

CCZ MODEL:

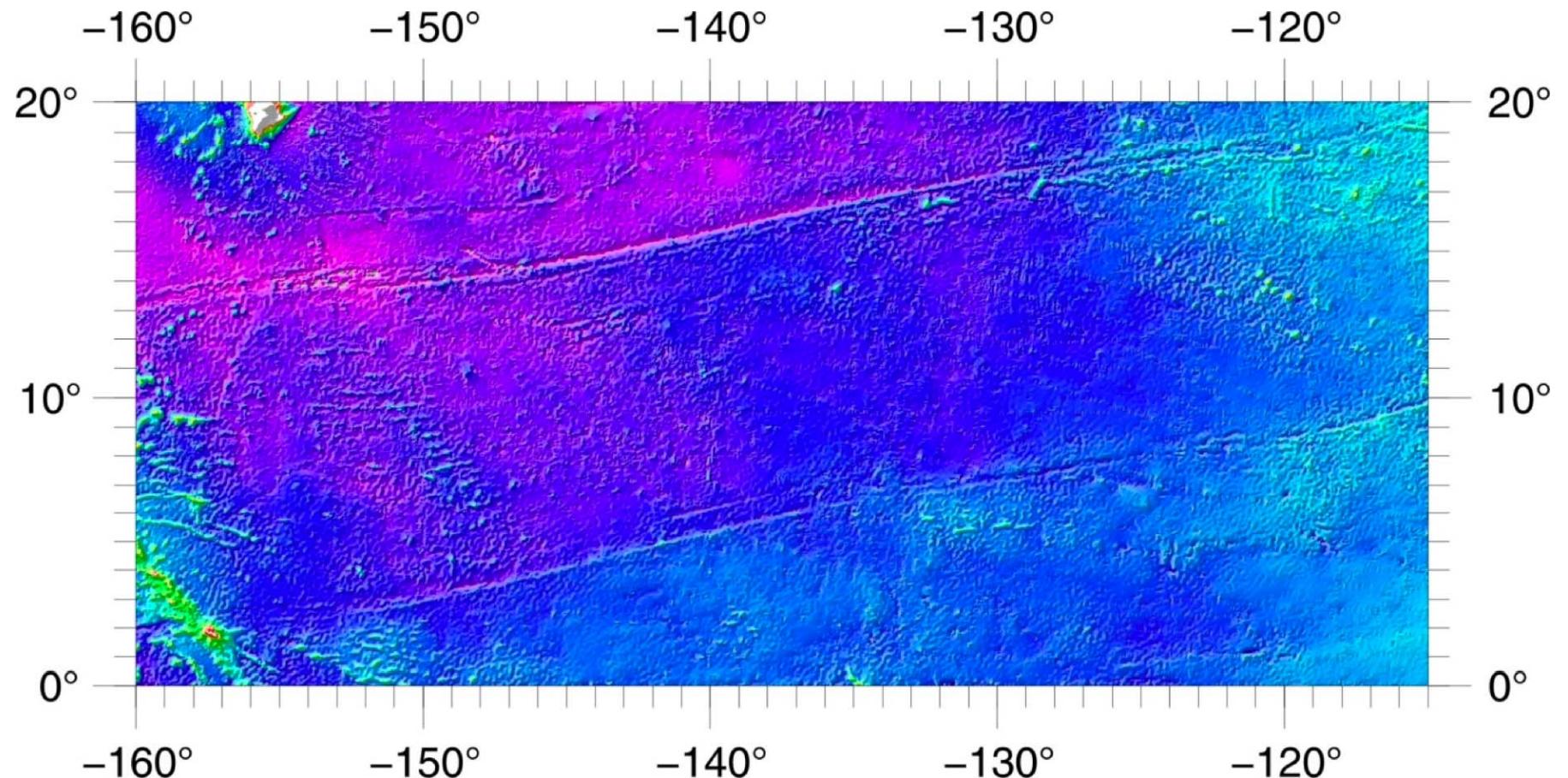
BATHYMETRY BASE MAP

-

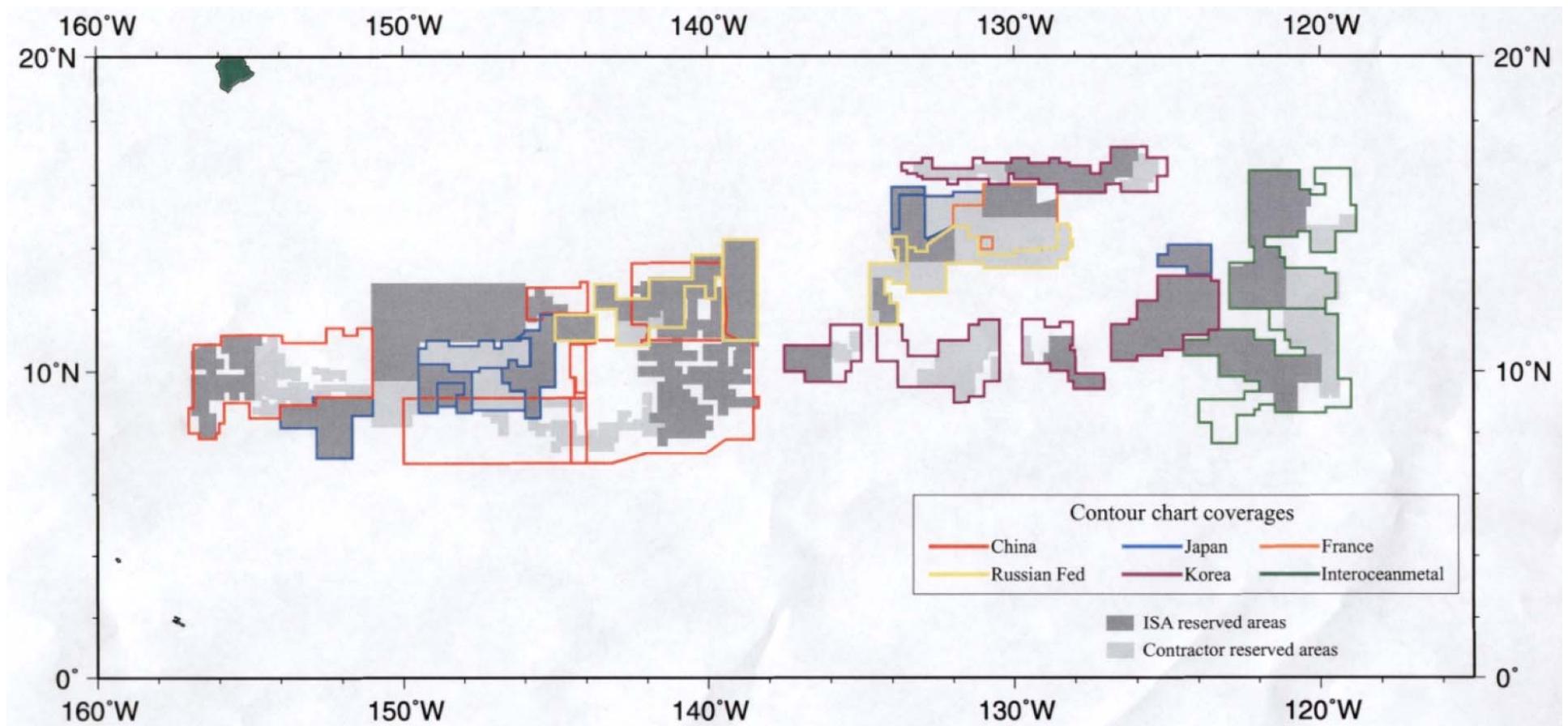
Peter Hunter and Lindsay Parson

National Oceanography Centre,
Southampton UK

Base map area of interest



ISA exploration areas

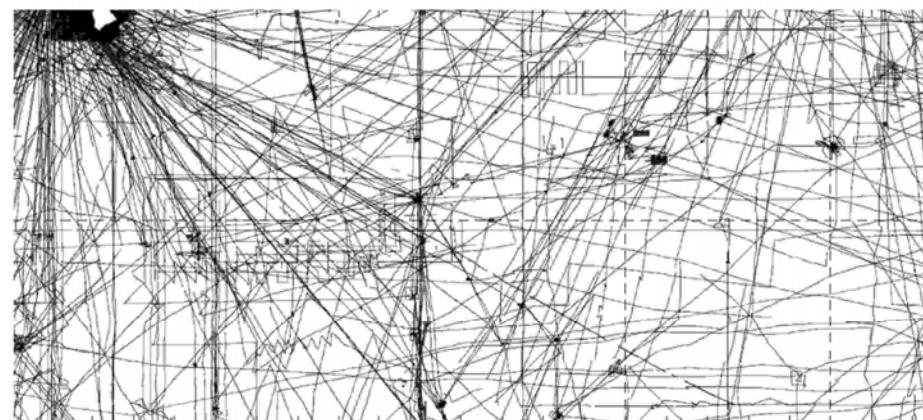
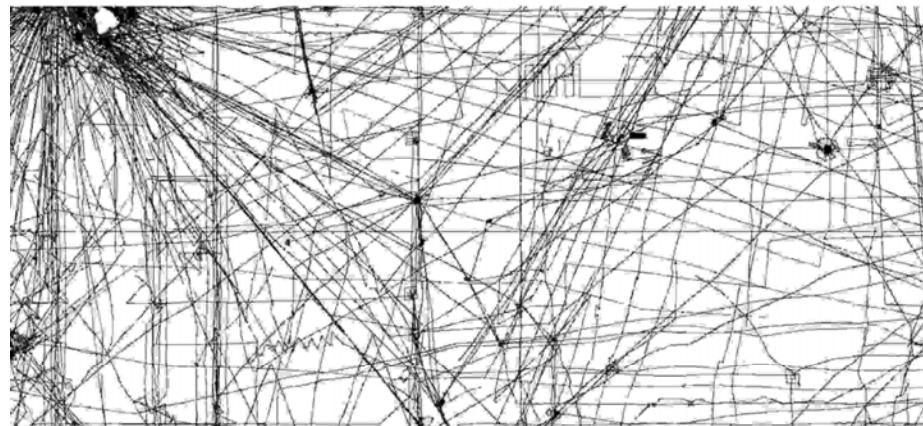


