

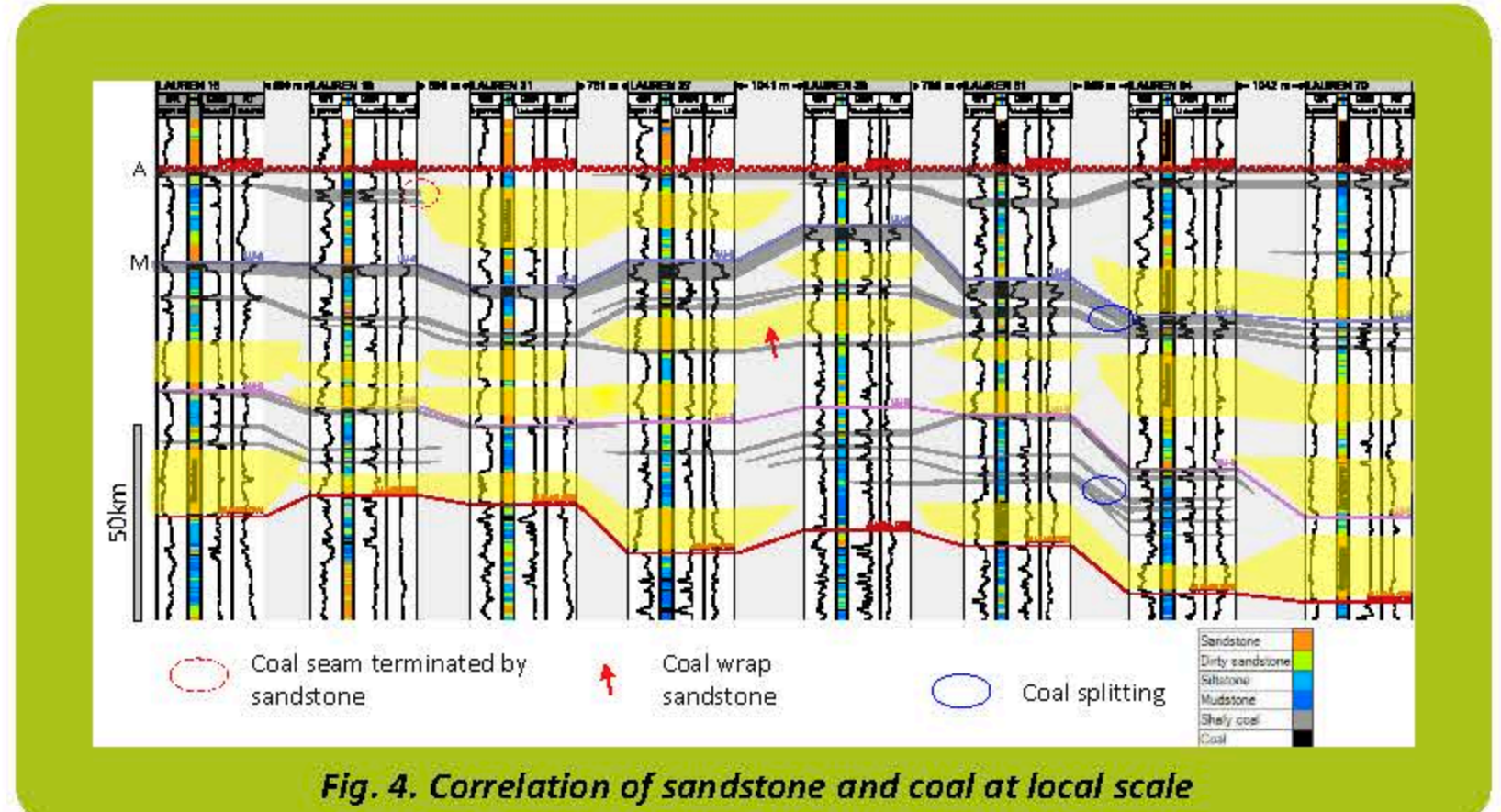
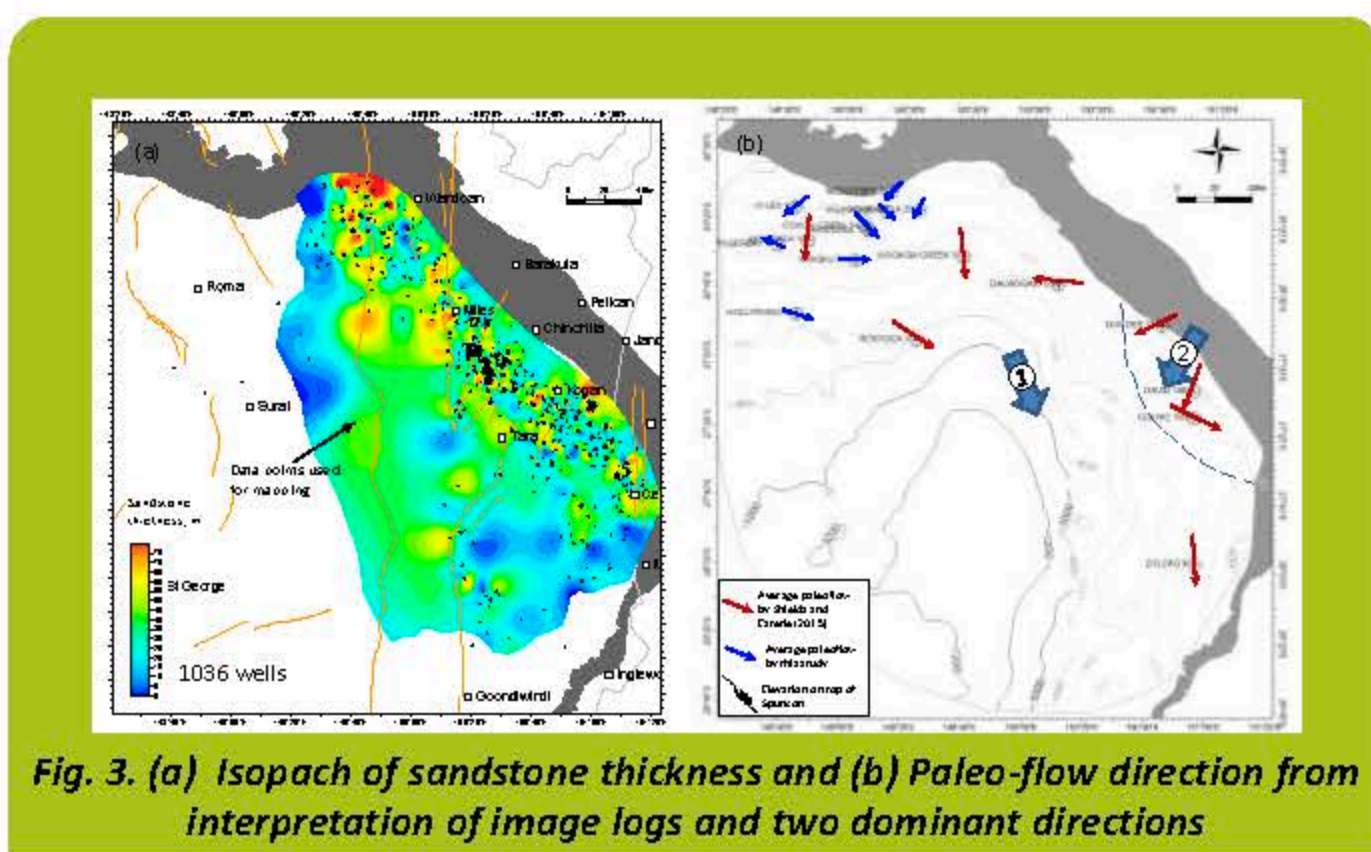
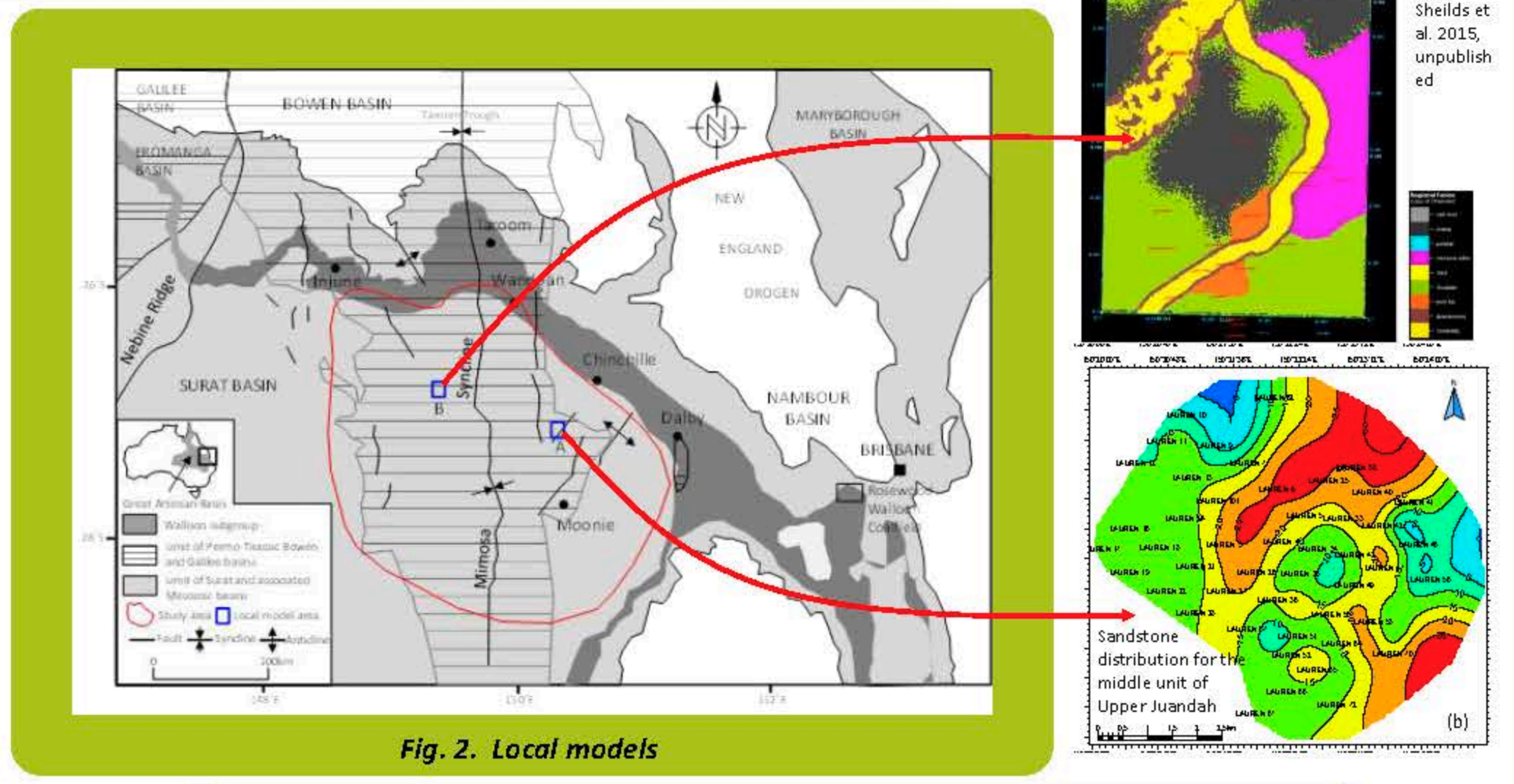
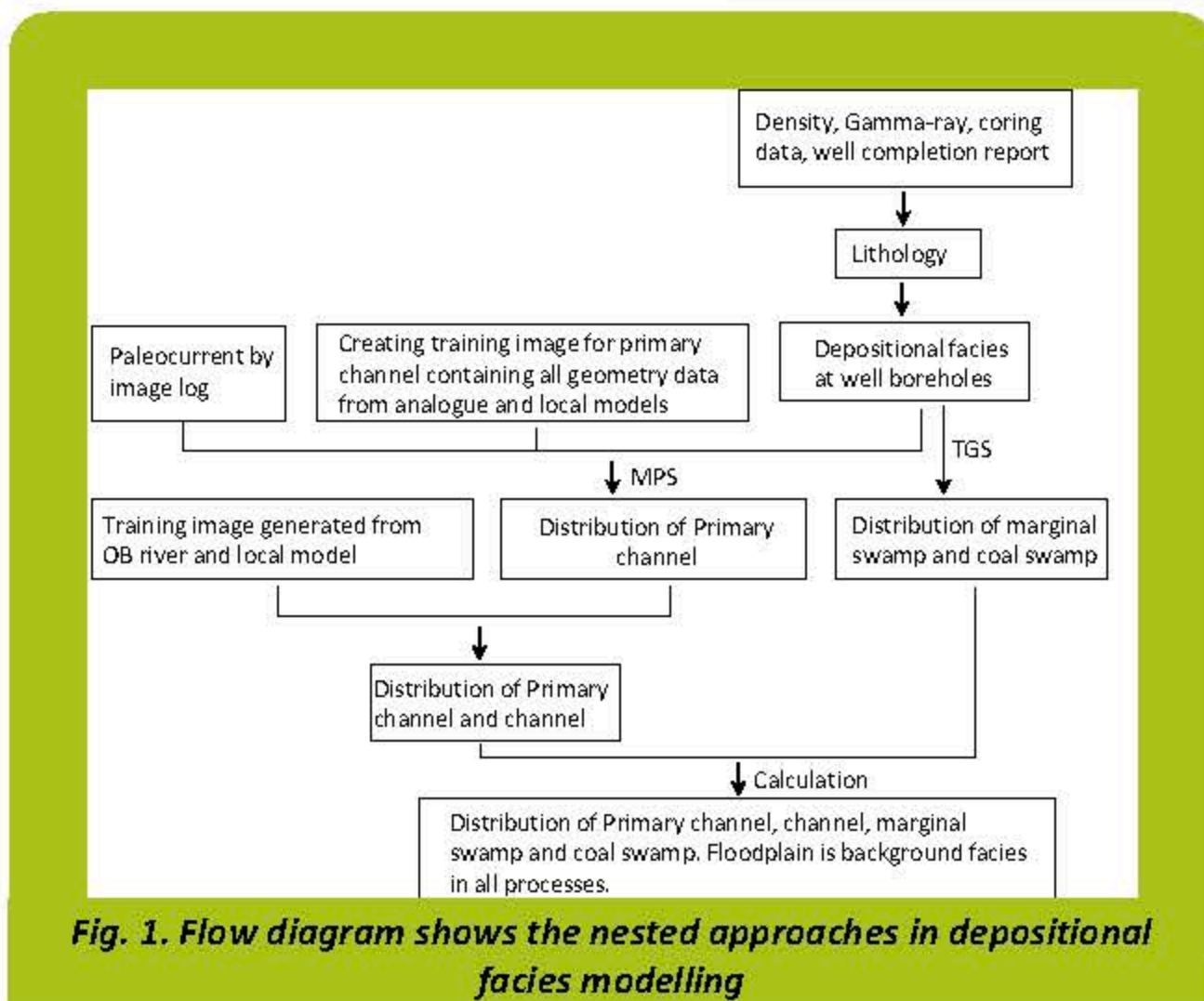
# SURAT SUPERMODEL II – AN INTEGRATED GEOLOGICAL FRAMEWORK FOR CSG

Fengde Zhou, School of Earth Sciences, UQ; Stephen Tyson, Centre for Coal Seam Gas, School of Earth Sciences, UQ; Joan Esterle, School of Earth Sciences, UQ

## INTRODUCTION

- A nested approach is used to model the distribution of mire (swamp) and channels (Fig. 1)
- Two local models are used to obtain the geometry parameters for preparing training images (Fig. 2)
- Isopach of sandstone thickness and paleo-flow direction from image logs are used to constrain primary channel direction in MPS (Fig. 3)
- Sandstone and coal correlation to used to understand geometry and connections (Fig. 4)
- Borehole data (Fig. 5) and training images (Fig. 6) are used in modelling as constraints; Fig. 7 shows the modelling results for Upper Juandah member of Walloon Coal Measures.

## FACIES MODELLING BY USING MPS FOR Upper Juandah



## RESULTS

