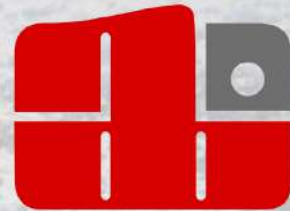
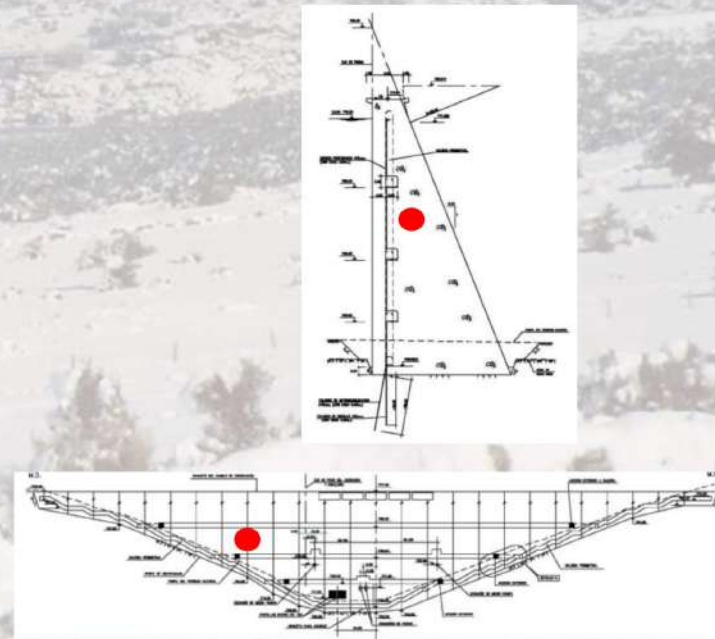


# JORNADAS DE AUSCULTACIÓN 2023 (III)

## DEFORMACIONES EN LAS PRESAS DE FÁBRICA



### INYECCIÓN DE JUNTAS IMPONE RESTRICCIÓN DE MOVIMIENTO

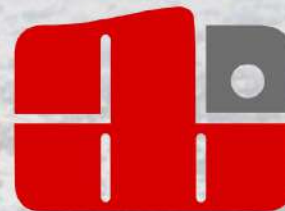


Inyección de juntas en primer trimestre 2004  
permite formación de arcos de descarga hacia los estribos