Map basis

GEBCO

GEODAS

Sandwell & Smith



Data sources

- GEBCO
- Sandwell and Smith
- ISA data base

Paper charts

Digital grids

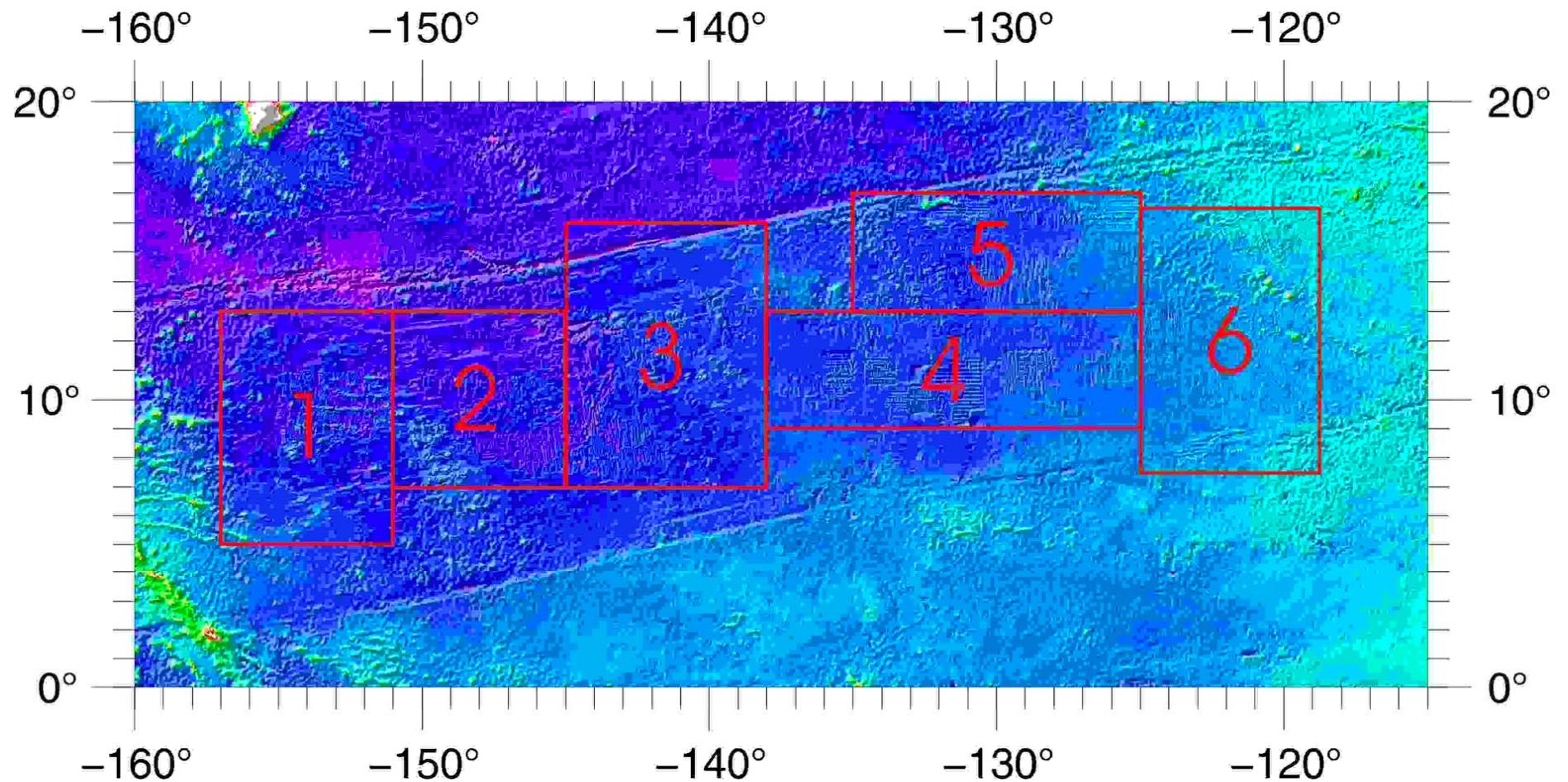
xyz files

Contractors contributions

**International Seabed Authority
Clarion Clipperton Fracture Zone Area**

Source	Resolution	Datasets (scans & ASCII)	MinLon	MaxLon	MinLat	MaxLat	Geo Ref	Digitize	Grid
CHINA <small>(COMRA)</small>	100m + Ds	CHI_fig31.tif	-157	-151	8	11.5	Yes	Yes	Yes
	100m + Ds	CHI_fig32.tif	-146	-144	11.5	13	Yes	Yes	Yes
	100m + Ds	CHI_fig33.tif	-142.5	-139	11	13.5	Yes	Yes	Yes
	100m + Ds	CHI_fig34.tif	-150	-144	7	11	Yes	Yes	Yes
	100m + Ds	CHI_fig35.tif	-145.5	-137.5	7	11	Yes	Yes	Yes
	0.5 min	Comra-east-multibeam.grd	-149	-141	7.4	10	n/a	n/a	Yes
	0.5 min	comra-east-sb-dep.xyz	-149	-141.3	7.3	10	n/a	n/a	n/a
	0.5 min	Comra-west-multibeam.grd	-155	-151	8.3	11	n/a	n/a	Yes
	0.5 min	comra-west-sb-dep.xyz	-155	-151	8.5	11	n/a	n/a	n/a
JAPAN <small>(DORD)</small>	100m + Ds	JAP_Additional1.tif	-154	-151	7.2	9.2	Yes	Yes	Yes
	100m + Ds	JAP_Additional2-3.tif	-149.5	-145	8.5	12	Yes	Yes	Yes
	100m + Ds	JAP_Additional4.tif	-134	-133	14.5	16	Yes	Yes	Yes
	100m + Ds	JAP_Res4Comm.tif	-134	-132.75	14	15.6	Yes	Yes	Yes
	100m + Ds	JAP_SelectedA.tif	-147.75	-146	8.75	10.1	Yes	Yes	Yes
	100m + Ds	JAP_SelectedByCommB1.tif	-149	-148	8.75	9.5	Yes	Yes	Yes
	100m + Ds	JAP_SelectedByCommB2.tif	-125.5	-123.5	13.1	14.1	Yes	Yes	Yes
	100m + Ds	JAP_SelfAllocate1.tif	-149.5	-145.75	10	11	Yes	Yes	Yes
	100m + Ds	JAP_SelfAllocate2.tif	-133	-131	14.25	15.75	Yes	Yes	Yes
	~2 min ??	Data for Geologic Model.xls	-149	-131	8.75	15.77	n/a	n/a	Yes
FRANCE <small>(IFREMER)</small>	100m (mb)	FRA_Carte6.tif	-132	-128.5	13.75	16	Yes	Yes	Yes
	10m (mb)	FRA_Carte7.tif	-131.1	-130.7	13.95	14.3	Yes	n/a	n/a
RUSSIA	100m	RUS_sheet1.tif	-145	-139.5	11	13.75	Yes	Yes	Yes
	100m	RUS_sheet2.tif	-139.5	-133.5	11	14.25	Yes	Yes	Yes
	100m	RUS_sheet3.tif	-133.5	-128	12.5	14.75	Yes	Yes	Yes
KOREA	~500m	00_a2_noNaN.xyz	-136.1	-134.9	10.7	11.2	n/a	n/a	Yes
	~500m	01_C1_noNaN.xyz	-130.3	-128.1	10.2	11.7	n/a	n/a	Yes
	~500m	04_KR5_noNaNposs.xyz	-132.8	-131.5	9	10	n/a	n/a	Yes
	~500m	95a2acinoNaNposs.xyz	-134.5	-133.5	10.5	11.5	n/a	n/a	Yes
	~500m	95b2acinoNaNposs.xyz	-136	-135.25	9.85	10	n/a	n/a	Yes
	~500m	95_B1noNaN.xyz	-133.8	-132	9.55	10	n/a	n/a	Yes
	~500m	96_N1noNaN.xyz	-133.5	-130.25	16	16.9	n/a	n/a	Yes
	~500m	96_N3noNaN.xyz	-126.75	-125	15.75	17.2	n/a	n/a	Yes
	~500m	97_C1noNaN.xyz	-129.75	-128	10.5	11.7	n/a	n/a	Yes
	~500m	98_99_00_B2noNaN.xyz	-134.84	-131.9	9.8	10.6	n/a	n/a	Yes
	~500m	b2areanoNaNposs.xyz	-133	-130.5	9.1	10	n/a	n/a	Yes
	50m	KOR_fig41a.tif	-133.75	-125	15.75	17	Yes	Yes	Yes
	50m	KOR_fig42a.tif	-137.5	-130.5	9	11.75	Yes	Yes	Yes
	50m	KOR_fig43a.tif	-129.75	-123.25	9.5	13	Yes	Yes	Yes
	200m	Bathymap 1.jpg	-156	-151	5	7	Yes	Yes	Yes
	200m	Bathymap 2.jpg	-155	-143.5	7	13	Yes	Yes	Yes
	200m	Bathymap 3.jpg	-145	-139	13	16	Yes	Yes	Yes
IOM	100m	IOM_sheet1.tif	-123	-118.75	12	16.5	Yes	Yes	Yes
	100m	IOM_sheet2.tif	-124.5	-119	7.75	12	Yes	Yes	Yes
	200m	iom_b1_bathy_grid.ascii	-120.5	-118.8	13.8	15.7	n/a	n/a	Yes
	200m	iom_b2_bathy_grid.ascii	-121.7	-118.9	8.6	13.4	n/a	n/a	Yes

