

## SUPPLEMENTARY MATERIALS TABLES

TABLE S1  
COASTAL EVOLUTION AND POSSIBLE CONTRIBUTION AT EACH SECTION OF KARACHI COAST

ENVISAT/ASAR SLC List		
17 September 2004	31 December 2004	11 March 2005
15 April 2005	20 May 2005	24 June 2005
29 July 2005	02 September 2005*	11 November 2005
20 January 2006	24 February 2006	31 March 2006
22 September 2006	27 October 2006	09 February 2007
16 March 2007	20 April 2007	12 October 2007
25 January 2008	13 June 2008	18 July 2008
22 August 2008	26 September 2008	31 October 2008
05 December 2008	09 January 2009	25 December 2009
05 March 2010	09 April 2010	14 May 2010
18 June 2010	23 July 2010	01 October 2010

TABLE S2  
SENTINEL-1A SLC IMAGES USED FOR GROUND DISPLACEMENTS MONITORING DURING 2014-2016 PERIOD OVER KARACHI (\*MASTER IMAGE)  
S1A IW SLC (sub-swath 1 & 2, path 42 frame 74,75,76)

08 October 2014	11 July 2015	07 March 2016
01 November 2014	28 August 2015*	31 March 2016
25 November 2014	21 September 2015	24 April 2016
12 January 2015	15 October 2015	11 June 2016
05 February 2015	02 December 2015	22 August 2016
30 April 2015	26 December 2015	15 September 2016
24 May 2015	19 January 2016	09 October 2016
17 June 2015	12 February 2016	

TABLE S3  
DETAILS OF LANDSAT IMAGES USED IN THE STUDY FOR COASTLINE DELINEATION AND EROSION ESTIMATION

Data	Sensor	Acquisition Time	Acquisition Date	Tidal Height	Source
Landsat Images	TM	05:26:11 UTC	3-Apr-89	1.90 m	USGS ( <a href="https://espa.cr.usgs.gov/">https://espa.cr.usgs.gov/</a> )
	TM	05:41:59 UTC	6-Apr-99	2.5 m	
	TM	05:44:13 UTC	10-Apr-09	0.1 m	
	OLI	05:56:49 UTC	2-Mar-18	2.80 m	

SUPPLEMENTARY MATERIALS FIGURES

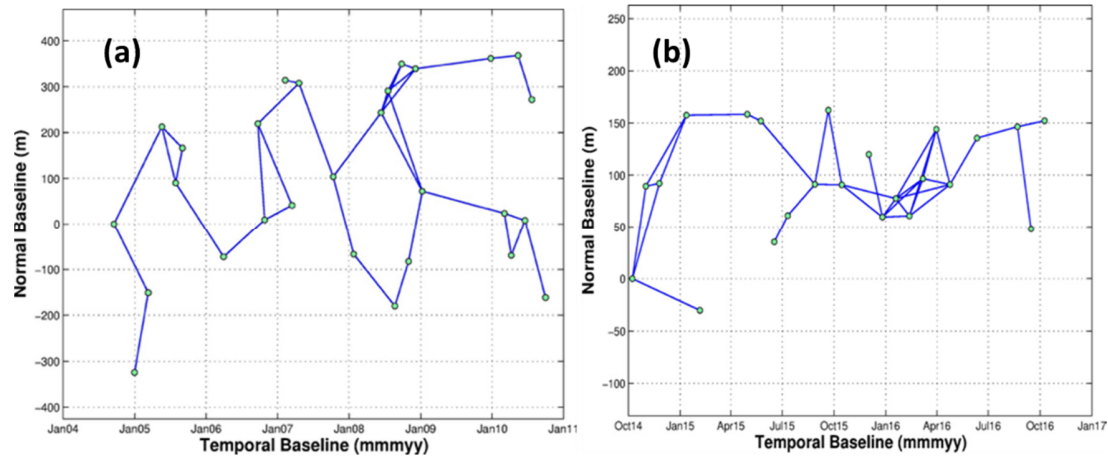


Figure S1 Perpendicular and temporal baselines of the selected interferometric pairs (blue line) (a) ENVISAT ASAR, and (b) Sentinel-1A IW SLC (green dots).