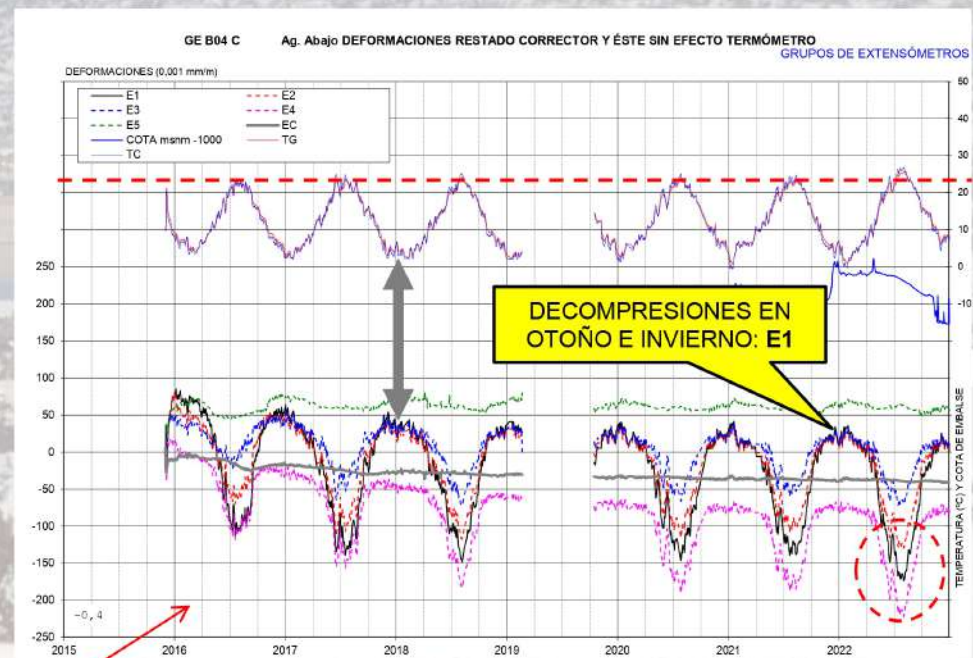
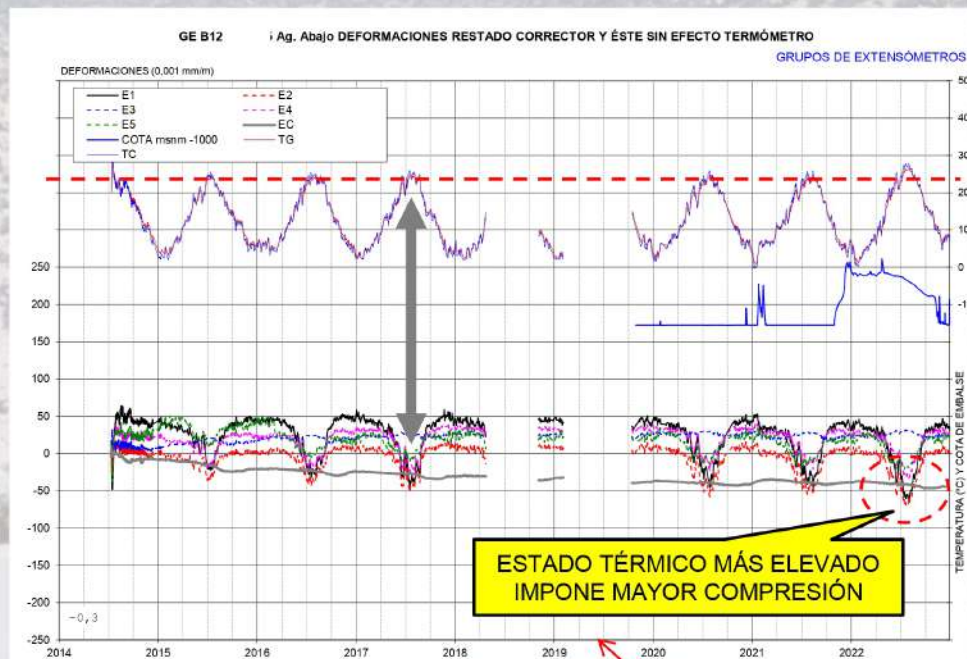


# JORNADAS DE AUSCULTACIÓN 2023 (III)

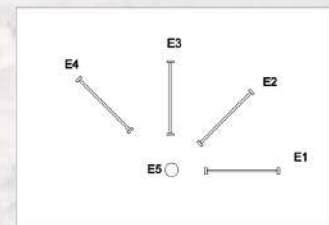
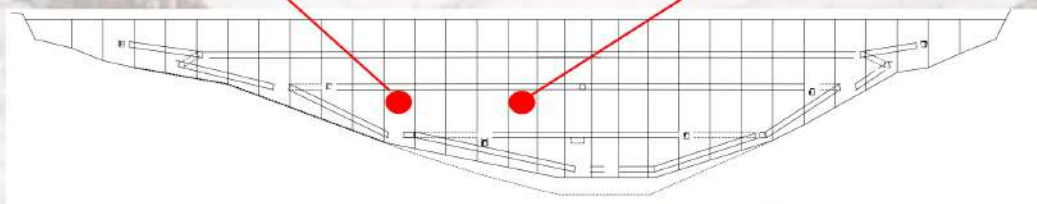
## DEFORMACIONES EN LAS PRESAS DE FÁBRICA



### FACTOR TÉRMICO DETERMINANTE EN LAS DEFORMACIONES

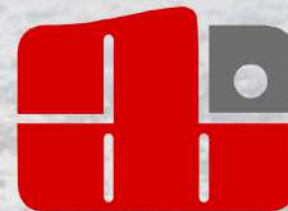


Mayores esfuerzos horizontales en centro del cauce al estar los bloques más constreñidos  
(Presa Gravedad)