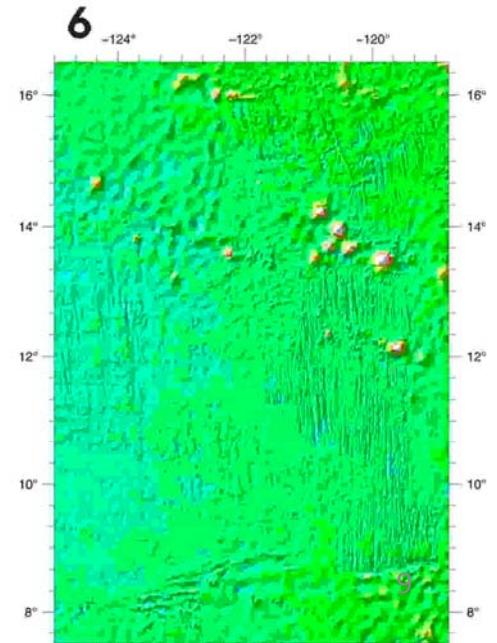
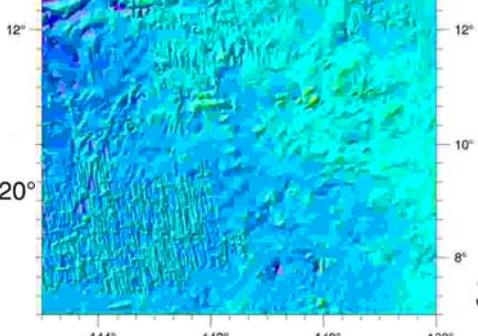
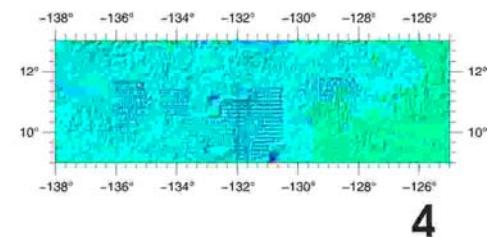
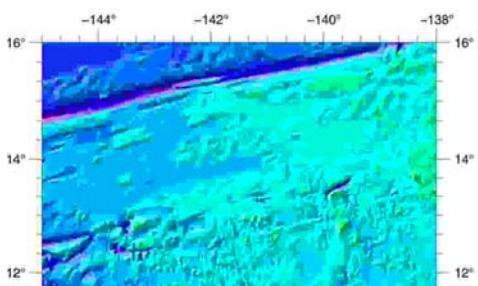
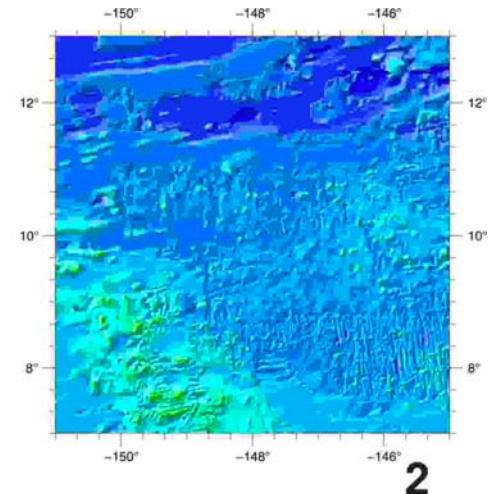
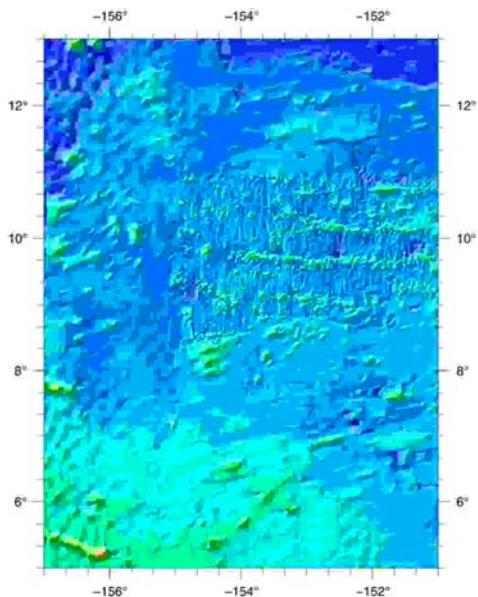
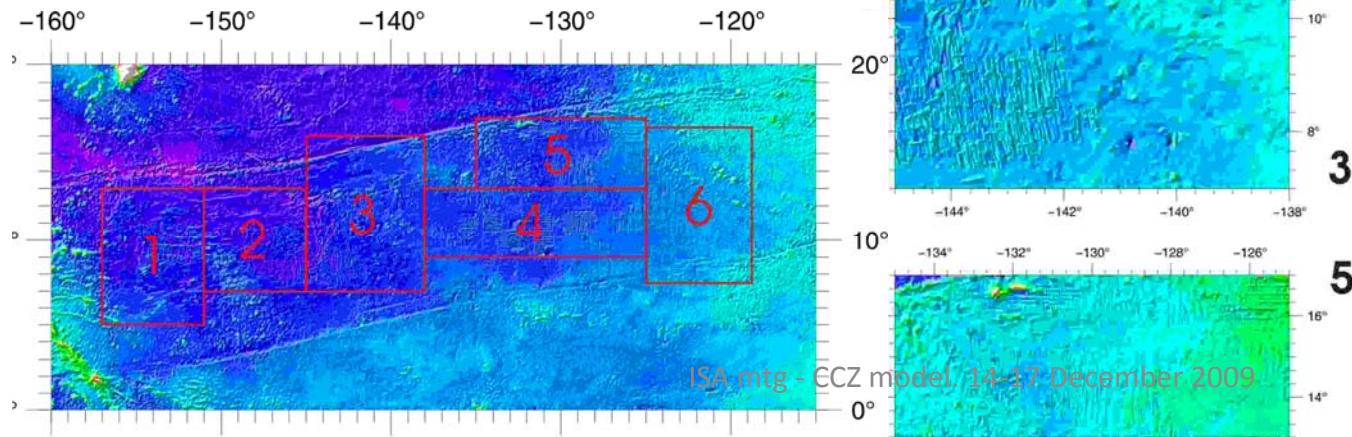
Focus areas



