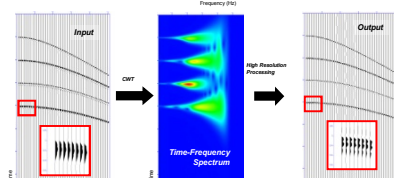


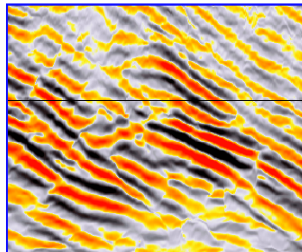
## CWT

Continuous Wavelet Transform  
High Resolution Processing

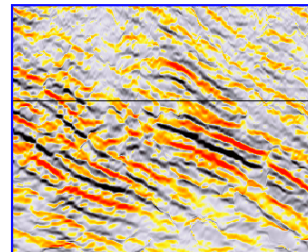


This processing utilizes CWT (Continuous Wavelet Transform) for obtaining high resolution profile of seismic sections with the reasonable revision of the wavelet.

## Input



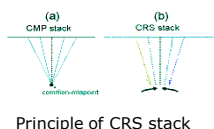
## CWT



CWT High resolution processing provides better definition of reflectors, where precise estimation of resources including oil and gas can be conducted.

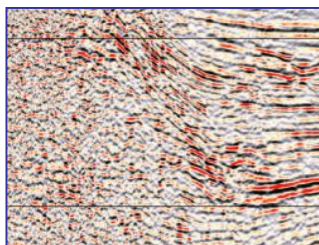
## MDRS

The Multi-Dip Reflection Surfaces

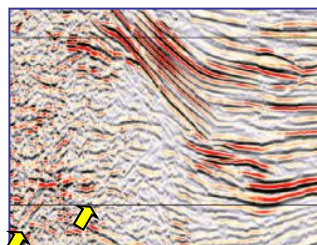


Principle of CRS stack

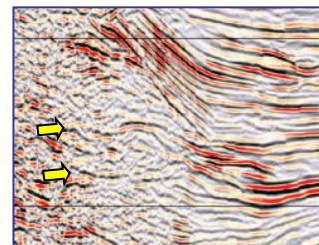
## DMO



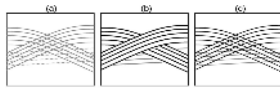
## CRS



## MDRS



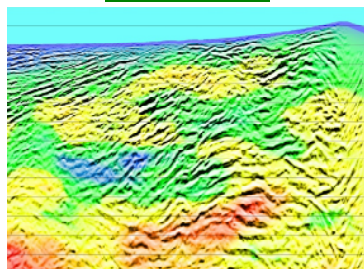
A conventional CRS method provided significant improvement in the signal to noise ratio of images compared to that from DMO stack. However, dominant steep dipping events exist and some reflections can not be clearly seen. Our MDRS method depicted the conflicting dips and the reflections are becoming more visible.



Comparison between CRS and MDRS

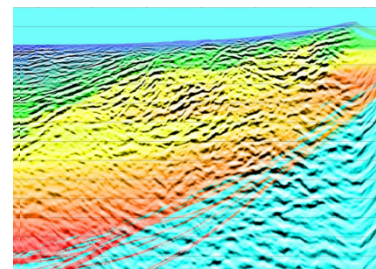
MDRS is an alternative stacking method for improving seismic sections. It is applicable to low S/N data, low-fold legacy data and complex velocity areas.

## MDRS Stack



MDRS Stacked Section  
with MDRS Velocity

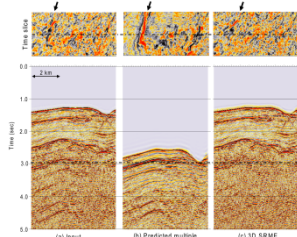
## MDRS Migration



MDRS Migrated Section  
with TTT (Travel Time Tomography) Velocity

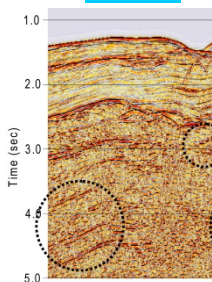
## 3D SRME

Surface-Related Multiple Elimination

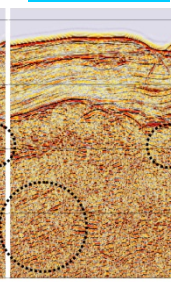


JGI's 3D SRME is an optimized multiple suppressor in which the aperture parameter uniquely defines ellipsoidal integration area and facilitates to scrutinize the multiple contribution gathers. 3D SRME effectively attenuates multiples through complex structures and reveals deep exploration frontiers.

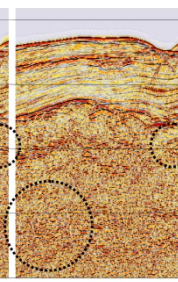
## Input



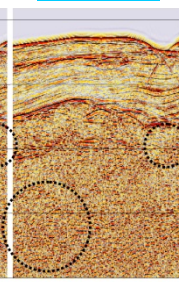
## 3D SRME



## PRT



## Hybrid



**Hybrid Approach:** 3D SRME effectively worked under circumstances where the diffracted multiple was observed (small circle) while PRT showed superiority on the far-offset records. Hybrid approach of 3D SRME and PRT produces the best result owing to the complementary attribute of each method.