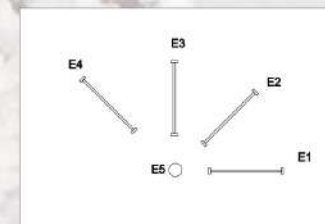
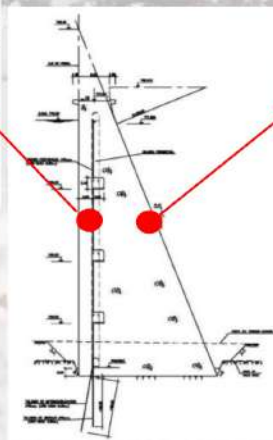
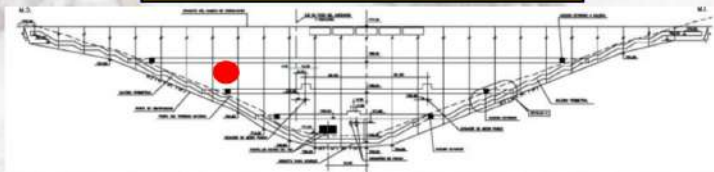
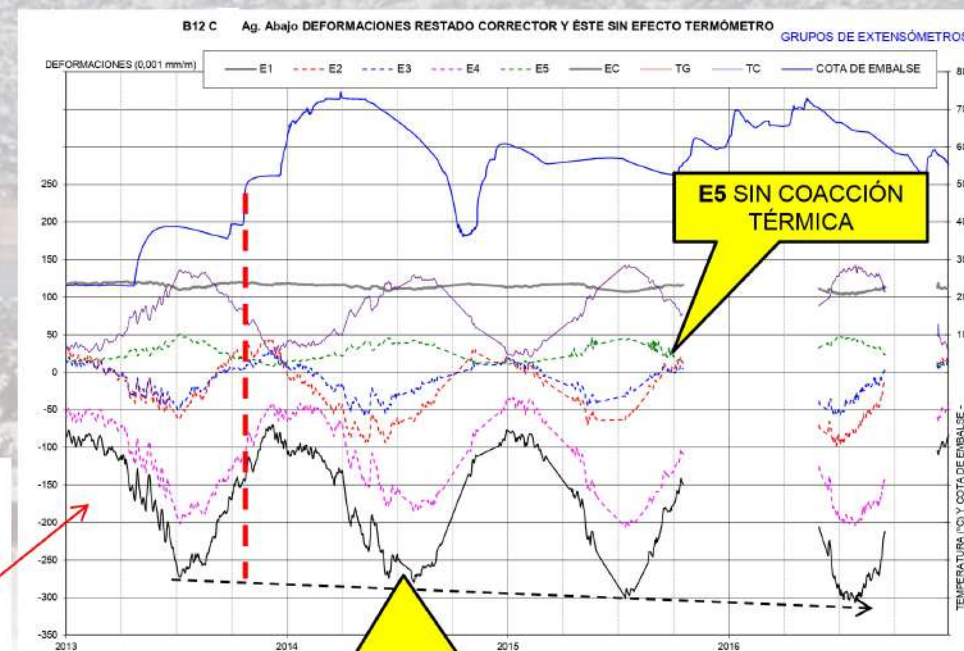
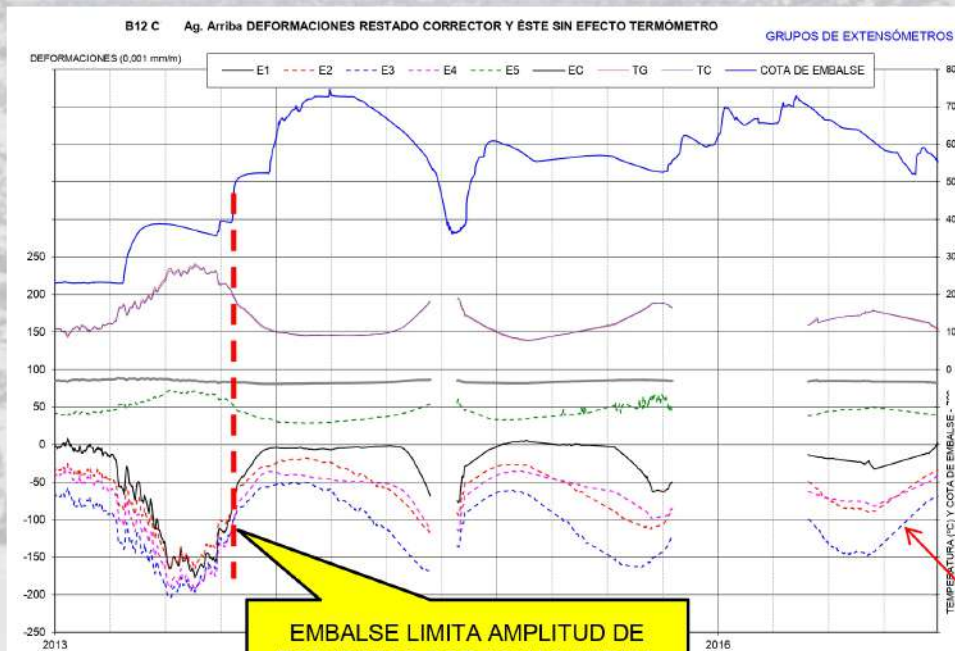


