strong Severe Violant POTENTIAL BAMAGE none none none None Very light Light Moderate Mod./Heavy Heavy PEAK ACC.(%g) <0.05

Intensity at Main Cities

City	Dist(km)	Intensity	Perceived Shaking	Potential Damage
Khasab	129	II	Weak	none
Diba	187	II	Weak	none
Madha	221	I	not felt	none
Sohar	320	I	not felt	none

Seismic Activity



The second s

Network Expansion

25° N > (6) new broadband stations ➢ 60 strong motion 20° N Sultan Qaboos University Earthquake Monitoring Center Seismic Station location 0 30 60 120 180 Kilometers 55° E

55° E

60° E

25° N

20° N

60^b E

N

External Collaborations

- Lawrence Livermore National Laboratory, 2004
- Dubai Municipality, 2006
- KISR Kuwait, 2008
- Qatar 2015
- MIT, 2009
- Iran 2016
- NCMS of UAE, 2010
- Kandilli Observatory, Turkey, 2012
- Lisbon, IPL, 2013
- Keil University, Germany, 2014
- MOU with CAA, Oman, 2017
- LOU with University of Hormozgan / Tsunami and Earthquake Research Center, Iran ,2018
- MOU, Pakistan Meteorological Department, Pakistan, 2021
- UNESCO chair on seismic and tsunami hazards studies ,2021

• June 8, 2023