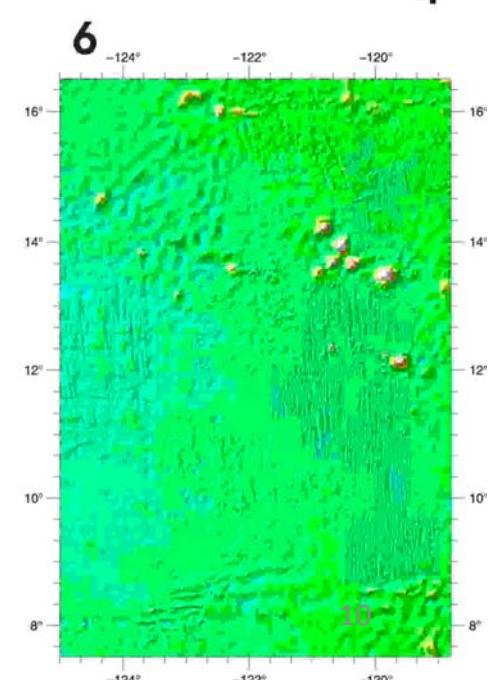
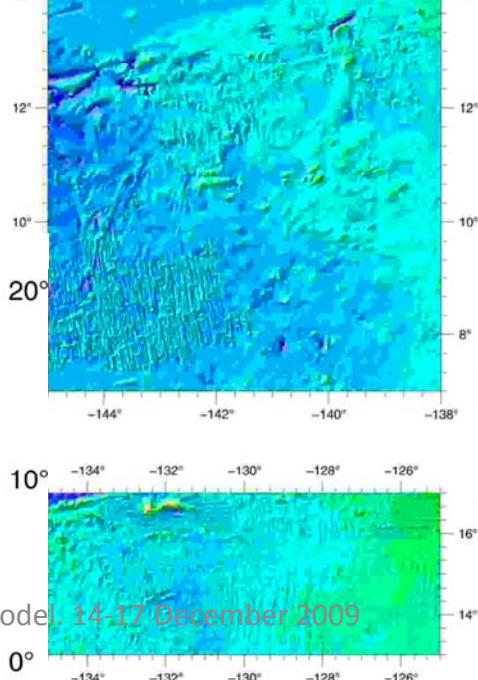
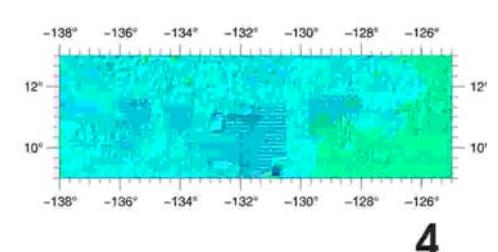
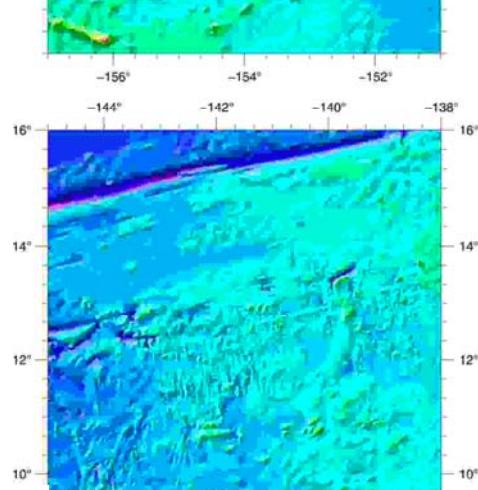
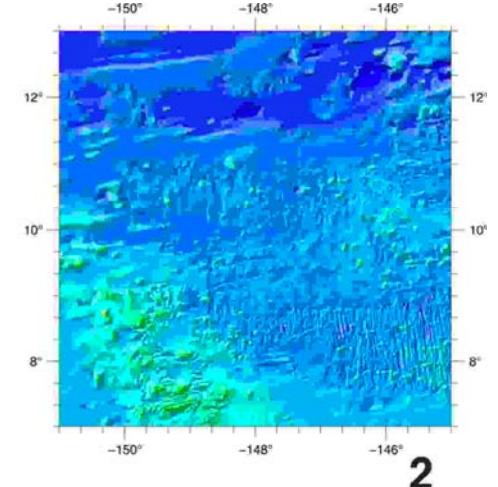
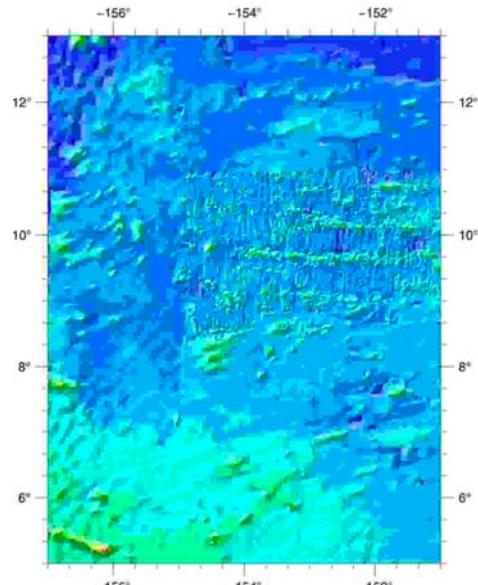
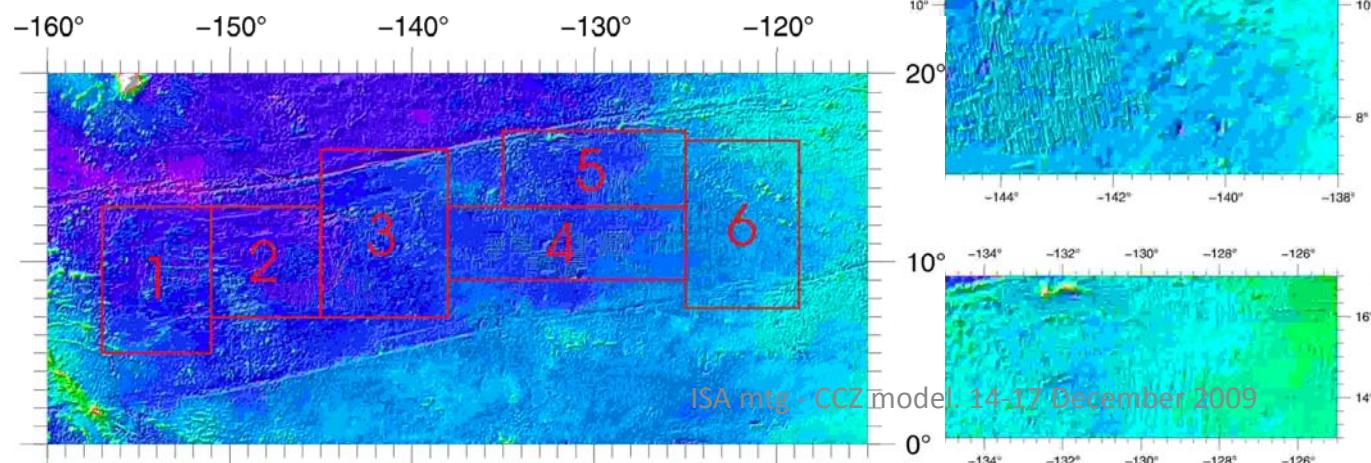
Methodology