# JORNADAS DE AUSCULTACIÓN 2023 (III)

## DEFORMACIONES EN LAS PRESAS DE FÁBRICA



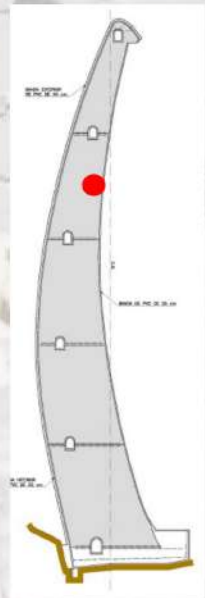
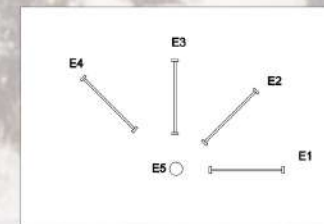
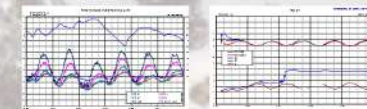
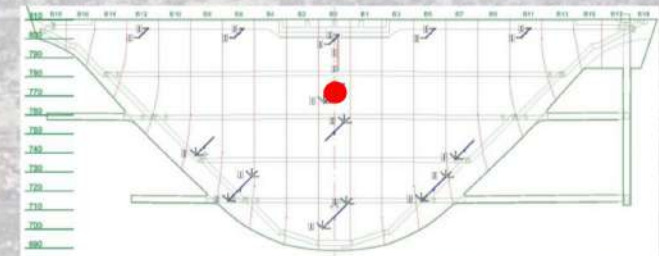
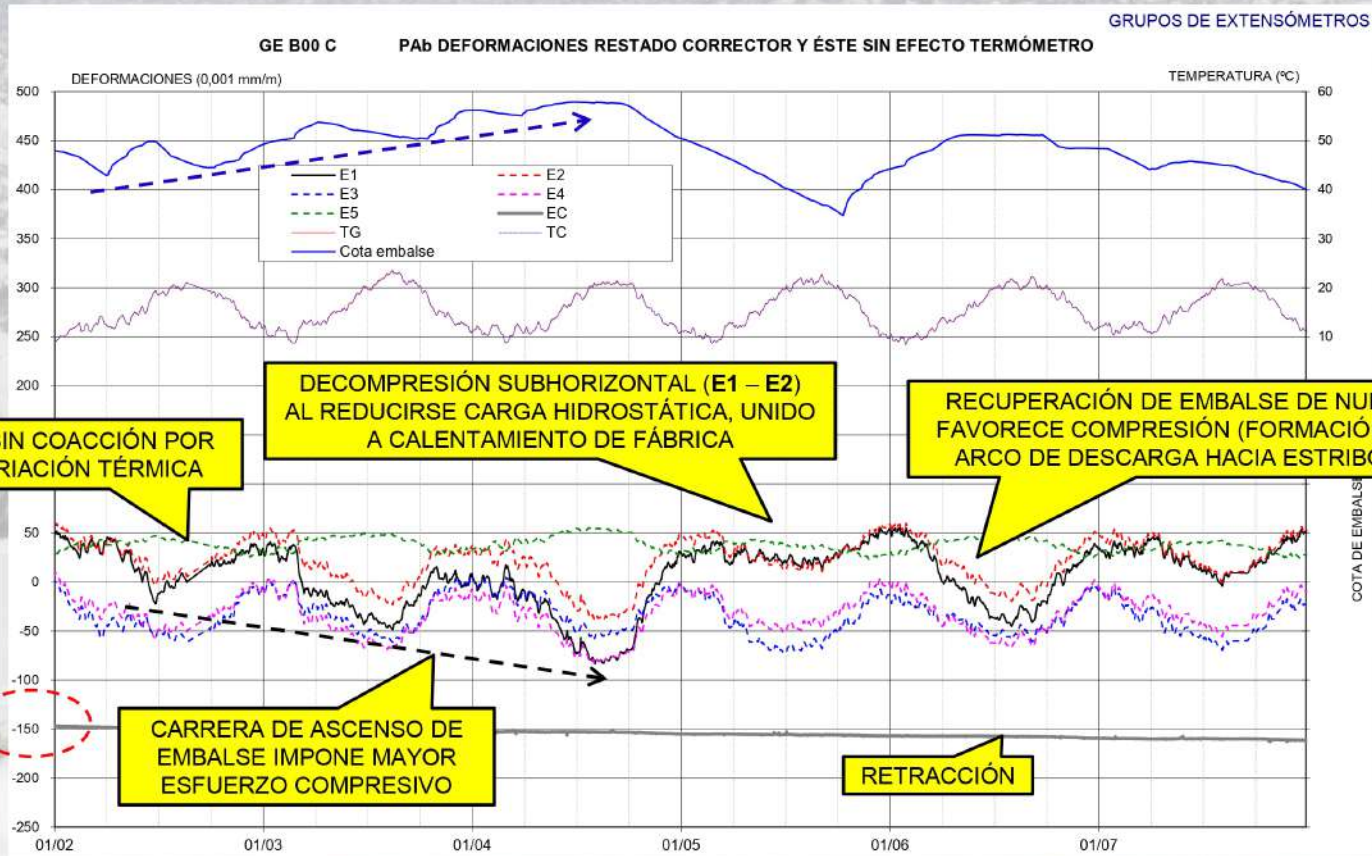
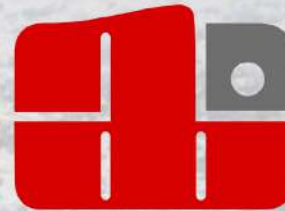
### LLEGADA DEL AGUA (EMBALSE) PROTEGE A LA FÁBRICA