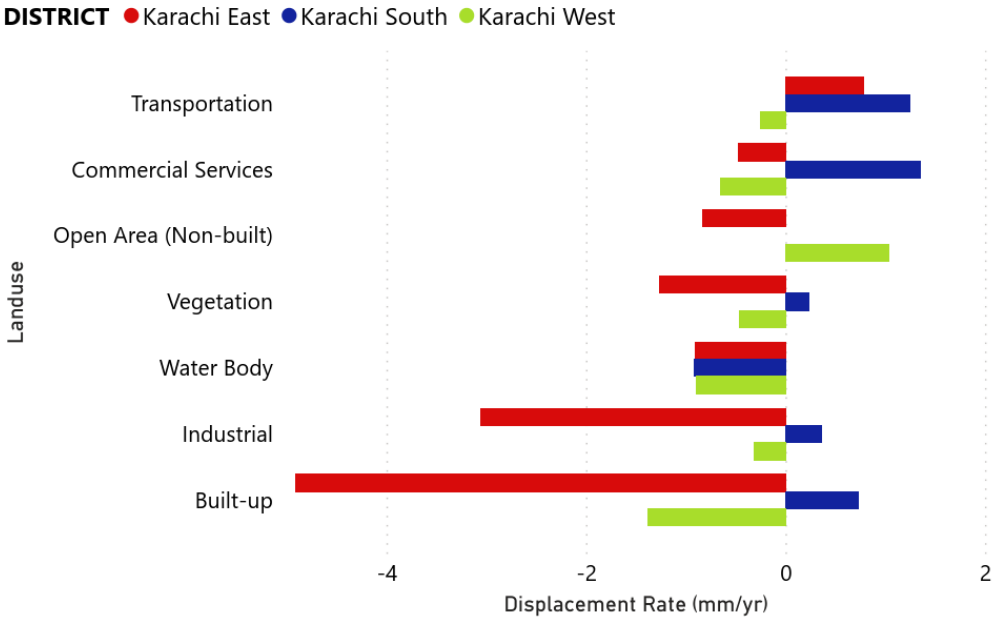


Figure S2 Ground displacement in different land use land cover areas in the study area.

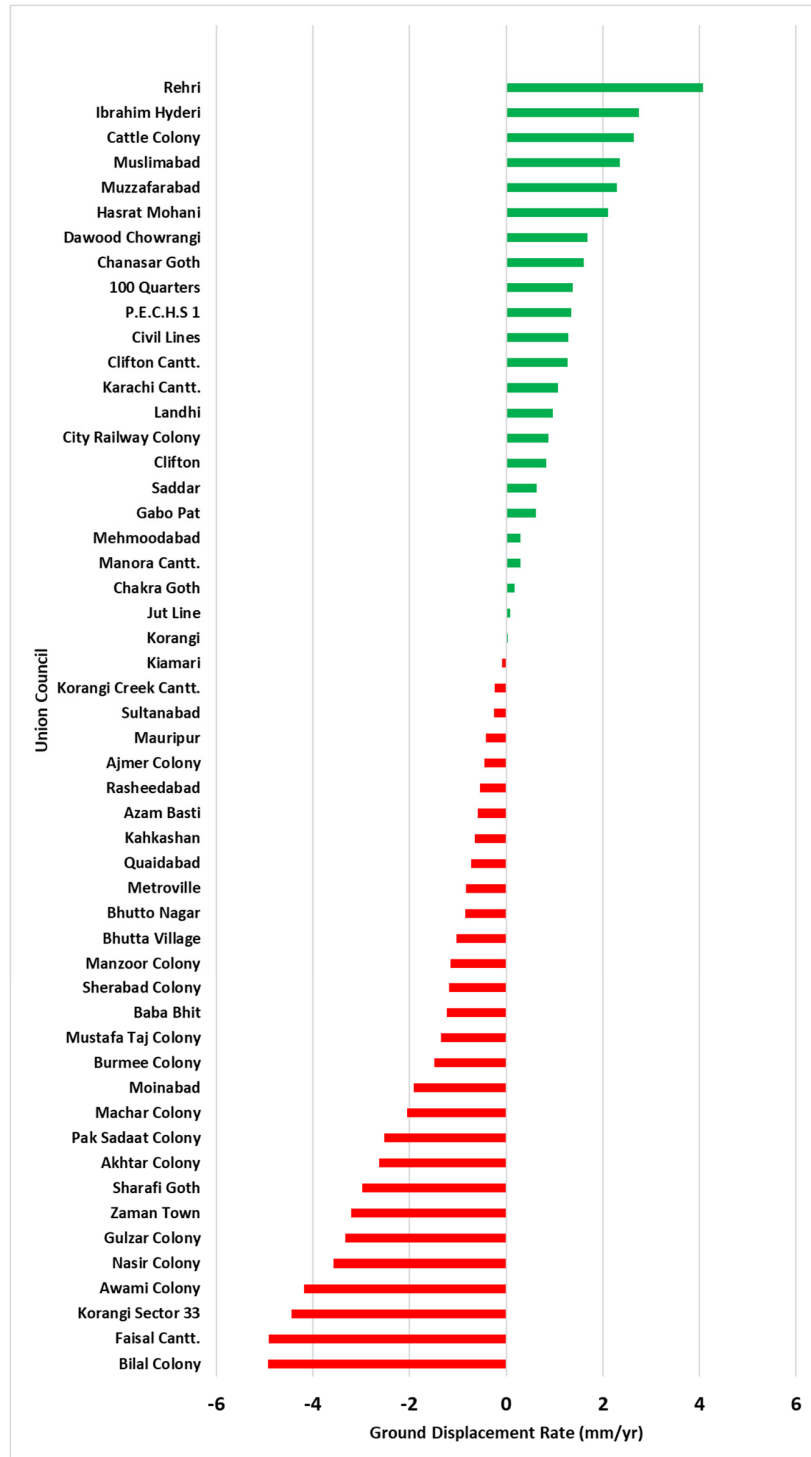


Figure S3 Union council wise localized assessment on ground displacement.