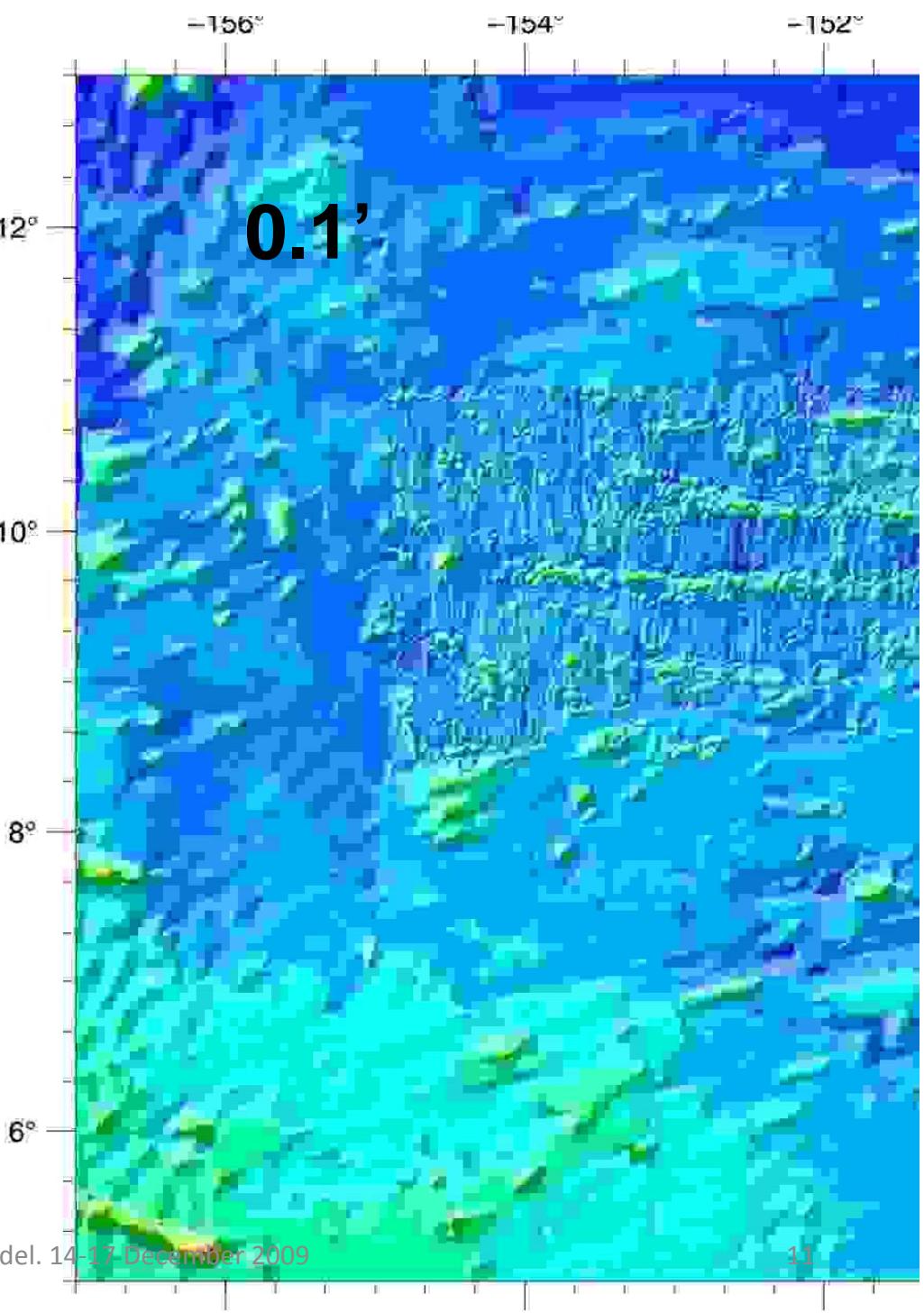
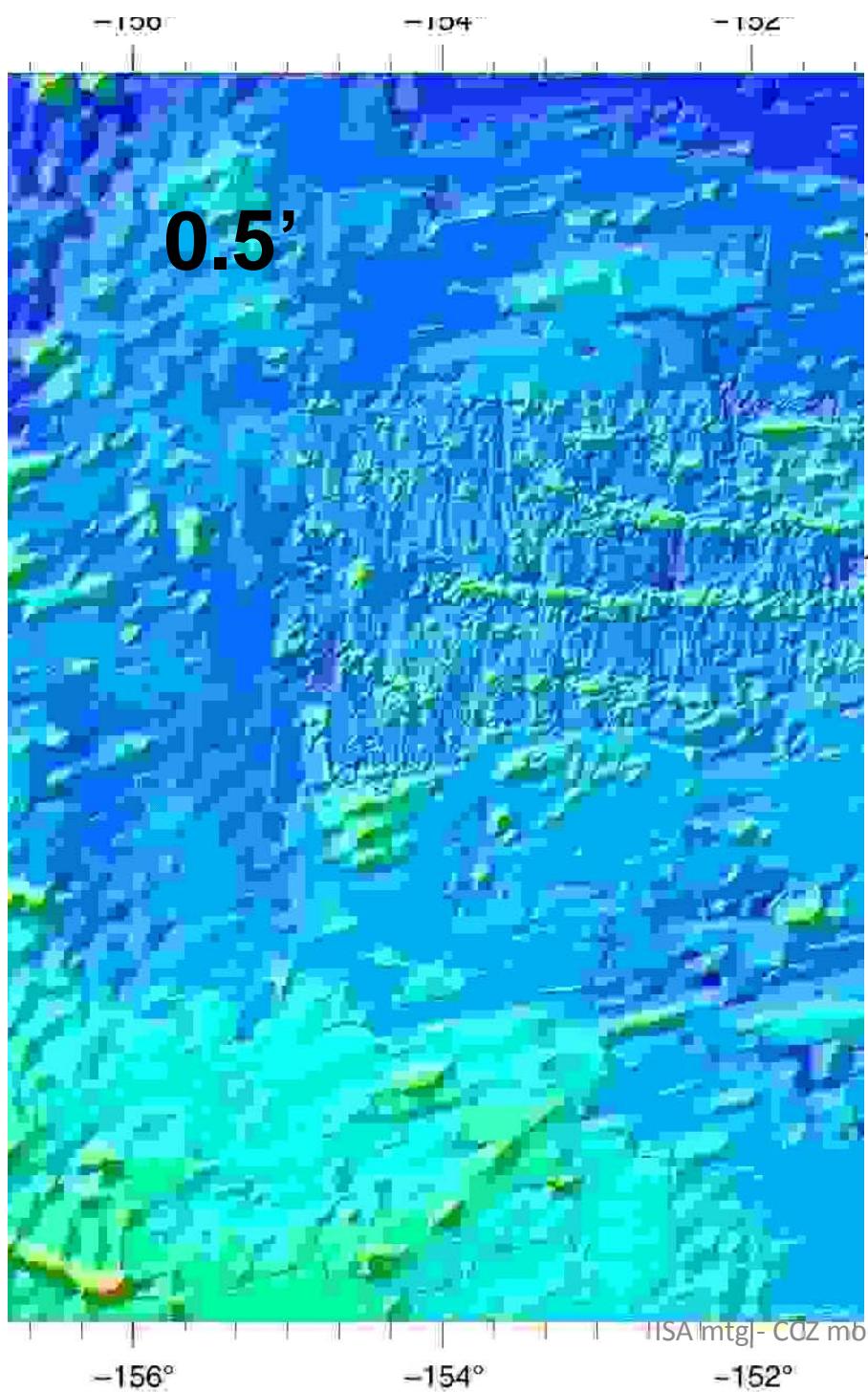
- Scanned charts
- Digitising/vectorising
- Gridding to 1 minute
- 0.5 and 0.1 minute key areas