# JORNADAS DE AUSCULTACIÓN 2023 (III)

## DEFORMACIONES EN LAS PRESAS DE FÁBRICA

### INCREMENTO DE CARGA HIDROSTÁTICA EN BÓVEDA

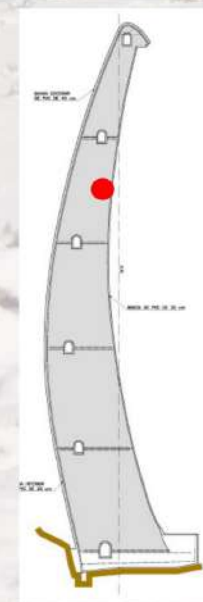
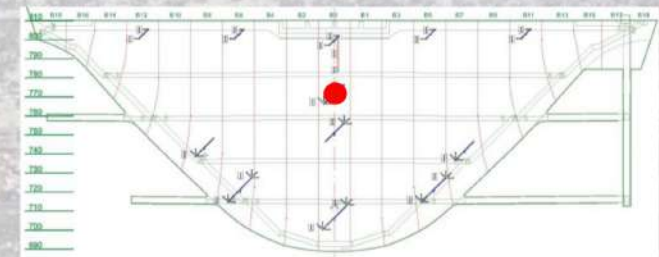
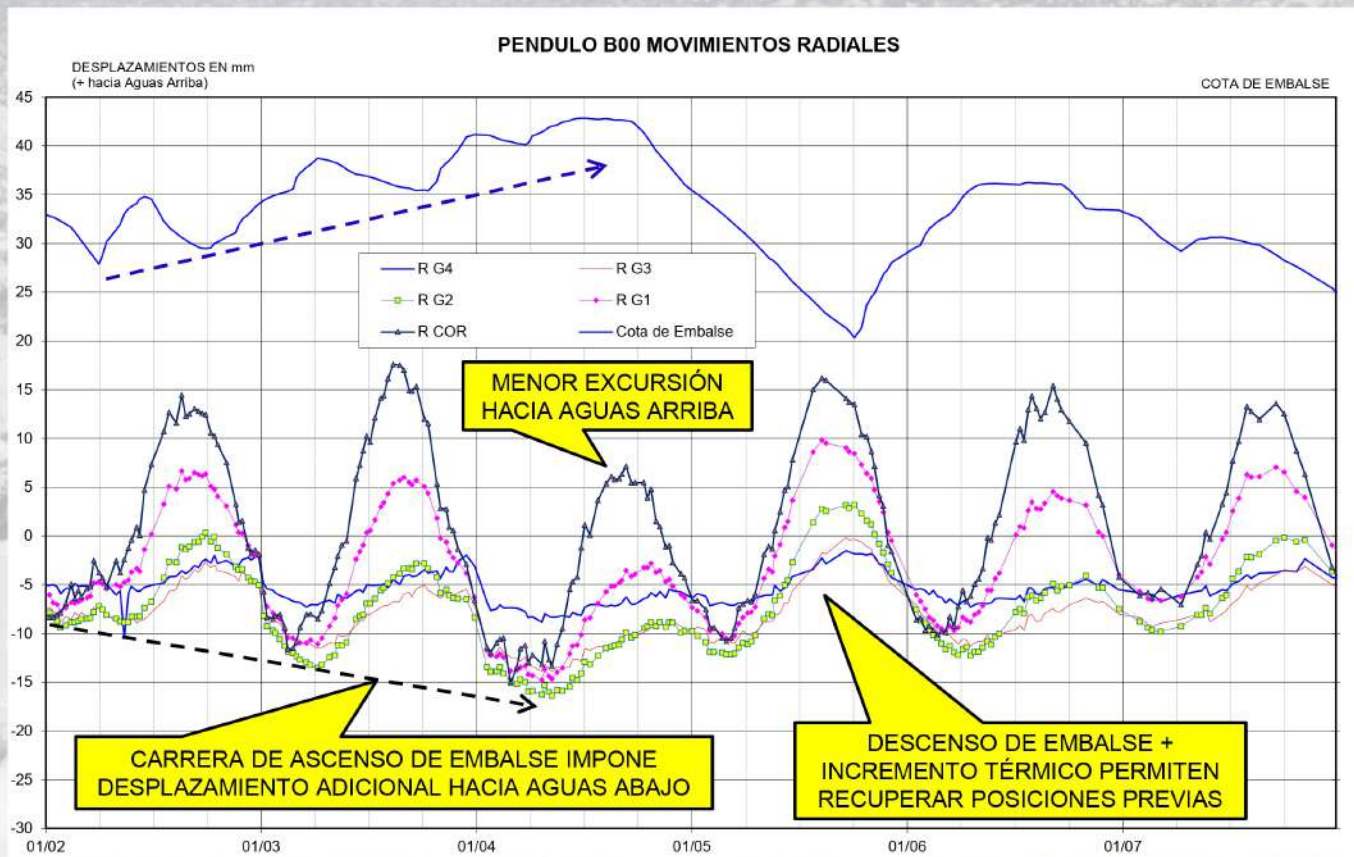
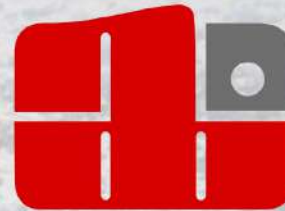


Respuesta depende de morfología del bloque, encuadre dentro de bóveda, protección agentes atmosféricos, ...

# JORNADAS DE AUSCULTACIÓN 2023 (III)

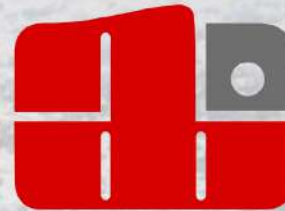
## DEFORMACIONES EN LAS PRESAS DE FÁBRICA

### INCREMENTO DE CARGA HIDROSTÁTICA EN BÓVEDA

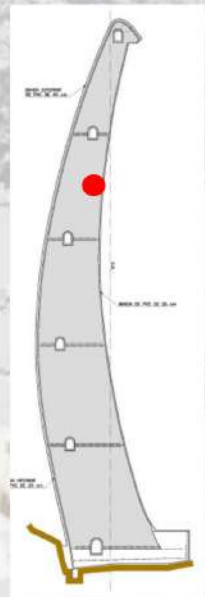
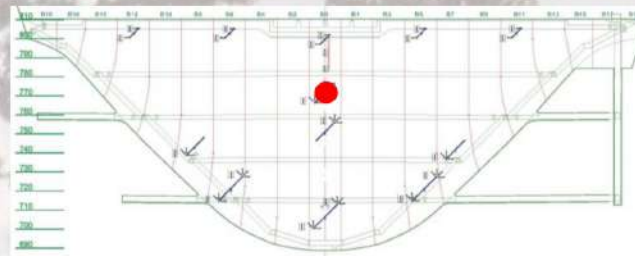