0.5 minute grid

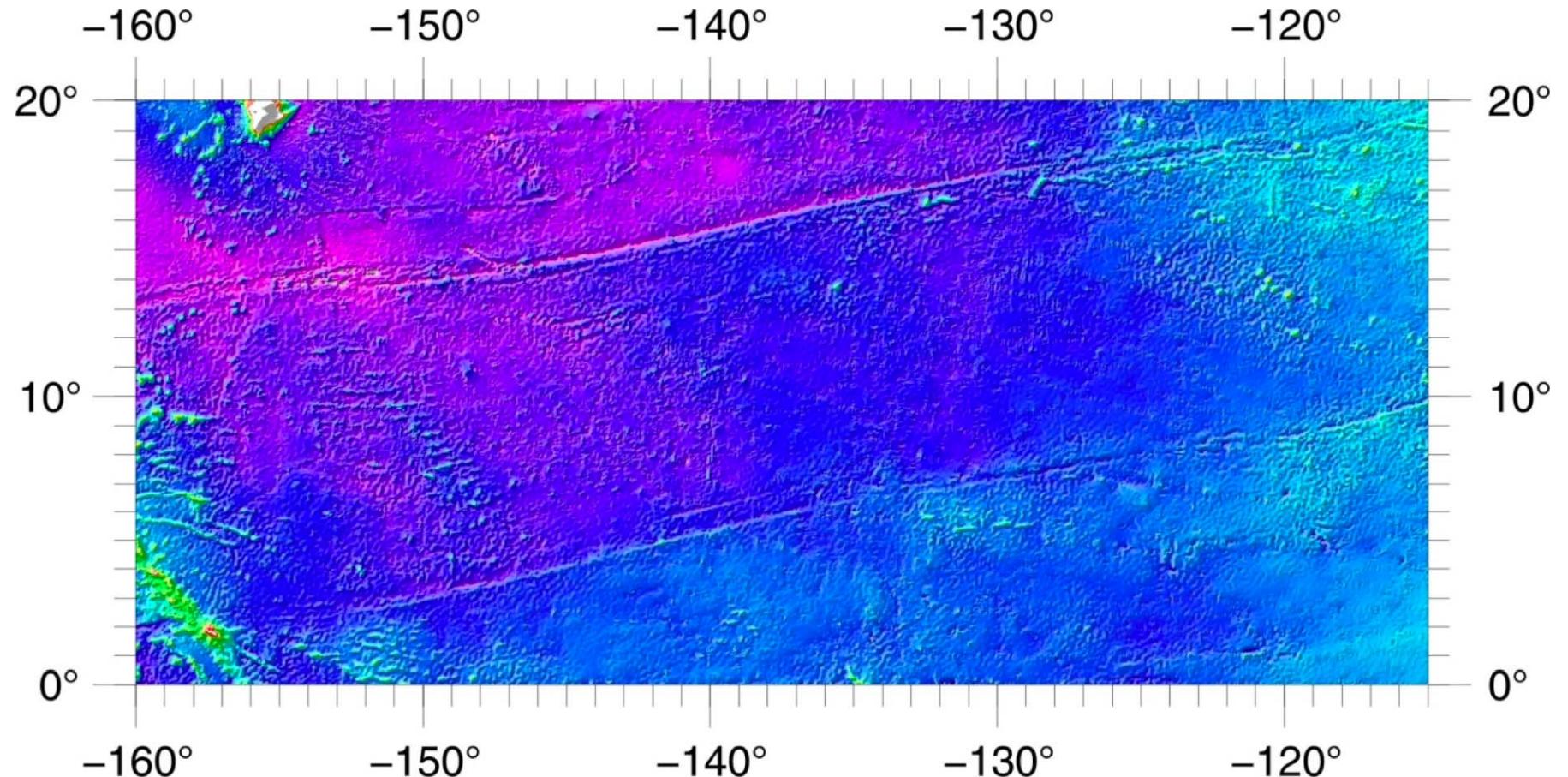


0.1 minute grid

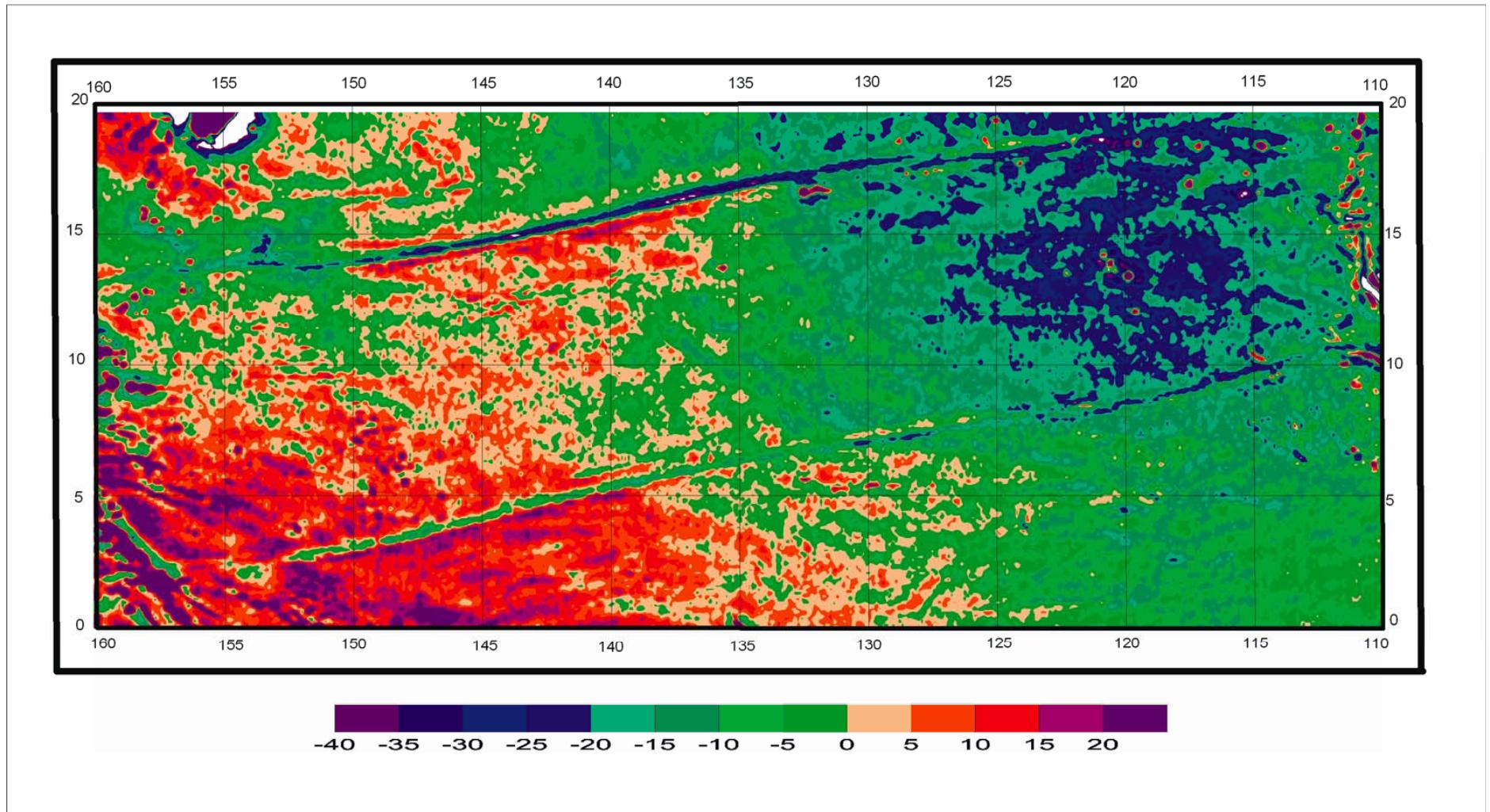




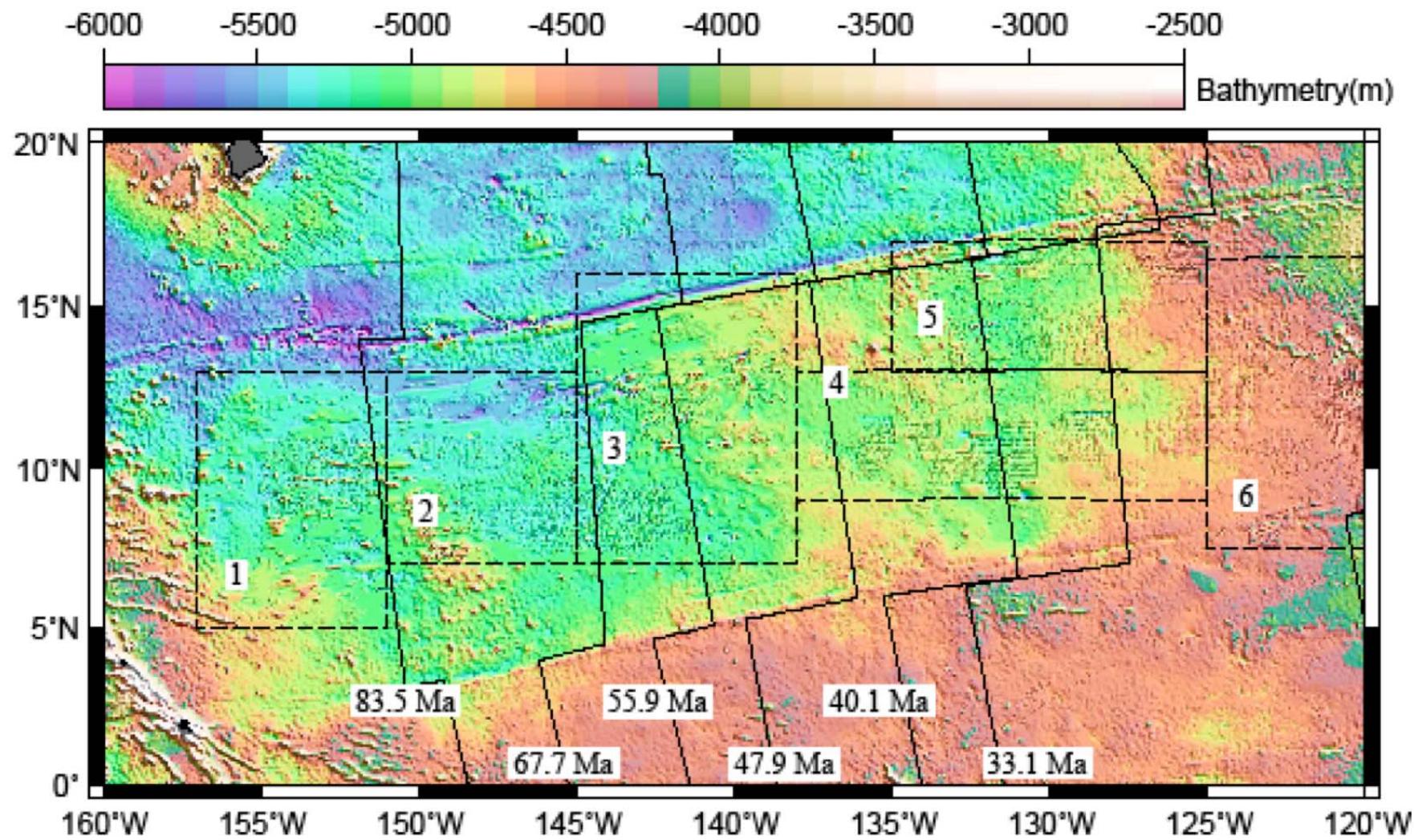
Morphotectonics of the region



Sandwell and Smith gravity