# JORNADAS DE AUSCULTACIÓN 2023 (III)

## DEFORMACIONES EN LAS PRESAS DE FÁBRICA



### INCREMENTO DE CARGA HIDROSTÁTICA EN BÓVEDA

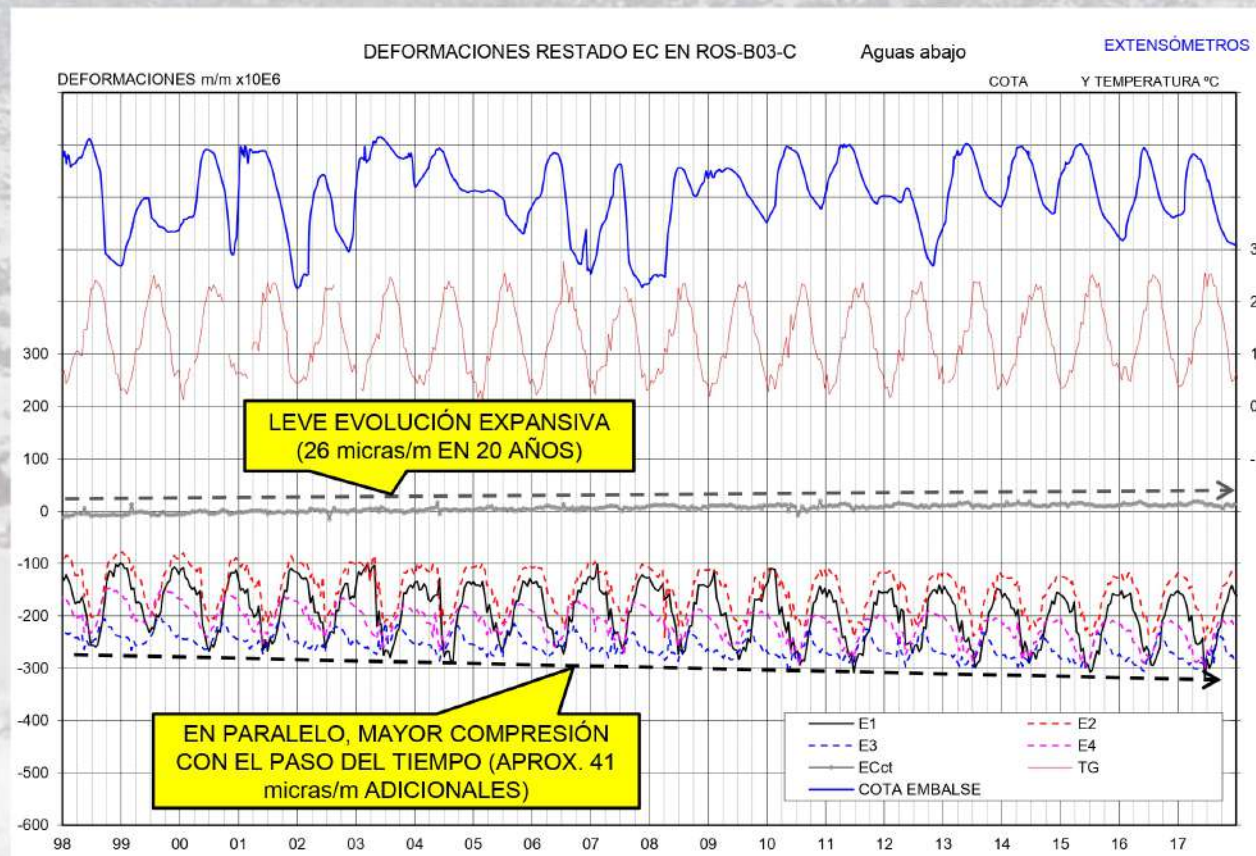
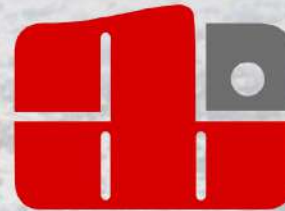


Distinto resultado en juntas formadas por bloque B00 durante inyección a final de obra

# JORNADAS DE AUSCULTACIÓN 2023 (III)

## DEFORMACIONES EN LAS PRESAS DE FÁBRICA

EVOLUCIÓN EXPANSIVA EN HORMIGÓN QUE ENVUELVE AL GRUPO



Potenciales excursiones adicionales hacia aguas arriba del bloque