Predicted bathymetry, age, focus areas



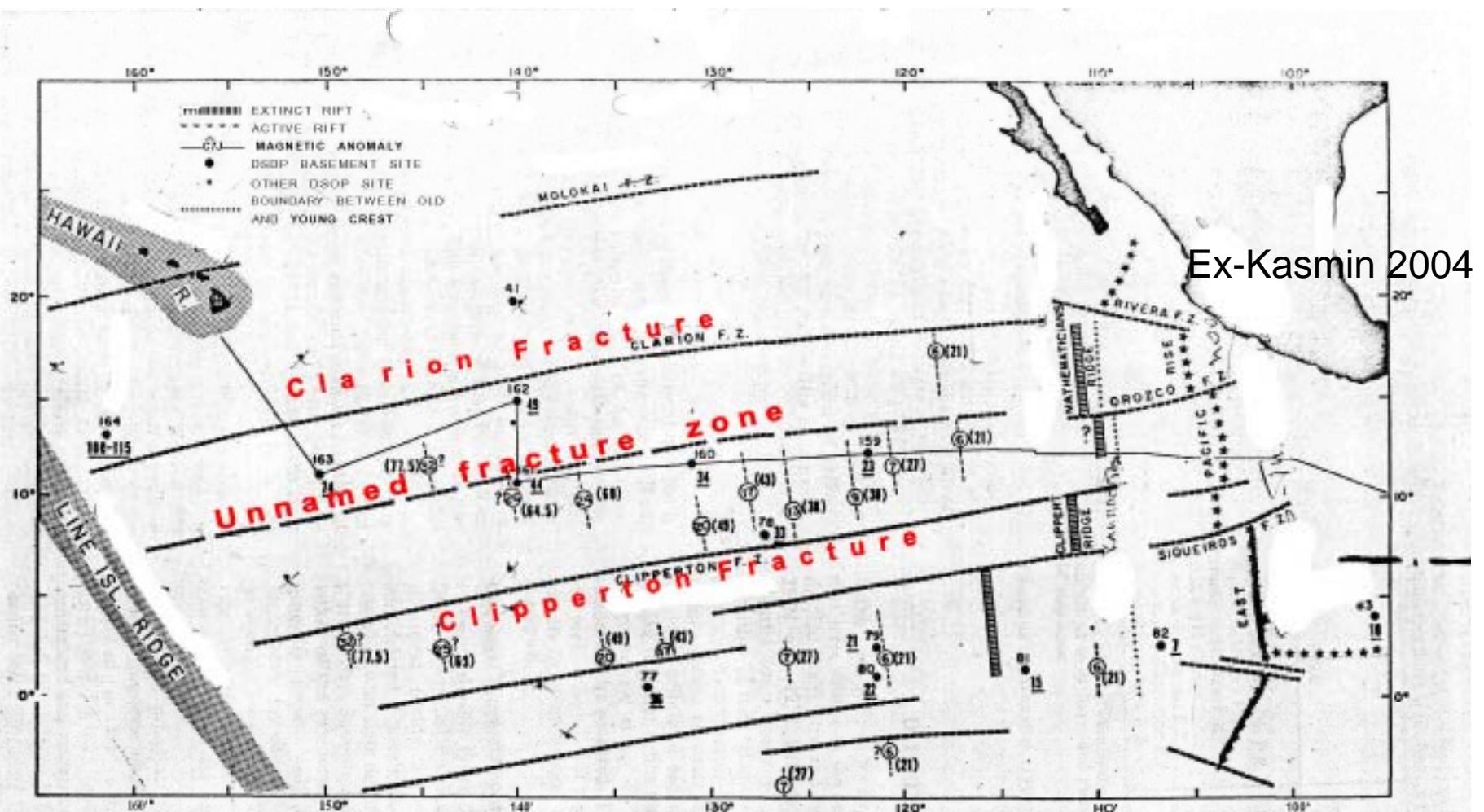
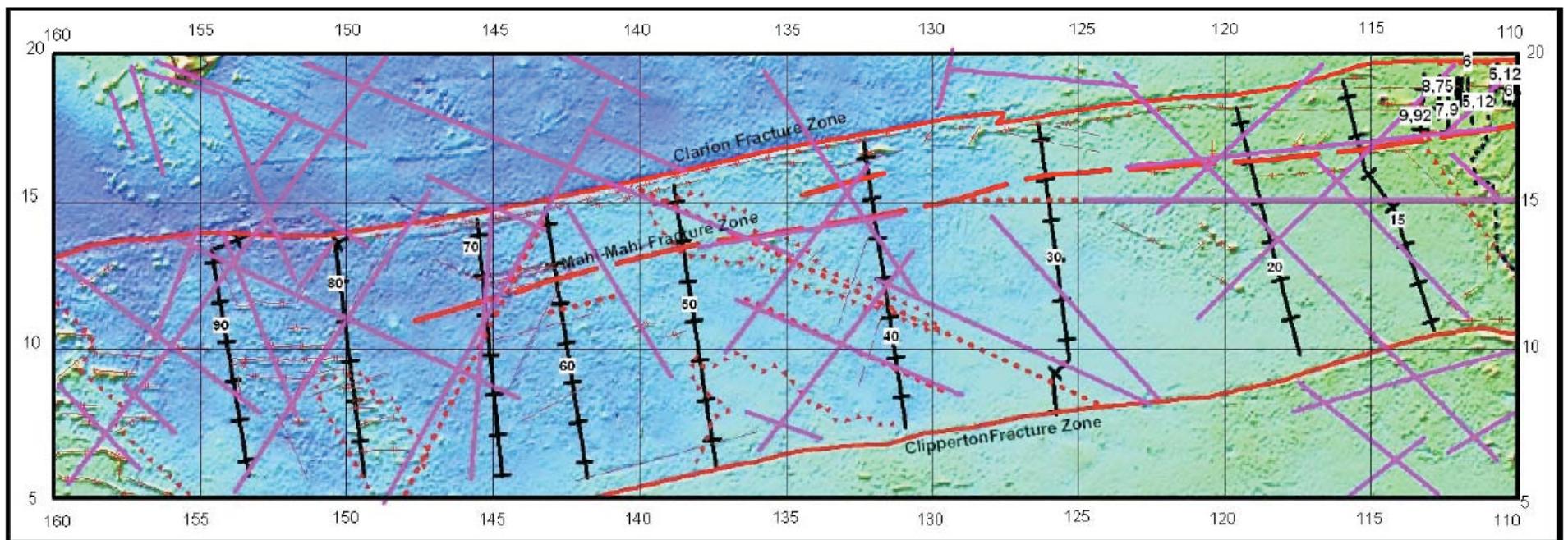


Figure 53.. Tectonic sketch of the Eastern Central Equatorial Pacific (from Tjeerd H. van Andel and G.Ross Heath " Geological results of Leg 16...",Initial Reports of DSDP, vol.16,1973)

yes identified
c Rise (stars)
eirtzler et al.
indicate the
V. Glomar

Prospectors Guide



Further work....

- New data
- New models
- Release of data